

|                                 |
|---------------------------------|
| <b>17.1 Sonstige Unterlagen</b> |
|---------------------------------|

siehe Anhang:

### Visualisierung Denkmalschutz

Das Gutshaus zum Weinberg 18 in Ruthen ist nicht mehr vorhanden. Hier wurde ein Neubau errichtet. Daher wurde für dieses vorgegebene Denkmal keine Visualisierung durchgeführt.

Anlagen:

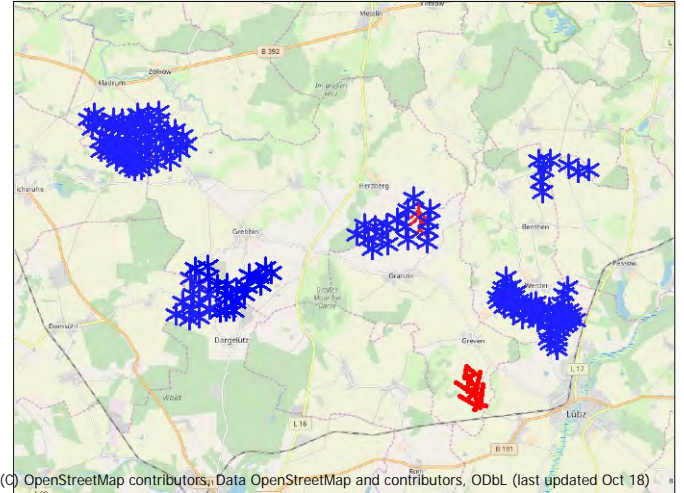
- VISUAL\_Granzin, Visualisierung; FP01, Beckendorf, Gutshaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP02, Benthen, Kirche; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP03, Benthen, Gutshaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP04-05, Dargelütz, Friedhof-Kirchturm; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP06, Dargelütz, Gutshaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP07-08, Grambow, Park-Gutshaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP09, Granzin, Pfarrhaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP10, Granzin, Kirche; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP11, Grebbin, Kirche; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP12, Grebbin, Pfarrhaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP13, Grebbin, Windmühle; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP14, Greven, Kirche; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP15-16, Greven, Park-Gutshaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP17, Herzberg, Kirche; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP18-19, Herzberg, Park-Gutshaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP20, Kossebade, Kirche; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP21, Lancken, Pfarrhaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP22, Lancken, Gutshaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP23, Lancken, Kirche; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP24, Lenschow, Park; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP25, Lutheran, Kirche; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP26-27-28, Mestlin, Gutshaus-Kirche-Pfarrhaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP29, Mestlin, Platzanlage; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP30, Mühlenhof, Gutshaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP31, Passow, Kirche; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP32-33, Passow, Gutshaus-Park; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP35, Sehlsdorf, Gutshaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP36, Stralendorf, Fangelturn; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP37, Vimfow, Gutshaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP38, Welzin, Gutshaus; 2022-08-24.pdf
- VISUAL\_Granzin, Visualisierung; FP39, Woeten, Gutshaus; 2022-08-24.pdf

Projekt: 0108-Granzin Beschreibung: Die enosite GmbH übernimmt hierfür keine Gewähr.

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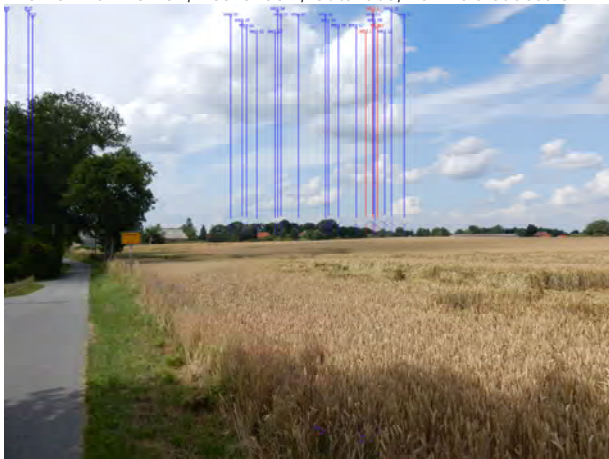
## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP01, Beckendorf, Gutshaus; 2022-08-24



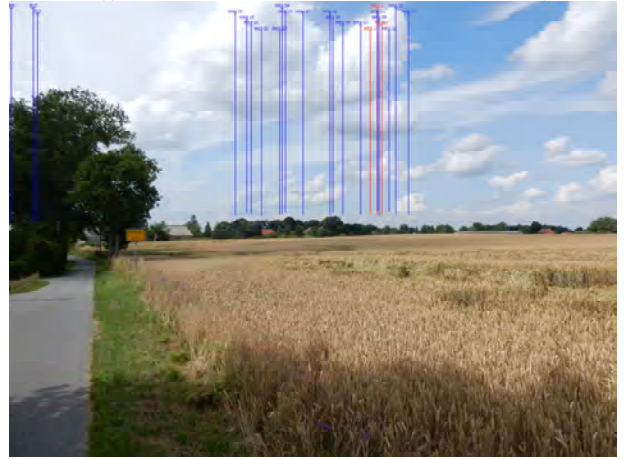
Maßstab 1:250.000  
 ▲ Neue WEA    \* Existierende WEA    📷 Kamera

FP01.01 Ka FP01.01, Beckendorf, Gutshaus, von Feld südöstlich



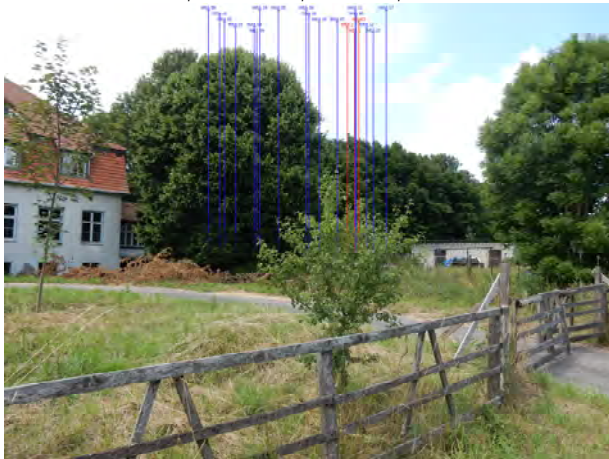
UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken teilweise bewölkt (4/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt: 697.896 5.928.958 61.5 Sichtbarkeit: Normal DSCN5029.JPG  
 Zielpunkt: 697.621 5.928.465 66.5 Sonne Normal Geschichtsfeld: 67.3°x53.1° Brennweite: 26 mm Film: 35x26 mm  
 Foto-Richtung: 334° Windricht.: 0° Fotobeschreibung: FP01.01 Ka FP01.01, Beckendorf, Gutshaus, von Feld südöstlich

FP01.01 Ka(r) FP01.01, Beckendorf, Gutshaus, von Feld südöstlich (fotorealistisch)



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken teilweise bewölkt (4/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt: 697.896 5.928.958 61.5 Sichtbarkeit: Normal DSCN5029.JPG  
 Zielpunkt: 697.621 5.928.465 66.5 Sonne Normal Geschichtsfeld: 67.3°x53.1° Brennweite: 26 mm Film: 35x26 mm  
 Foto-Richtung: 334° Windricht.: 0° Fotobeschreibung: FP01.01 Ka(r) FP01.01, Beckendorf, Gutshaus, von Feld südöstlich (fotorealistisch)

FP01.02 Ka FP01.02, Beckendorf, Gutshaus, von Dorfstraße



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken teilweise bewölkt (4/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt: 697.721 5.928.343 61.5 Sichtbarkeit: Normal DSCN5050.JPG  
 Zielpunkt: 697.616 5.928.557 71.6 Sonne Normal Geschichtsfeld: 69.4°x54.9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung: 336° Windricht.: 0° Fotobeschreibung: FP01.02 Ka FP01.02, Beckendorf, Gutshaus, von Dorfstraße



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP01, Beckendorf, Gutshaus; 2022-08-24

### WEA-Platzierung

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |               |            |
|------|-------------|------|------------|----------------------|--------------|-------------------|-----------|--------------------|---------------|------------|
|      | Aktuell     |      |            |                      |              |                   |           | FP01.01 Ka         | FP01.01 Ka(r) | FP01.02 Ka |
|      |             |      |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]           | [m]        |
| B01  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 10.507             | 10.507        | 10.197     |
| B02  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 10.164             | 10.164        | 9.847      |
| B03  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 9.995              | 9.995         | 9.686      |
| B04  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 8.808              | 8.808         | 8.480      |
| B05  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 8.512              | 8.512         | 8.181      |
| B06  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 9.607              | 9.607         | 9.303      |
| B07  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 8.342              | 8.342         | 8.017      |
| B08  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 8.692              | 8.692         | 8.375      |
| B09  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 9.326              | 9.326         | 9.017      |
| B10  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 8.964              | 8.964         | 8.656      |
| B11  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 8.661              | 8.661         | 8.354      |
| B12  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 8.493              | 8.493         | 8.150      |
| B13  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 8.241              | 8.241         | 7.901      |
| B14  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 10.172             | 10.172        | 9.874      |
| B15  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.728              | 9.728         | 9.436      |
| B16  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 10.223             | 10.223        | 9.937      |
| B17  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.948              | 9.948         | 9.668      |
| B18  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.551              | 9.551         | 9.273      |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 10.452             | 10.452        | 10.177     |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 10.124             | 10.124        | 9.854      |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.791              | 9.791         | 9.526      |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 10.547             | 10.547        | 10.286     |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 10.071             | 10.071        | 9.811      |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 10.528             | 10.528        | 10.227     |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 9.212              | 9.212         | 8.932      |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 9.015              | 9.015         | 8.732      |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 8.785              | 8.785         | 8.500      |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 8.828              | 8.828         | 8.531      |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 9.037              | 9.037         | 8.739      |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 9.252              | 9.252         | 8.954      |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.392              | 8.392         | 8.051      |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.109              | 8.109         | 7.776      |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 7.736              | 7.736         | 7.403      |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 7.409              | 7.409         | 7.083      |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.468              | 8.468         | 8.138      |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.511              | 8.511         | 8.202      |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.436              | 8.436         | 8.140      |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.655              | 8.655         | 8.370      |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.751              | 3.751         | 3.501      |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.833              | 3.833         | 3.602      |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.407              | 3.407         | 3.248      |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.656              | 3.656         | 3.331      |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.198              | 3.198         | 3.057      |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 4.112              | 4.112         | 3.939      |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 4.069              | 4.069         | 3.883      |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.466              | 3.466         | 3.224      |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.658              | 3.658         | 3.431      |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.977              | 3.977         | 3.764      |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.890              | 3.890         | 3.701      |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.833              | 3.833         | 3.661      |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.593              | 3.593         | 3.413      |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 3.448              | 3.448         | 3.130      |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 3.750              | 3.750         | 3.447      |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 3.598              | 3.598         | 3.313      |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 4.378              | 4.378         | 4.181      |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 4.667              | 4.667         | 4.463      |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 4.167              | 4.167         | 4.028      |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 4.086              | 4.086         | 3.929      |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 3.588              | 3.588         | 3.334      |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 3.579              | 3.579         | 3.272      |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 3.912              | 3.912         | 3.657      |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 3.723              | 3.723         | 3.382      |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP01, Beckendorf, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      | Hersteller     | Typ                     | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |               |            |
|---------|-------------|------|----------------|-------------------------|--------------|-------------------|-----------|--------------------|------------|---------------|------------|
| Aktuell | Neu         | Ja   |                |                         |              |                   |           | Nein               | FP01.01 Ka | FP01.01 Ka(r) | FP01.02 Ka |
|         |             |      |                |                         |              | [kW]              | [m]       | [m]                | [m]        | [m]           | [m]        |
| WE25    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 4.120              | 4.120      | 3.786         |            |
| WE26    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.405              | 3.405      | 3.071         |            |
| WE27    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.875              | 3.875      | 3.545         |            |
| WE28    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.878              | 3.878      | 3.530         |            |
| WE29    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 4.348              | 4.348      | 4.001         |            |
| WE30    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.978              | 3.978      | 3.660         |            |
| WE31    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.689              | 3.689      | 3.553         |            |
| WE32    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.900              | 3.900      | 3.746         |            |
| WE33    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.414              | 3.414      | 3.197         |            |
| WE34    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.336              | 3.336      | 3.032         |            |
| WE35    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 4.035              | 4.035      | 3.686         |            |
| WE36    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.555              | 3.555      | 3.207         |            |
| WE37    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.826              | 3.826      | 3.558         |            |
| WE38    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.684              | 3.684      | 3.329         |            |
| WE39    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 4.893              | 4.893      | 4.685         |            |
| WE40    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.795              | 3.795      | 3.478         |            |
| WE41    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.182              | 3.182      | 3.098         |            |
| WE42    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 4.359              | 4.359      | 4.196         |            |
| WE43    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.389              | 3.389      | 3.271         |            |
| WE44    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.266              | 3.266      | 3.164         |            |
| WE45    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.139              | 3.139      | 3.018         |            |
| WE46    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.982              | 3.982      | 3.643         |            |
| WE47    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.526              | 3.526      | 3.395         |            |
| WE48    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 4.258              | 4.258      | 4.130         |            |
| WE49    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 4.011              | 4.011      | 3.874         |            |
| WE50    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 4.298              | 4.298      | 4.148         |            |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.851              | 3.851      | 3.713         |            |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600        | 116,8             | 140,6     | 3.256              | 3.256      | 2.986         |            |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.608              | 6.608      | 6.186         |            |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.192              | 6.192      | 5.769         |            |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000        | 160,0             | 165,0     | 6.807              | 6.807      | 6.386         |            |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 7.172              | 7.172      | 6.756         |            |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.693              | 6.693      | 6.279         |            |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.918              | 6.918      | 6.500         |            |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.547              | 6.547      | 6.129         |            |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.765              | 6.765      | 6.344         |            |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600        | 150,0             | 169,0     | 6.799              | 6.799      | 6.377         |            |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.970              | 6.970      | 6.547         |            |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 7.257              | 7.257      | 6.835         |            |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 7.011              | 7.011      | 6.600         |            |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 13.932             | 13.932     | 13.578        |            |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.362              | 6.362      | 5.949         |            |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 15.872             | 15.872     | 15.512        |            |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.723              | 5.723      | 5.301         |            |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 16.106             | 16.106     | 15.748        |            |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.139             | 14.139     | 13.784        |            |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.083              | 6.083      | 5.663         |            |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.403             | 14.403     | 14.048        |            |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.598             | 14.598     | 14.245        |            |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.361              | 6.361      | 5.941         |            |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.793             | 14.793     | 14.441        |            |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.033              | 6.033      | 5.610         |            |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.989             | 14.989     | 14.638        |            |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 15.185             | 15.185     | 14.836        |            |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.719              | 6.719      | 6.301         |            |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.465              | 6.465      | 6.042         |            |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 15.287             | 15.287     | 14.931        |            |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 15.092             | 15.092     | 14.735        |            |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000        | 162,0             | 169,0     | 6.219              | 6.219      | 5.800         |            |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 13.726             | 13.726     | 13.372        |            |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700        | 149,0             | 125,4     | 15.814             | 15.814     | 15.458        |            |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 15.653             | 15.653     | 15.293        |            |

(Fortsetzung nächste Seite)...

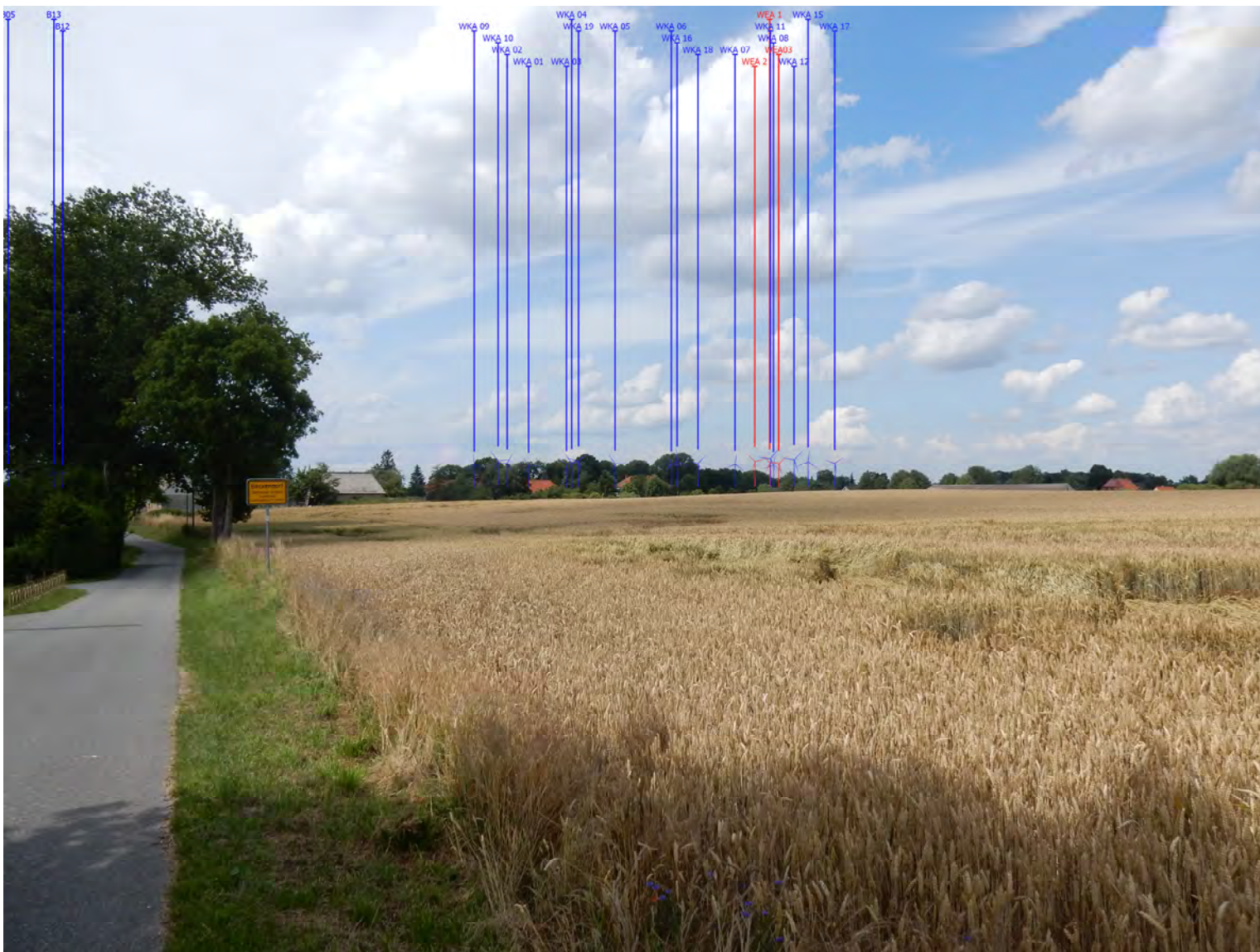
## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP01, Beckendorf, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller | Typ       | Nennleistung         | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |               |            |        |
|---------|-------------|------------|-----------|----------------------|-------------------|-----------|--------------------|---------------|------------|--------|
| Aktuell | Nein        |            |           |                      |                   |           | FP01.01 Ka         | FP01.01 Ka(r) | FP01.02 Ka |        |
|         |             |            |           | [kW]                 | [m]               | [m]       | [m]                | [m]           | [m]        |        |
| WKA 21  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 14.469        | 14.469     | 14.089 |
| WKA 22  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 14.244        | 14.244     | 13.865 |
| WKA 23  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 13.836        | 13.836     | 13.459 |
| WKA 24  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 13.630        | 13.630     | 13.250 |
| WKA 25  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 13.339        | 13.339     | 12.959 |
| WKA 26  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.919        | 13.919     | 13.561 |
| WKA 27  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.966        | 13.966     | 13.604 |
| WKA 28  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.625        | 13.625     | 13.268 |
| WKA 29  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 14.027        | 14.027     | 13.660 |
| WKA 3   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 14.871        | 14.871     | 14.513 |
| WKA 30  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 14.171        | 14.171     | 13.801 |
| WKA 31  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.143        | 13.143     | 12.777 |
| WKA 32  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.437        | 13.437     | 13.069 |
| WKA 33  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.724        | 13.724     | 13.358 |
| WKA 34  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.069        | 13.069     | 12.696 |
| WKA 35  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.074        | 13.074     | 12.696 |
| WKA 36  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.354        | 13.354     | 12.979 |
| WKA 37  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.620        | 13.620     | 13.246 |
| WKA 38  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 14.088        | 14.088     | 13.713 |
| WKA 39  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 14.457        | 14.457     | 14.086 |
| WKA 4   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 14.664        | 14.664     | 14.305 |
| WKA 40  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 14.676        | 14.676     | 14.300 |
| WKA 41  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 14.427        | 14.427     | 14.060 |
| WKA 42  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 14.285        | 14.285     | 13.922 |
| WKA 43  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 14.218        | 14.218     | 13.860 |
| WKA 44  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 14.667        | 14.667     | 14.304 |
| WKA 46  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0     | 164,0              | 13.839        | 13.839     | 13.466 |
| WKA 47  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0     | 164,0              | 14.342        | 14.342     | 13.967 |
| WKA 48  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0     | 164,0              | 14.661        | 14.661     | 14.288 |
| WKA 49  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 14.718        | 14.718     | 14.362 |
| WKA 5   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 14.458        | 14.458     | 14.098 |
| WKA 50  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 14.924        | 14.924     | 14.569 |
| WKA 51  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 15.131        | 15.131     | 14.777 |
| WKA 52  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 15.390        | 15.390     | 15.037 |
| WKA 53  | Existierend | Ja         | eno       | eno 82 2.05-2.050    | 2.050             | 82,4      | 108,0              | 16.045        | 16.045     | 15.683 |
| WKA 54  | Existierend | Nein       | NEG MICON | NM72C/1500-1.500/400 | 1.500             | 72,0      | 80,0               | 14.925        | 14.925     | 14.551 |
| WKA 55  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200             | 92,8      | 103,0              | 14.975        | 14.975     | 14.605 |
| WKA 56  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200             | 92,8      | 103,0              | 15.207        | 15.207     | 14.840 |
| WKA 57  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200             | 92,8      | 103,0              | 15.441        | 15.441     | 15.076 |
| WKA 58  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 14.300        | 14.300     | 13.949 |
| WKA 59  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 113,5              | 14.576        | 14.576     | 14.227 |
| WKA 6   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 14.706        | 14.706     | 14.337 |
| WKA 60  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.438        | 13.438     | 13.077 |
| WKA 61  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 14.101        | 14.101     | 13.751 |
| WKA 62  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 13.888        | 13.888     | 13.537 |
| WKA 7   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 14.905        | 14.905     | 14.539 |
| WKA 8   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 15.115        | 15.115     | 14.751 |
| WKA 9   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 15.307        | 15.307     | 14.945 |





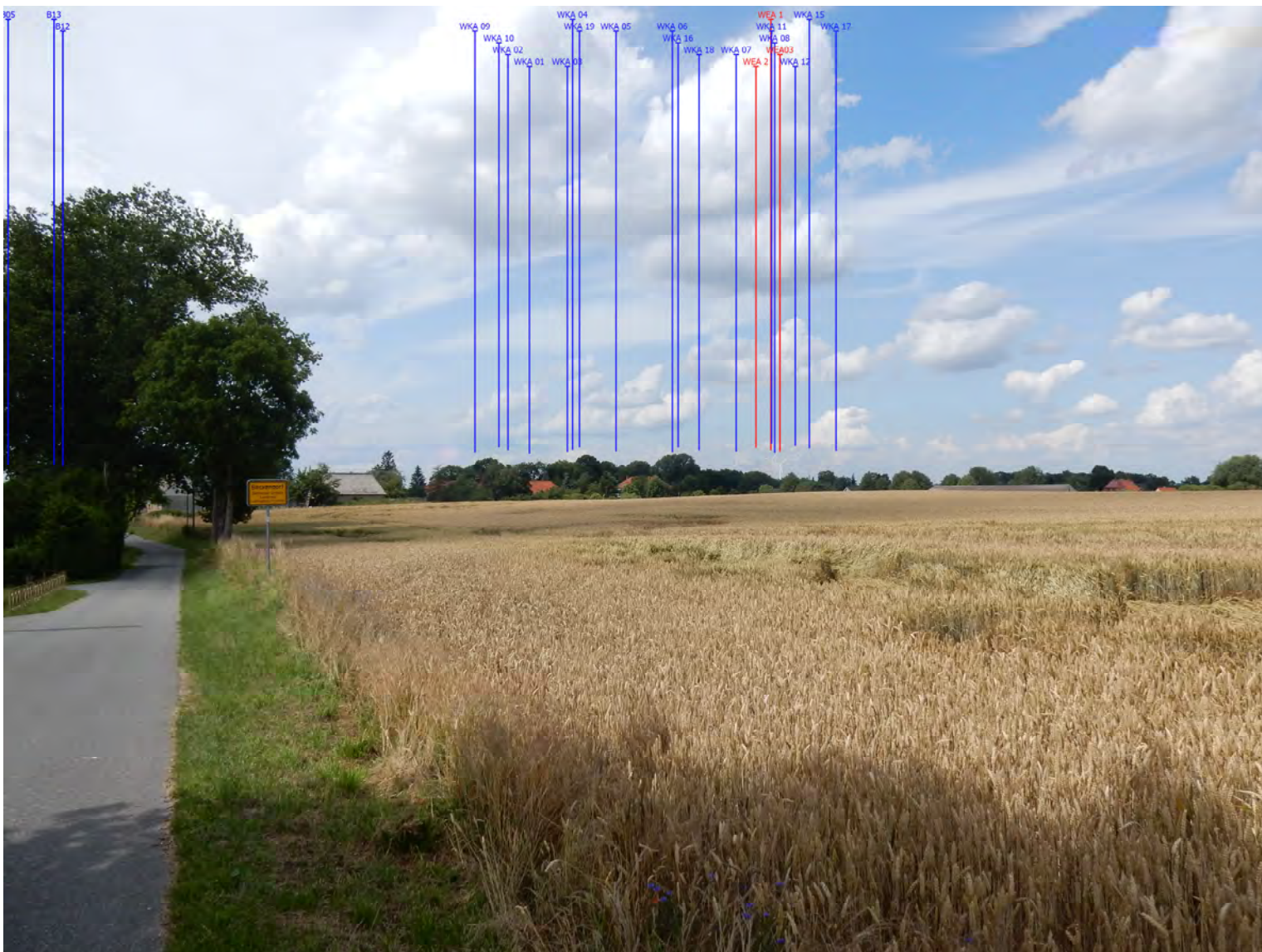
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 15:12:40  
 Gesichtsfeld: 67,3°x53,1° Brennweite: 26 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 697.896 Nord: 5.927.958  
 Windrichtung: 0° Richtung des Fotos: 334°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP01.01 Ka FP01.01, Beckendorf, Gutshaus, von Feld südöstlich

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com





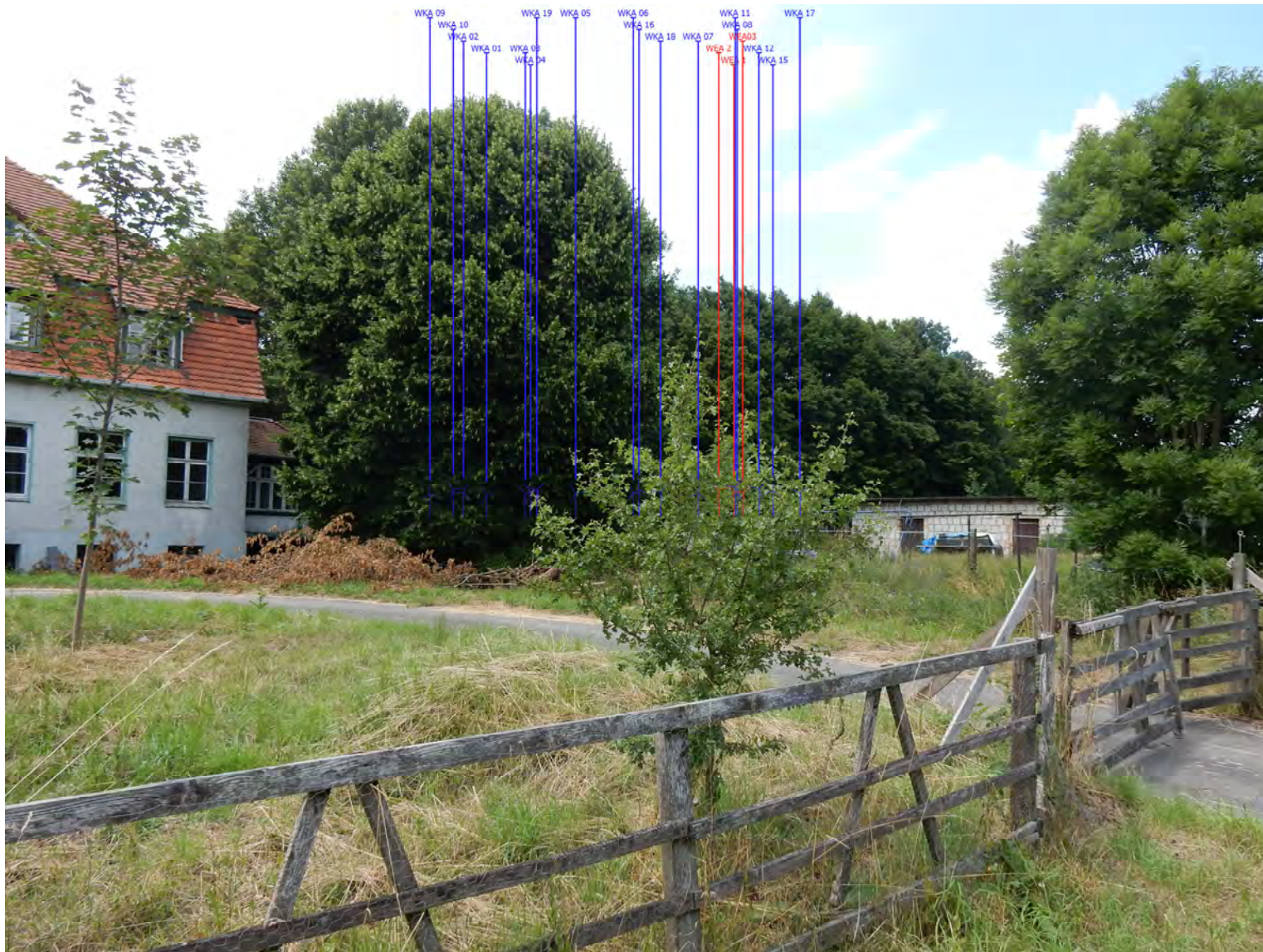
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 15:12:40  
 Gesichtsfeld: 67,3°x53,1° Brennweite: 26 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 697.896 Nord: 5.927.958  
 Windrichtung: 0° Richtung des Fotos: 334°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP01.01 Ka(r) FP01.01, Beckendorf, Gutshaus, von Feld südöstlich (fotorealistisch)

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 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 15:19:53  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 697.721 Nord: 5.928.343  
 Windrichtung: 0° Richtung des Fotos: 336°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP01.02 Ka FP01.02, Beckendorf, Gutshaus, von Dorfstraße

Erzeugt von:  
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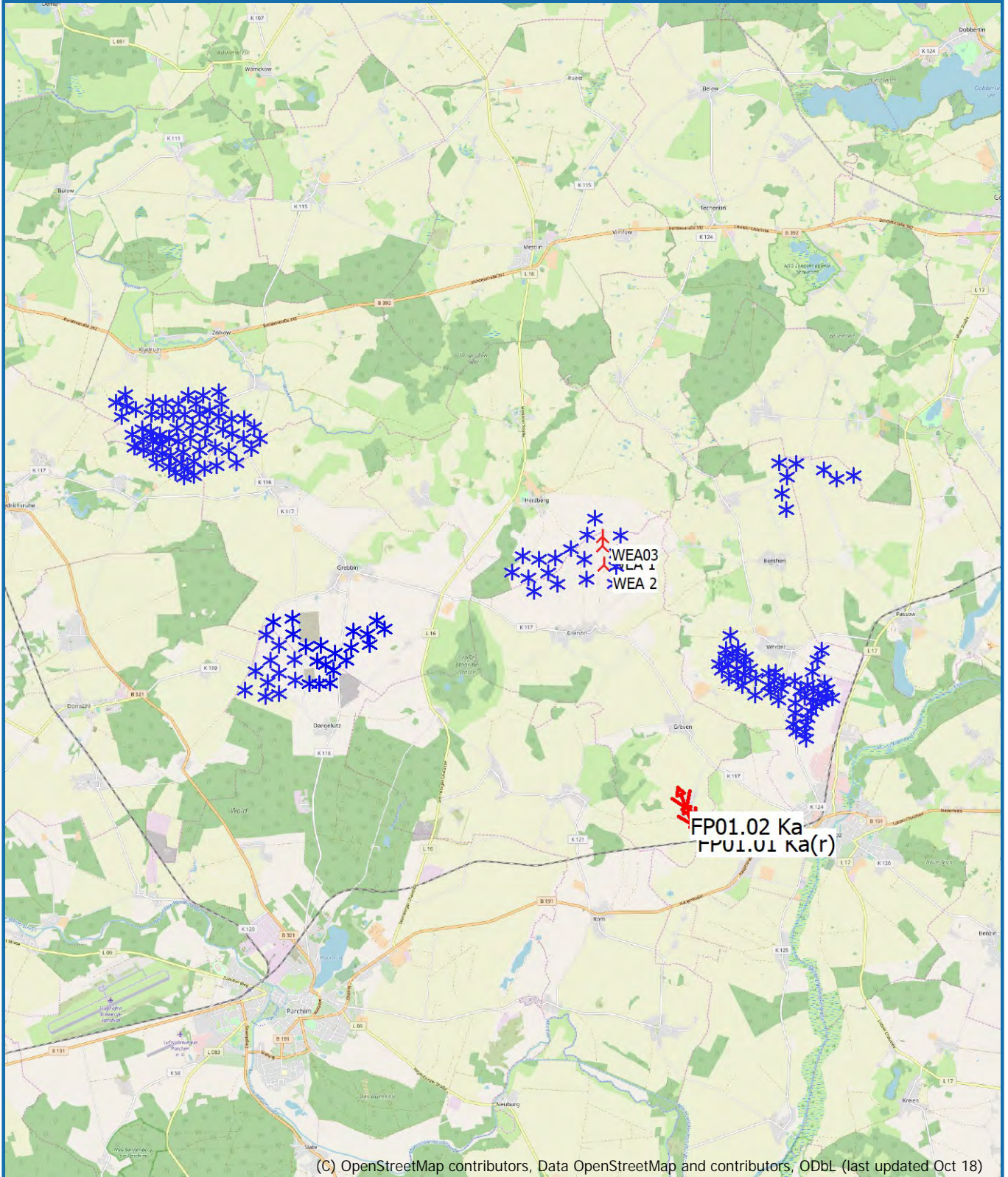
Projekt:  
0108-Granzin

Beschreibung:  
Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender:  
enosite GmbH  
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Raimund Woerl / raimund.woerl@eno-site.com  
Berechnet:  
25.08.2022 11:13/3.5.584

## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP01, Beckendorf, Gutshaus; 2022-08-24



0 2,5 5 7,5 10km

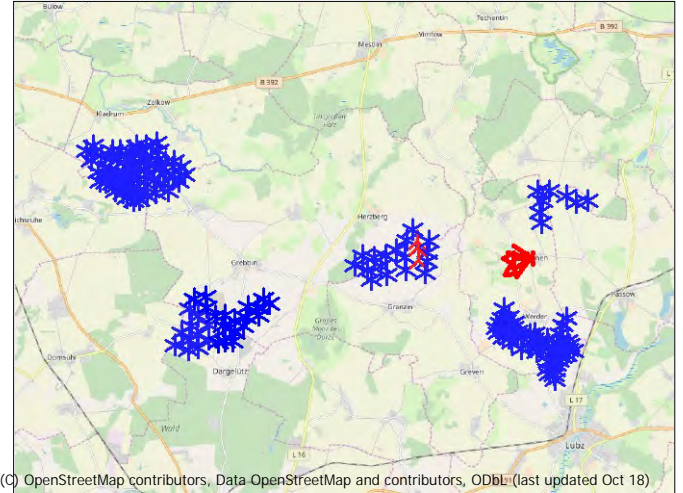
Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.932.616

Neue WEA \* Existierende WEA Kamera



## VISUAL - Hauptergebnis

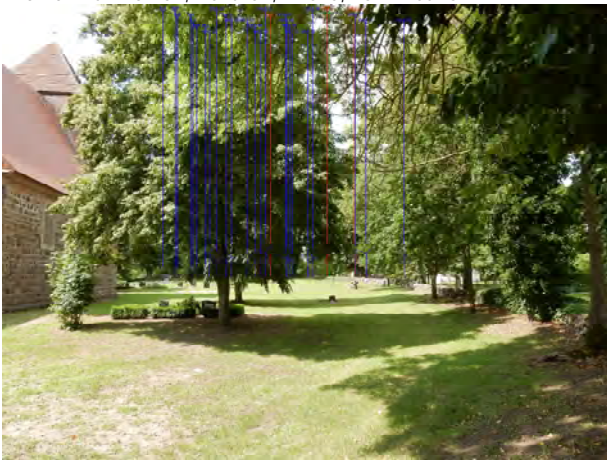
Berechnung: Granzin, Visualisierung; FP02, Benthen, Kirche; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP02.01 Ka FP02.01, Benthen, Kirche, von Friedhof



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken :teilweise bewölkt (4/8) Foto-Datel im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 699.432 5.933.982 76,3 Sichtbarkeit Normal DSCN4953.JPG  
 Zielpunkt 699.332 5.933.982 85,0 Sonne Normal  
 Foto-Richtung 273° Windricht. 0° Gesichtsfeld: 61,7°x48,2° Brennweite: 29 mm Film: 35x26 mm  
 Fotobeschreibung.: FP02.01 Ka FP02.01, Benthen, Kirche, von Friedhof

FP02.02 Ka FP02.02, Benthen, Kirche, von Friedhof



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken :teilweise bewölkt (4/8) Foto-Datel im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 699.253 5.933.941 76,5 Sichtbarkeit Normal DSCN4962.JPG  
 Zielpunkt 699.240 5.933.896 85,5 Sonne Normal  
 Foto-Richtung 251° Windricht. 0° Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Fotobeschreibung.: FP02.02 Ka FP02.02, Benthen, Kirche, von Friedhof

## WEA-Platzierung

| WEA-Id | Status      | WEA-Typ |            | Typ           | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|--------|-------------|---------|------------|---------------|-------------------|----------------------|---------------|--------------------|----------------|
|        |             | Aktuell | Hersteller |               |                   |                      |               | FP02.01 Ka [m]     | FP02.02 Ka [m] |
| B01    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 11.323             | 11.238         |
| B02    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 10.896             | 10.811         |
| B03    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 10.922             | 10.837         |
| B04    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 9.564              | 9.478          |
| B05    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 9.265              | 9.179          |
| B06    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 10.686             | 10.600         |
| B07    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.266              | 9.179          |
| B08    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.695              | 9.608          |
| B09    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.355             | 10.269         |
| B10    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.080             | 9.993          |
| B11    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.860              | 9.773          |
| B12    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.020              | 8.934          |
| B13    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 8.872              | 8.786          |
| B14    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.273             | 11.187         |
| B15    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 10.988             | 10.901         |
| B16    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.525             | 11.439         |
| B17    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.406             | 11.320         |
| B18    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.081             | 10.994         |

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## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP02, Benthen, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |                  | Hersteller | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|---------|------------------|------------|----------------------|-------------------|----------------------|---------------|--------------------|----------------|
| Aktuell |                  |            |                      |                   |                      |               | FP02.01 Ka [m]     | FP02.02 Ka [m] |
| B19     | Existierend Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.901             | 11.814         |
| B20     | Existierend Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.703             | 11.616         |
| B21     | Existierend Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.505             | 11.418         |
| B22     | Existierend Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 12.224             | 12.137         |
| B23     | Existierend Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.825             | 11.737         |
| B24     | Existierend Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.514             | 11.429         |
| B25     | Existierend Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.785             | 10.698         |
| B26     | Existierend Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.573             | 10.486         |
| B27     | Existierend Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.332             | 10.245         |
| B28     | Existierend Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.186             | 10.099         |
| B29     | Existierend Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.327             | 10.240         |
| B30     | Existierend Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.507             | 10.421         |
| PA1     | Existierend Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 2.216              | 2.260          |
| PA2     | Existierend Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 1.904              | 1.956          |
| PA3     | Existierend Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 1.534              | 1.584          |
| PA4     | Existierend Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 1.194              | 1.252          |
| PA5     | Existierend Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 2.254              | 2.310          |
| PA6     | Existierend Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 2.335              | 2.408          |
| PA7     | Existierend Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 2.337              | 2.417          |
| PA8     | Existierend Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 2.638              | 2.721          |
| WE01    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.677              | 2.642          |
| WE02    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.718              | 2.690          |
| WE03    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.477              | 3.453          |
| WE04    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.562              | 2.502          |
| WE05    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.718              | 3.692          |
| WE06    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.999              | 2.990          |
| WE07    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.906              | 2.893          |
| WE08    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.960              | 2.922          |
| WE09    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.882              | 2.851          |
| WE10    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.738              | 2.717          |
| WE11    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.977              | 2.959          |
| WE12    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.146              | 3.130          |
| WE13    | Existierend Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.234              | 3.211          |
| WE14    | Existierend Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.769              | 2.711          |
| WE15    | Existierend Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.481              | 2.429          |
| WE16    | Existierend Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.670              | 2.623          |
| WE17    | Existierend Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.654              | 2.648          |
| WE18    | Existierend Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.434              | 2.435          |
| WE19    | Existierend Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 3.282              | 3.278          |
| WE20    | Existierend Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 3.157              | 3.148          |
| WE21    | Existierend Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 60,0          | 2.796              | 2.757          |
| WE22    | Existierend Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 2.645              | 2.590          |
| WE23    | Existierend Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 2.509              | 2.475          |
| WE24    | Existierend Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 2.521              | 2.456          |
| WE25    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.109              | 2.045          |
| WE26    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.823              | 2.760          |
| WE27    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.348              | 2.286          |
| WE28    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.394              | 2.326          |
| WE29    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 1.936              | 1.865          |
| WE30    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.238              | 2.181          |
| WE31    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.506              | 3.491          |
| WE32    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.263              | 3.251          |
| WE33    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.130              | 3.097          |
| WE34    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.888              | 2.833          |
| WE35    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.244              | 2.174          |
| WE36    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.710              | 2.642          |
| WE37    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.522              | 2.482          |
| WE38    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.613              | 2.543          |
| WE39    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.296              | 2.304          |
| WE40    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 2.422              | 2.365          |
| WE41    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 4.094              | 4.073          |
| WE42    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 2.982              | 2.980          |
| WE43    | Existierend Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 3.774              | 3.754          |

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## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP02, Benthen, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|        |             | WEA-Typ |                | Typ                     | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|--------|-------------|---------|----------------|-------------------------|-------------------|----------------------|---------------|--------------------|----------------|
|        |             | Aktuell | Hersteller     |                         |                   |                      |               | FP02.01 Ka [m]     | FP02.02 Ka [m] |
| WE44   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.938              | 3.917          |
| WE45   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.879              | 3.854          |
| WE46   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 2.259              | 2.194          |
| WE47   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.618              | 3.600          |
| WE48   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.363              | 3.363          |
| WE49   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.361              | 3.353          |
| WE50   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.138              | 3.136          |
| WE51   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.418              | 3.406          |
| WE52   | Existierend | Ja      | NORDEX         | N117/3600-3.600         | 3.600             | 116,8                | 140,6         | 3.038              | 2.992          |
| WEA 1  | Neu         | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 3.843              | 3.767          |
| WEA 2  | Neu         | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 3.792              | 3.710          |
| WEA03  | Neu         | Ja      | eno            | eno160-6.0MW_rev1-6.000 | 6.000             | 160,0                | 165,0         | 3.869              | 3.795          |
| WKA 01 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.637              | 5.557          |
| WKA 02 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.518              | 5.435          |
| WKA 03 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.268              | 5.188          |
| WKA 04 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.056              | 4.974          |
| WKA 05 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 4.887              | 4.807          |
| WKA 06 | Existierend | Ja      | VESTAS         | V150-5.6-5.600          | 5.600             | 150,0                | 169,0         | 4.548              | 4.470          |
| WKA 07 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 4.220              | 4.145          |
| WKA 08 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 4.116              | 4.046          |
| WKA 09 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.881              | 5.799          |
| WKA 1  | Existierend | Nein    | ENRONWIND      | EW 1.5s-1.500           | 1.500             | 70,5                 | 64,7          | 13.332             | 13.258         |
| WKA 10 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.414              | 5.330          |
| WKA 10 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.953             | 14.883         |
| WKA 11 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 3.588              | 3.503          |
| WKA 11 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 15.197             | 15.128         |
| WKA 12 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 13.502             | 13.429         |
| WKA 12 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 3.524              | 3.442          |
| WKA 13 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 13.746             | 13.673         |
| WKA 14 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 13.956             | 13.884         |
| WKA 15 | Existierend | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 3.518              | 3.440          |
| WKA 15 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.165             | 14.092         |
| WKA 16 | Existierend | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 4.217              | 4.133          |
| WKA 16 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.375             | 14.303         |
| WKA 17 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.585             | 14.512         |
| WKA 17 | Existierend | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 3.480              | 3.407          |
| WKA 18 | Existierend | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 4.238              | 4.158          |
| WKA 18 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.502             | 14.431         |
| WKA 19 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.298             | 14.227         |
| WKA 19 | Existierend | Ja      | VESTAS         | V162-6.0-6.000          | 6.000             | 162,0                | 169,0         | 4.877              | 4.793          |
| WKA 2  | Existierend | Nein    | ENRONWIND      | EW 1.5s-1.500           | 1.500             | 70,5                 | 64,7          | 13.163             | 13.089         |
| WKA 2  | Existierend | Ja      | NORDEX         | N149/5.7-5.700          | 5.700             | 149,0                | 125,4         | 14.996             | 14.926         |
| WKA 20 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.725             | 14.656         |
| WKA 21 | Existierend | Nein    | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 13.030             | 12.964         |
| WKA 22 | Existierend | Nein    | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 12.900             | 12.833         |
| WKA 23 | Existierend | Nein    | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 12.580             | 12.511         |
| WKA 24 | Existierend | Nein    | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 12.309             | 12.241         |
| WKA 25 | Existierend | Nein    | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 12.047             | 11.978         |
| WKA 26 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 13.223             | 13.150         |
| WKA 27 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 13.137             | 13.065         |
| WKA 28 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.957             | 12.883         |
| WKA 29 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 13.064             | 12.993         |
| WKA 3  | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.067             | 13.996         |
| WKA 30 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 13.082             | 13.012         |
| WKA 31 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.279             | 12.206         |
| WKA 32 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.491             | 12.420         |
| WKA 33 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.807             | 12.735         |
| WKA 34 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.002             | 11.931         |
| WKA 35 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 11.861             | 11.791         |
| WKA 36 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.222             | 12.152         |
| WKA 37 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.498             | 12.428         |
| WKA 38 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.871             | 12.802         |
| WKA 39 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 13.304             | 13.235         |

(Fortsetzung nächste Seite)...

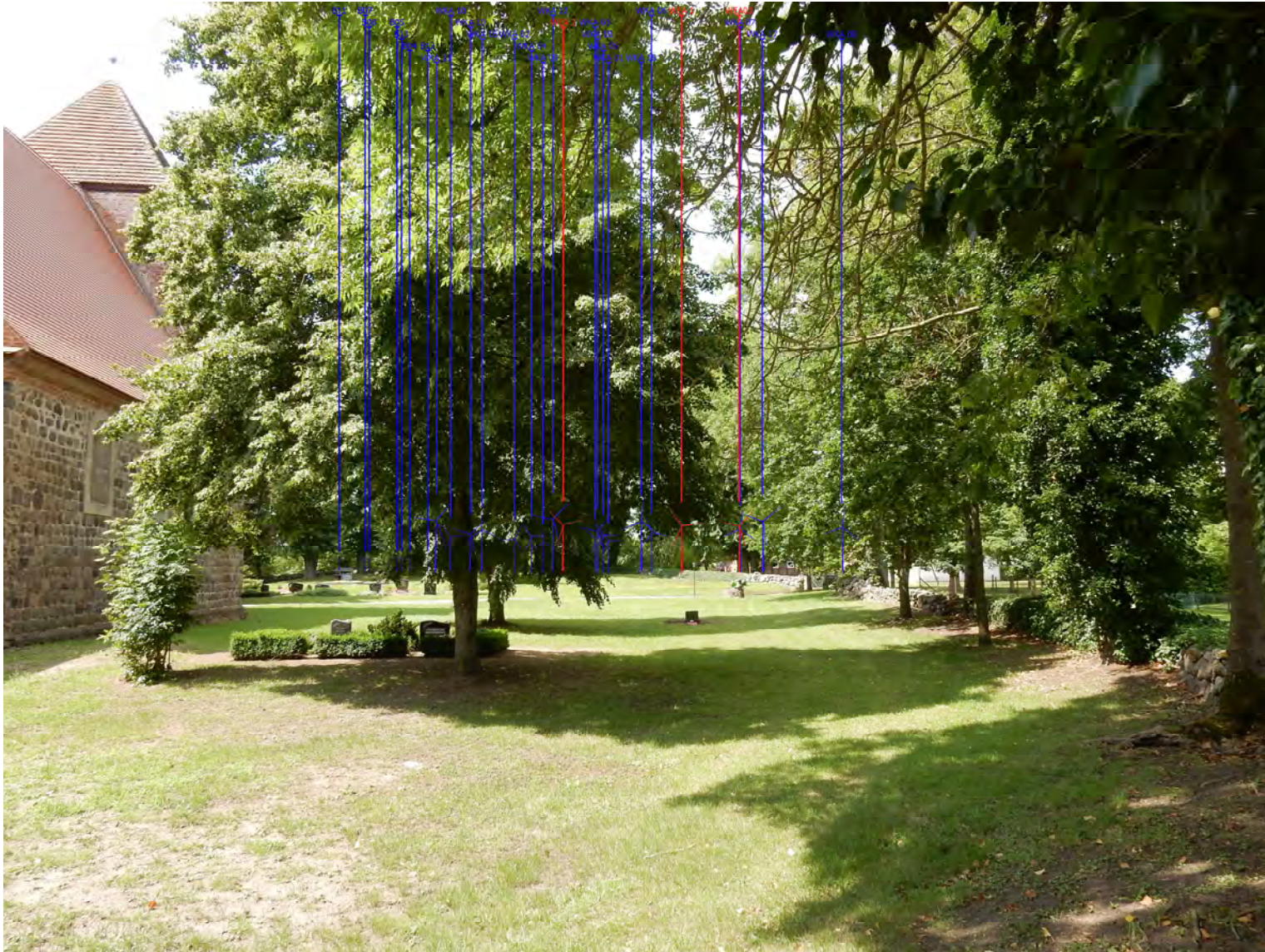
## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP02, Benthen, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|        |             | WEA-Typ |      | Hersteller | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|--------|-------------|---------|------|------------|----------------------|-------------------|----------------------|---------------|--------------------|----------------|
| WKA    | Existierend | Aktuell | Nein |            |                      |                   |                      |               | FP02.01 Ka [m]     | FP02.02 Ka [m] |
| WKA 4  | Existierend | Nein    |      | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 13.853             | 13.782         |
| WKA 40 | Existierend | Nein    |      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.342             | 13.275         |
| WKA 41 | Existierend | Nein    |      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.405             | 13.336         |
| WKA 42 | Existierend | Nein    |      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.389             | 13.318         |
| WKA 43 | Existierend | Nein    |      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.479             | 13.407         |
| WKA 44 | Existierend | Nein    |      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.736             | 13.666         |
| WKA 46 | Existierend | Ja      |      | NORDEX     | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 12.718             | 12.649         |
| WKA 47 | Existierend | Ja      |      | NORDEX     | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 13.110             | 13.042         |
| WKA 48 | Existierend | Ja      |      | NORDEX     | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 13.441             | 13.373         |
| WKA 49 | Existierend | Ja      |      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 13.990             | 13.918         |
| WKA 5  | Existierend | Nein    |      | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 13.639             | 13.568         |
| WKA 50 | Existierend | Ja      |      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 14.210             | 14.138         |
| WKA 51 | Existierend | Ja      |      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 14.431             | 14.359         |
| WKA 52 | Existierend | Ja      |      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 14.682             | 14.611         |
| WKA 53 | Existierend | Ja      |      | eno        | eno 82 2.05-2.050    | 2.050             | 82,4                 | 108,0         | 15.042             | 14.973         |
| WKA 54 | Existierend | Nein    |      | NEG MICON  | NM72C/1500-1.500/400 | 1.500             | 72,0                 | 80,0          | 13.665             | 13.598         |
| WKA 55 | Existierend | Ja      |      | eno        | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 13.826             | 13.758         |
| WKA 56 | Existierend | Ja      |      | eno        | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 14.112             | 14.043         |
| WKA 57 | Existierend | Ja      |      | eno        | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 14.388             | 14.319         |
| WKA 58 | Existierend | Ja      |      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 13.743             | 13.669         |
| WKA 59 | Existierend | Nein    |      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 113,5         | 14.034             | 13.960         |
| WKA 6  | Existierend | Nein    |      | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 13.624             | 13.555         |
| WKA 60 | Existierend | Nein    |      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 12.688             | 12.615         |
| WKA 61 | Existierend | Ja      |      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 13.583             | 13.509         |
| WKA 62 | Existierend | Ja      |      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 13.380             | 13.306         |
| WKA 7  | Existierend | Nein    |      | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 13.874             | 13.805         |
| WKA 8  | Existierend | Nein    |      | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 14.135             | 14.066         |
| WKA 9  | Existierend | Nein    |      | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 14.364             | 14.294         |





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 17 cm**

Fotoaufnahme: 13.07.2021 13:25:35  
Gesichtsfeld: 61,7°x48,2° Brennweite: 29 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 699.432 Nord: 5.933.982  
Windrichtung: 0° Richtung des Fotos: 273°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP02.01 Ka FP02.01, Benthen, Kirche, von Friedhof

Erzeugt von:  
enosite GmbH  
Straße am Zeltplatz 7  
DE-18230 Ostseebad Rerik  
+49(0)38296 747 400  
Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

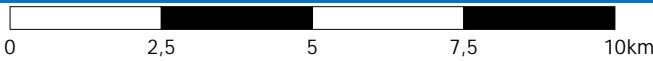
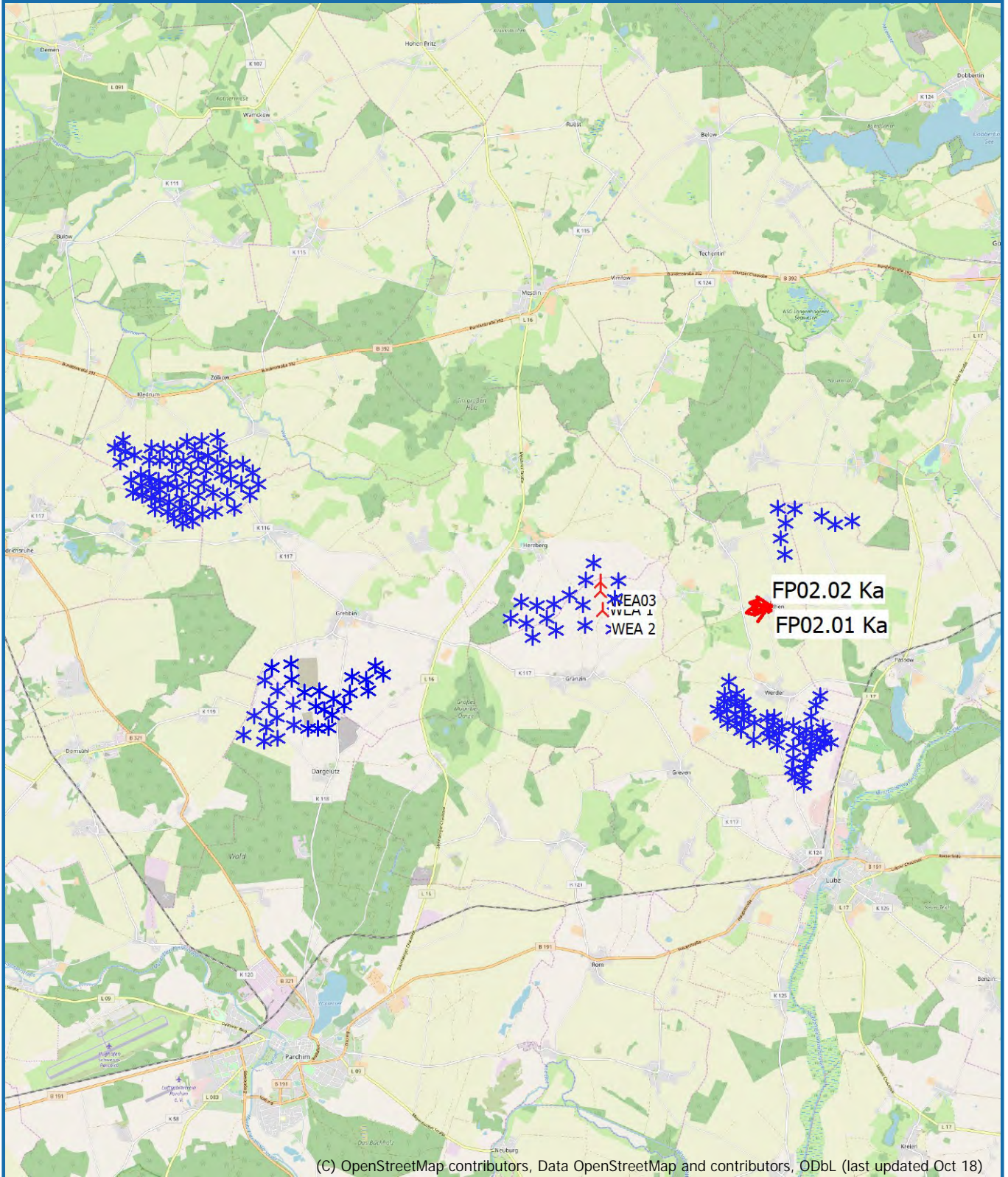
Fotoaufnahme: 13.07.2021 13:27:38  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 699.353 Nord: 5.933.941  
 Windrichtung: 0° Richtung des Fotos: 251°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP02.02 Ka FP02.02, Benthen, Kirche, von Friedhof

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com



VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP02, Benthen, Kirche; 2022-08-24



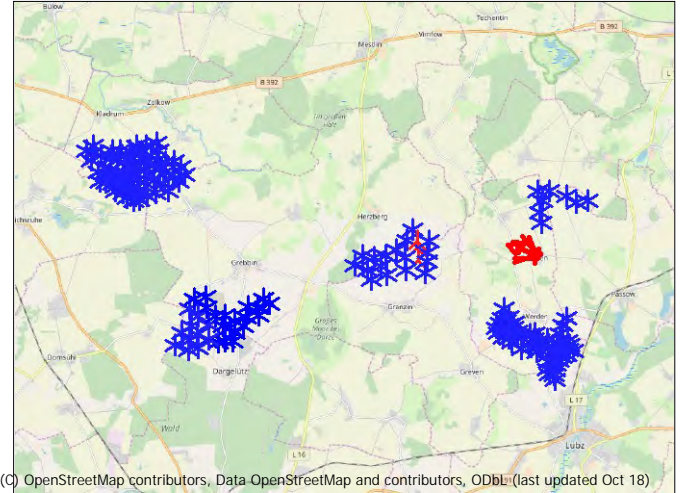
Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

- Neue WEA
- Existierende WEA
- Kamera



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP03, Benthen, Gutshaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP03.01 Ka FP03.01, Benthent, Gutshaus (von hinten), von Kastanienallee



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken teilweise bewölkt (4/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 699.553 5.934.107 74.5 Sichtbarkei Normal DSCN4938.JPG  
 Zielpunkt 699.456 5.934.131 84.5 Sonne Normal  
 Foto-Richtung 286° Windricht. 0°  
 Geschichtsfeld: 70,5°x55,8° Brennweite: 25 mm Film: 35x26 mm  
 Fotobeschreibung: FP03.01 Ka FP03.01, Benthent, Gutshaus (von hinten), von Kastanienallee

FP03.02 Ka FP03.02, Benthent, Gutshaus (von vorn), von Kastanienallee



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken teilweise bewölkt (4/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 699.569 5.923.979 74.2 Sichtbarkei Normal DSCN4938.JPG  
 Zielpunkt 699.504 5.934.031 80.7 Sonne Normal  
 Foto-Richtung 304° Windricht. 0°  
 Geschichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Fotobeschreibung: FP03.02 Ka FP03.02, Benthent, Gutshaus (von vorn), von Kastanienallee

## WEA-Platzierung

| WEA-Id | Status      | Aktuell | Hersteller | Typ           | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|--------|-------------|---------|------------|---------------|-------------------|----------------------|---------------|--------------------|----------------|
|        |             |         |            |               |                   |                      |               | FP03.01 Ka [m]     | FP03.02 Ka [m] |
| B01    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 11.463             | 11.478         |
| B02    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 11.036             | 11.051         |
| B03    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 11.065             | 11.076         |
| B04    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 9.709              | 9.717          |
| B05    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 9.410              | 9.418          |
| B06    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 10.832             | 10.839         |
| B07    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.414              | 9.418          |
| B08    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.843              | 9.847          |
| B09    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.501             | 10.508         |
| B10    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.228             | 10.232         |
| B11    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.011             | 10.011         |
| B12    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.163              | 9.174          |
| B13    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.017              | 9.025          |
| B14    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.417             | 11.426         |
| B15    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.136             | 11.140         |
| B16    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.673             | 11.678         |
| B17    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.556             | 11.558         |
| B18    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.233             | 11.232         |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP03, Benthen, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|------|-------------|------|------------|----------------------|-------------------|----------------------|---------------|--------------------|----------------|
|      | Aktuell     |      |            |                      |                   |                      |               | FP03.01 Ka [m]     | FP03.02 Ka [m] |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 12.049             | 12.053         |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.854             | 11.854         |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.658             | 11.654         |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 12.375             | 12.374         |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.978             | 11.974         |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.656             | 11.668         |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.938             | 10.935         |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.726             | 10.723         |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.486             | 10.482         |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.338             | 10.337         |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.477             | 10.478         |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 10.656             | 10.659         |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 2.090              | 2.220          |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 1.767              | 1.893          |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 1.401              | 1.530          |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 1.050              | 1.174          |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 2.110              | 2.232          |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 2.169              | 2.271          |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 2.165              | 2.252          |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 2.464              | 2.540          |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.799              | 2.670          |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.830              | 2.699          |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.581              | 3.448          |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.717              | 2.607          |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.824              | 3.692          |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.079              | 2.946          |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.992              | 2.858          |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.084              | 2.957          |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.997              | 2.866          |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.838              | 2.705          |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.072              | 2.938          |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.238              | 3.104          |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.336              | 3.203          |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.921              | 2.808          |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.627              | 2.509          |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.809              | 2.687          |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.729              | 2.596          |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.497              | 2.364          |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 3.352              | 3.219          |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 3.234              | 3.100          |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 60,0          | 2.922              | 2.795          |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 2.793              | 2.677          |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 2.630              | 2.501          |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 2.683              | 2.579          |
| WE25 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.269              | 2.164          |
| WE26 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.981              | 2.873          |
| WE27 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.505              | 2.397          |
| WE28 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.559              | 2.460          |
| WE29 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.104              | 2.010          |
| WE30 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.390              | 2.277          |
| WE31 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.595              | 3.461          |
| WE32 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.347              | 3.214          |
| WE33 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.248              | 3.118          |
| WE34 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.036              | 2.920          |
| WE35 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.410              | 2.313          |
| WE36 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.873              | 2.771          |
| WE37 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.650              | 2.523          |
| WE38 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.778              | 2.681          |
| WE39 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 2.347              | 2.216          |
| WE40 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 2.574              | 2.460          |
| WE41 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 4.192              | 4.059          |
| WE42 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 3.048              | 2.915          |
| WE43 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 3.870              | 3.737          |

(Fortsetzung nächste Seite)...



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP03, Benthen, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|         |             | WEA-Typ    |                | Typ                     | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|---------|-------------|------------|----------------|-------------------------|-------------------|----------------------|---------------|--------------------|----------------|
| Aktuell | Hersteller  | Hersteller | Typ            |                         |                   |                      |               | FP03.01 Ka [m]     | FP03.02 Ka [m] |
| WE44    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 4.035              | 3.902          |
| WE45    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.983              | 3.851          |
| WE46    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 2.421              | 2.318          |
| WE47    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.711              | 3.578          |
| WE48    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.427              | 3.294          |
| WE49    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.437              | 3.304          |
| WE50    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.204              | 3.071          |
| WE51    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.501              | 3.367          |
| WE52    | Existierend | Ja         | NORDEX         | N117/3600-3.600         | 3.600             | 116,8                | 140,6         | 3.176              | 3.053          |
| WEA 1   | Neu         | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 3.961              | 4.001          |
| WEA 2   | Neu         | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 3.922              | 3.949          |
| WEA03   | Neu         | Ja         | eno            | eno160-6.0MW_rev1-6.000 | 6.000             | 160,0                | 165,0         | 3.979              | 4.026          |
| WKA 01  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.762              | 5.794          |
| WKA 02  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.653              | 5.674          |
| WKA 03  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.395              | 5.425          |
| WKA 04  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.190              | 5.213          |
| WKA 05  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.013              | 5.044          |
| WKA 06  | Existierend | Ja         | VESTAS         | V150-5.6-5.600          | 5.600             | 150,0                | 169,0         | 4.668              | 4.705          |
| WKA 07  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 4.330              | 4.377          |
| WKA 08  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 4.213              | 4.271          |
| WKA 09  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 6.013              | 6.037          |
| WKA 1   | Existierend | Nein       | ENRONWIND      | EW 1.5s-1.500           | 1.500             | 70,5                 | 64,7          | 13.438             | 13.488         |
| WKA 10  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 5.556              | 5.569          |
| WKA 10  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 15.048             | 15.108         |
| WKA 11  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 3.731              | 3.742          |
| WKA 11  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 15.292             | 15.352         |
| WKA 12  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 13.607             | 13.658         |
| WKA 12  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 3.656              | 3.681          |
| WKA 13  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 13.850             | 13.902         |
| WKA 14  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.060             | 14.113         |
| WKA 15  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 3.641              | 3.676          |
| WKA 15  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.269             | 14.321         |
| WKA 16  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 4.356              | 4.373          |
| WKA 16  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.479             | 14.532         |
| WKA 17  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.688             | 14.741         |
| WKA 17  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 3.588              | 3.637          |
| WKA 18  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 4.365              | 4.395          |
| WKA 18  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.601             | 14.658         |
| WKA 19  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.397             | 14.454         |
| WKA 19  | Existierend | Ja         | VESTAS         | V162-6.0-6.000          | 6.000             | 162,0                | 169,0         | 5.017              | 5.033          |
| WKA 2   | Existierend | Nein       | ENRONWIND      | EW 1.5s-1.500           | 1.500             | 70,5                 | 64,7          | 13.270             | 13.319         |
| WKA 2   | Existierend | Ja         | NORDEX         | N149/5.7-5.700          | 5.700             | 149,0                | 125,4         | 15.094             | 15.152         |
| WKA 20  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.821             | 14.880         |
| WKA 21  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 13.116             | 13.183         |
| WKA 22  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 12.989             | 13.054         |
| WKA 23  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 12.672             | 12.734         |
| WKA 24  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 12.400             | 12.463         |
| WKA 25  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 12.140             | 12.201         |
| WKA 26  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 13.327             | 13.379         |
| WKA 27  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 13.238             | 13.293         |
| WKA 28  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 13.063             | 13.113         |
| WKA 29  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 13.162             | 13.220         |
| WKA 3   | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 14.167             | 14.223         |
| WKA 30  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 13.177             | 13.237         |
| WKA 31  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.382             | 12.435         |
| WKA 32  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.591             | 12.647         |
| WKA 33  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.907             | 12.963         |
| WKA 34  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.101             | 12.158         |
| WKA 35  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 11.956             | 12.016         |
| WKA 36  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.319             | 12.377         |
| WKA 37  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.594             | 12.653         |
| WKA 38  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 12.963             | 13.025         |
| WKA 39  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 13.397             | 13.458         |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP03, Benthen, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|         |             | WEA-Typ |           | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|---------|-------------|---------|-----------|----------------------|-------------------|----------------------|---------------|--------------------|----------------|
| Aktuell | Hersteller  |         |           |                      |                   |                      |               | FP03.01 Ka [m]     | FP03.02 Ka [m] |
| WKA 4   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 13.953             | 14.009         |
| WKA 40  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.430             | 13.495         |
| WKA 41  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.501             | 13.561         |
| WKA 42  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.489             | 13.545         |
| WKA 43  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.582             | 13.635         |
| WKA 44  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.834             | 13.892         |
| WKA 46  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 12.814             | 12.874         |
| WKA 47  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 13.202             | 13.265         |
| WKA 48  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 13.531             | 13.595         |
| WKA 49  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 14.092             | 14.146         |
| WKA 5   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 13.740             | 13.795         |
| WKA 50  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 14.312             | 14.366         |
| WKA 51  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 14.533             | 14.587         |
| WKA 52  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 14.783             | 14.838         |
| WKA 53  | Existierend | Ja      | eno       | eno 82 2.05-2.050    | 2.050             | 82,4                 | 108,0         | 15.134             | 15.196         |
| WKA 54  | Existierend | Nein    | NEG MICON | NM72C/1500-1.500/400 | 1.500             | 72,0                 | 80,0          | 13.754             | 13.819         |
| WKA 55  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 13.917             | 13.980         |
| WKA 56  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 14.204             | 14.266         |
| WKA 57  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 14.480             | 14.542         |
| WKA 58  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 13.849             | 13.900         |
| WKA 59  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 113,5         | 14.140             | 14.190         |
| WKA 6   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 13.718             | 13.779         |
| WKA 60  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 12.792             | 12.844         |
| WKA 61  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 13.690             | 13.740         |
| WKA 62  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 13.488             | 13.537         |
| WKA 7   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 13.968             | 14.029         |
| WKA 8   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 14.230             | 14.290         |
| WKA 9   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 14.459             | 14.519         |





Projekt: 0108-Granzin WEA: 172

**Empfohlener Betrachtungsabstand: 14 cm**

Fotoaufnahme: 13.07.2021 13:13:37  
Gesichtsfeld: 70,5°x55,8° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 699.553 Nord: 5.934.107  
Windrichtung: 0° Richtung des Fotos: 286°  
Software: windPRO version 3.5.584

Fotobeschreibung.: FP03.01 Ka FP03.01, Benthen, Gutshaus (von hinten), von Kastanienallee

Erzeugt von:  
enosite GmbH  
Straße am Zeltplatz 7  
DE-18230 Ostseebad Rerik  
+49(0)38296 747 400  
Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

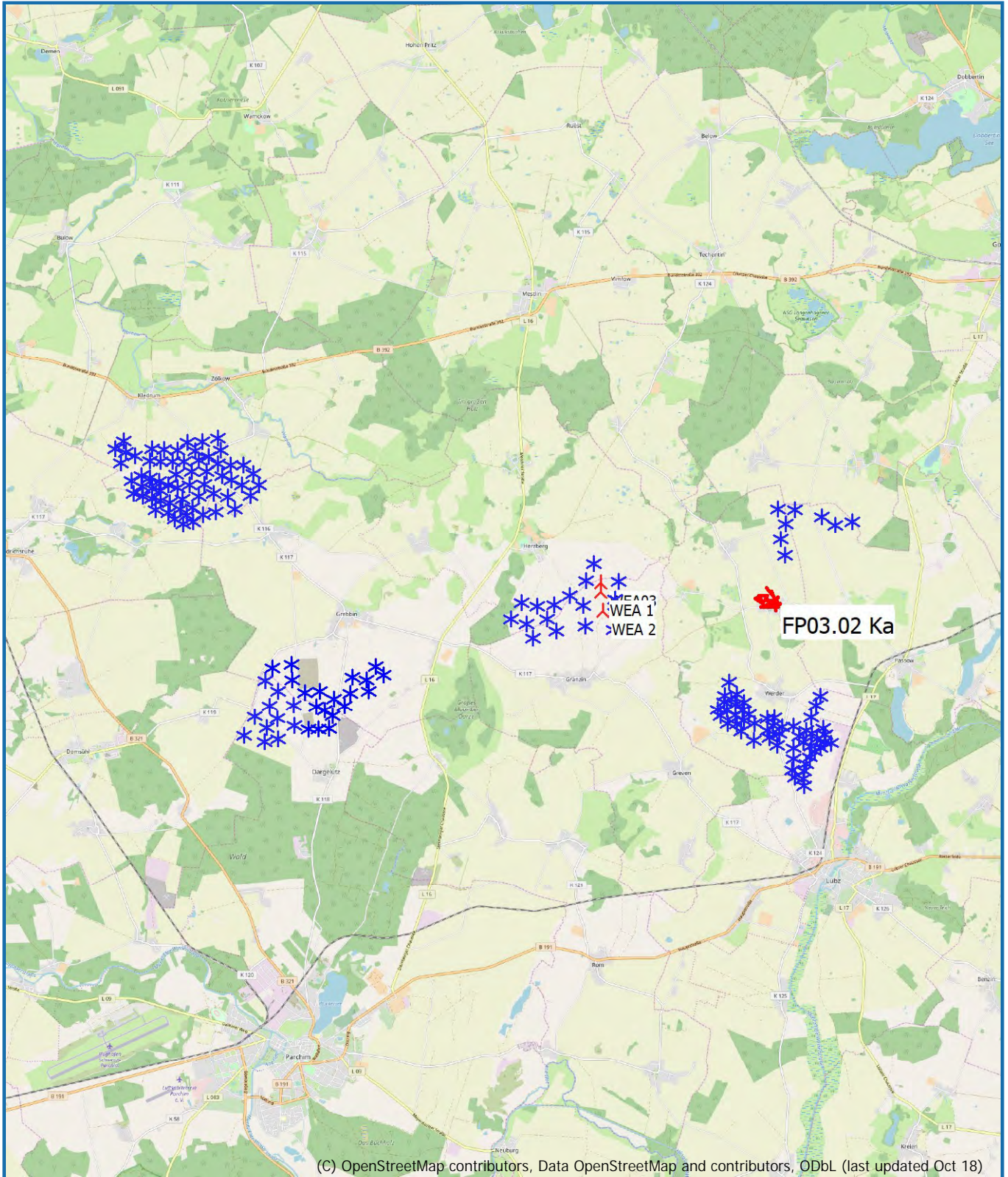
Fotoaufnahme: 13.07.2021 13:18:57  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 699.589 Nord: 5.933.979  
 Windrichtung: 0° Richtung des Fotos: 304°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP03.02 Ka FP03.02, Benthen, Gutshaus (von vorn), von Kastanienallee

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP03, Benthen, Gutshaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

0 2,5 5 7,5 10km

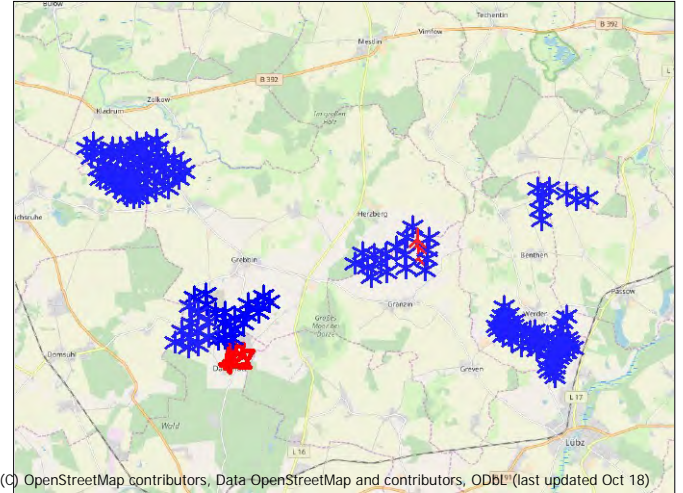
Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

Neue WEA \* Existierende WEA Kamera



## VISUAL - Hauptergebnis

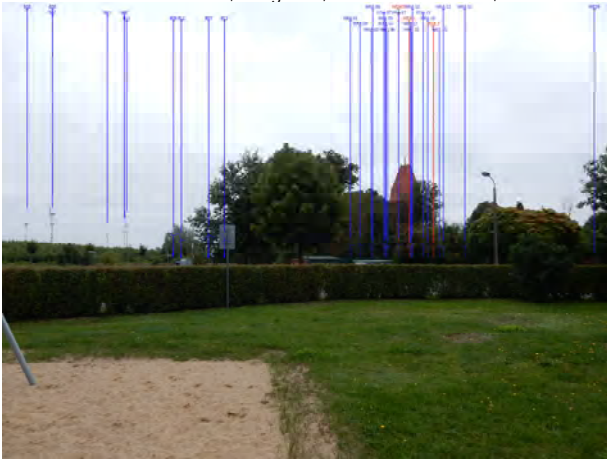
Berechnung: Granzin, Visualisierung; FP04/05, Dargelütz, Friedhof/Kirchturm; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    ▲ Kamera

FP04/05.01 Ka FP04/05.01, Dargelütz, Friedhof/Kirchturm, von Am Kirchturm



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken -Schwer bedeckt mit Wolken (6/8) Foto-Daten im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt: 689.385 5.929.638 71.9 Sichtbarkei Normal D52362311.962  
 Zielpunkt: 689.493 5.929.950 87.5 Sonne Normal Geschichtsfeld: 69.4°x54.9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung: 44° Windricht: 0°  
 Fotobeschreibung: -FP04/05.01 Ka FP04/05.01, Dargelütz, Friedhof/Kirchturm, von Am Kirchturm

FP04/05.02 Ka FP04/05.02, Dargelütz, Friedhof/Kirchturm, von Friedhof



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken -Schwer bedeckt mit Wolken (6/8) Foto-Daten im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt: 689.446 5.929.885 79.0 Sichtbarkei Normal D52362311.962  
 Zielpunkt: 689.612 5.930.007 86.5 Sonne Normal Geschichtsfeld: 71.6°x56.8° Brennweite: 24 mm Film: 35x26 mm  
 Foto-Richtung: 56° Windricht: 0°  
 Fotobeschreibung: -FP04/05.02 Ka FP04/05.02, Dargelütz, Friedhof/Kirchturm, von Friedhof

### WEA-Platzierung

| ID  | Status      | Ja | WEA-Typ |               | Typ   | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |
|-----|-------------|----|---------|---------------|-------|-------------------|----------------------|---------------|--------------------|-------------------|
|     |             |    | Aktuell | Hersteller    |       |                   |                      |               | FP04/05.01 Ka [m]  | FP04/05.02 Ka [m] |
| B01 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000 | 82,0              | 78,3                 | 2.575         | 2.553              |                   |
| B02 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000 | 82,0              | 78,3                 | 2.510         | 2.474              |                   |
| B03 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000 | 82,0              | 78,3                 | 2.176         | 2.142              |                   |
| B04 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000 | 82,0              | 108,3                | 2.286         | 2.213              |                   |
| B05 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000 | 82,0              | 108,3                | 2.366         | 2.288              |                   |
| B06 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000 | 82,0              | 78,3                 | 1.824         | 1.782              |                   |
| B07 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                | 2.167         | 2.086              |                   |
| B08 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                | 1.925         | 1.850              |                   |
| B09 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                | 1.839         | 1.785              |                   |
| B10 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                | 1.696         | 1.630              |                   |
| B11 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                | 1.619         | 1.545              |                   |
| B12 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                | 2.714         | 2.636              |                   |
| B13 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                | 2.649         | 2.568              |                   |
| B14 | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000 | 71,0              | 85,0                 | 2.044         | 2.026              |                   |
| B15 | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000 | 71,0              | 85,0                 | 1.620         | 1.593              |                   |
| B16 | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000 | 71,0              | 85,0                 | 1.855         | 1.852              |                   |
| B17 | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000 | 71,0              | 85,0                 | 1.511         | 1.509              |                   |
| B18 | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000 | 71,0              | 85,0                 | 1.191         | 1.175              |                   |

(Fortsetzung nächste Seite)...



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP04/05, Dargelütz, Friedhof/Kirchturm; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |
|------|-------------|------|------------|----------------------|-------------------|----------------------|---------------|--------------------|-------------------|
|      | Aktuell     |      |            |                      |                   |                      |               | FP04/05.01 Ka [m]  | FP04/05.02 Ka [m] |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 1.903              | 1.918             |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 1.541              | 1.557             |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 1.174              | 1.192             |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 1.865              | 1.900             |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 1.395              | 1.427             |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.391              | 2.378             |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 993                | 957               |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 985                | 932               |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 1.021              | 954               |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 1.322              | 1.255             |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 1.414              | 1.355             |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 1.482              | 1.431             |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.950             | 11.866            |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.935             | 11.852            |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.673             | 11.590            |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.593             | 11.511            |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 12.266             | 12.183            |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 12.736             | 12.653            |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 12.919             | 12.837            |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 13.287             | 13.205            |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.306             | 10.236            |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.515             | 10.445            |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.731             | 10.664            |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 9.495              | 9.423             |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.685             | 10.619            |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 11.165             | 11.096            |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 11.036             | 10.966            |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.202             | 10.132            |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.438             | 10.369            |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.756             | 10.685            |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.880             | 10.811            |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.963             | 10.894            |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.740             | 10.672            |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 9.494              | 9.423             |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 9.792              | 9.720             |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 9.898              | 9.827             |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 11.182             | 11.111            |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 11.324             | 11.252            |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 11.440             | 11.371            |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 11.261             | 11.192            |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 60,0          | 10.170             | 10.101            |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 9.666              | 9.594             |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 10.354             | 10.282            |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 9.326              | 9.253             |
| WE25 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.595              | 9.521             |
| WE26 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.289              | 9.218             |
| WE27 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.531              | 9.458             |
| WE28 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.283              | 9.209             |
| WE29 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.486              | 9.410             |
| WE30 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.730              | 9.657             |
| WE31 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 11.091             | 11.024            |
| WE32 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 11.138             | 11.070            |
| WE33 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 10.359             | 10.291            |
| WE34 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.577              | 9.507             |
| WE35 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.339              | 9.264             |
| WE36 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.161              | 9.089             |
| WE37 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 10.186             | 10.115            |
| WE38 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.114              | 9.041             |
| WE39 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 11.454             | 11.381            |
| WE40 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 9.660              | 9.588             |
| WE41 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 10.963             | 10.900            |
| WE42 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 11.421             | 11.351            |
| WE43 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 10.958             | 10.893            |

(Fortsetzung nächste Seite)...

# VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP04/05, Dargelütz, Friedhof/Kirchturm; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      |                   |                         |               |                   |                   | Abstand zur Kamera |        |
|---------|-------------|------|-------------------|-------------------------|---------------|-------------------|-------------------|--------------------|--------|
| Aktuell | Hersteller  | Typ  | Nennleistung [kW] | Rotordurchmesser [m]    | Nabenhöhe [m] | FP04/05.01 Ka [m] | FP04/05.02 Ka [m] |                    |        |
| WE44    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0              | 73,8              | 10.944             | 10.879 |
| WE45    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0              | 73,8              | 10.750             | 10.685 |
| WE46    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0              | 73,8              | 9.460              | 9.386  |
| WE47    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0              | 73,8              | 10.993             | 10.927 |
| WE48    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0              | 73,8              | 11.587             | 11.519 |
| WE49    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0              | 73,8              | 11.333             | 11.265 |
| WE50    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0              | 73,8              | 11.471             | 11.402 |
| WE51    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0              | 73,8              | 11.203             | 11.136 |
| WE52    | Existierend | Ja   | NORDEX            | N117/3600-3.600         | 3.600         | 116,8             | 140,6             | 9.851              | 9.782  |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0             | 161,0             | 7.566              | 7.482  |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0             | 161,0             | 7.380              | 7.296  |
| WEA03   | Neu         | Ja   | eno               | eno160-6.0MW_rev1-6.000 | 6.000         | 160,0             | 165,0             | 7.678              | 7.594  |
| WKA 01  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0             | 169,0             | 5.967              | 5.882  |
| WKA 02  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0             | 169,0             | 5.774              | 5.689  |
| WKA 03  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0             | 169,0             | 6.210              | 6.125  |
| WKA 04  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0             | 169,0             | 6.213              | 6.128  |
| WKA 05  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0             | 169,0             | 6.537              | 6.452  |
| WKA 06  | Existierend | Ja   | VESTAS            | V150-5.6-5.600          | 5.600         | 150,0             | 169,0             | 6.938              | 6.853  |
| WKA 07  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0             | 169,0             | 7.424              | 7.339  |
| WKA 08  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0             | 169,0             | 7.780              | 7.695  |
| WKA 09  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0             | 169,0             | 5.556              | 5.471  |
| WKA 1   | Existierend | Nein | ENRONWIND         | EW 1.5s-1.500           | 1.500         | 70,5              | 64,7              | 6.518              | 6.500  |
| WKA 10  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0             | 169,0             | 5.715              | 5.631  |
| WKA 10  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 8.421              | 8.408  |
| WKA 11  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0             | 169,0             | 7.399              | 7.317  |
| WKA 11  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 8.611              | 8.600  |
| WKA 12  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 6.718              | 6.700  |
| WKA 12  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0             | 169,0             | 7.602              | 7.518  |
| WKA 13  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 6.948              | 6.932  |
| WKA 14  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 7.090              | 7.076  |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0             | 161,0             | 7.751              | 7.667  |
| WKA 15  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 7.235              | 7.222  |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0             | 161,0             | 6.867              | 6.783  |
| WKA 16  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 7.384              | 7.373  |
| WKA 17  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 7.535              | 7.526  |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0             | 161,0             | 8.022              | 7.938  |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0             | 161,0             | 7.059              | 6.975  |
| WKA 18  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 7.799              | 7.786  |
| WKA 19  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 7.646              | 7.632  |
| WKA 19  | Existierend | Ja   | VESTAS            | V162-6.0-6.000          | 6.000         | 162,0             | 169,0             | 6.243              | 6.159  |
| WKA 2   | Existierend | Nein | ENRONWIND         | EW 1.5s-1.500           | 1.500         | 70,5              | 64,7              | 6.320              | 6.300  |
| WKA 2   | Existierend | Ja   | NORDEX            | N149/5.7-5.700          | 5.700         | 149,0             | 125,4             | 8.273              | 8.262  |
| WKA 20  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 8.245              | 8.231  |
| WKA 21  | Existierend | Nein | VESTAS            | V66-1.750               | 1.750         | 66,0              | 67,0              | 7.873              | 7.840  |
| WKA 22  | Existierend | Nein | VESTAS            | V66-1.750               | 1.750         | 66,0              | 67,0              | 7.593              | 7.560  |
| WKA 23  | Existierend | Nein | VESTAS            | V66-1.750               | 1.750         | 66,0              | 67,0              | 7.193              | 7.159  |
| WKA 24  | Existierend | Nein | VESTAS            | V66-1.750               | 1.750         | 66,0              | 67,0              | 7.127              | 7.090  |
| WKA 25  | Existierend | Nein | VESTAS            | V66-1.750               | 1.750         | 66,0              | 67,0              | 6.894              | 6.855  |
| WKA 26  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 6.611              | 6.590  |
| WKA 27  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 6.792              | 6.769  |
| WKA 28  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 6.358              | 6.335  |
| WKA 29  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 6.988              | 6.962  |
| WKA 3   | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0              | 60,0              | 7.476              | 7.460  |
| WKA 30  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 7.241              | 7.213  |
| WKA 31  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 6.238              | 6.206  |
| WKA 32  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 6.539              | 6.508  |
| WKA 33  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 6.713              | 6.685  |
| WKA 34  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 6.435              | 6.398  |
| WKA 35  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 6.620              | 6.581  |
| WKA 36  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 6.705              | 6.669  |
| WKA 37  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 6.878              | 6.845  |
| WKA 38  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 7.328              | 7.297  |
| WKA 39  | Existierend | Nein | ENERCON           | E-70 E4-2.000           | 2.000         | 71,0              | 85,0              | 7.530              | 7.503  |

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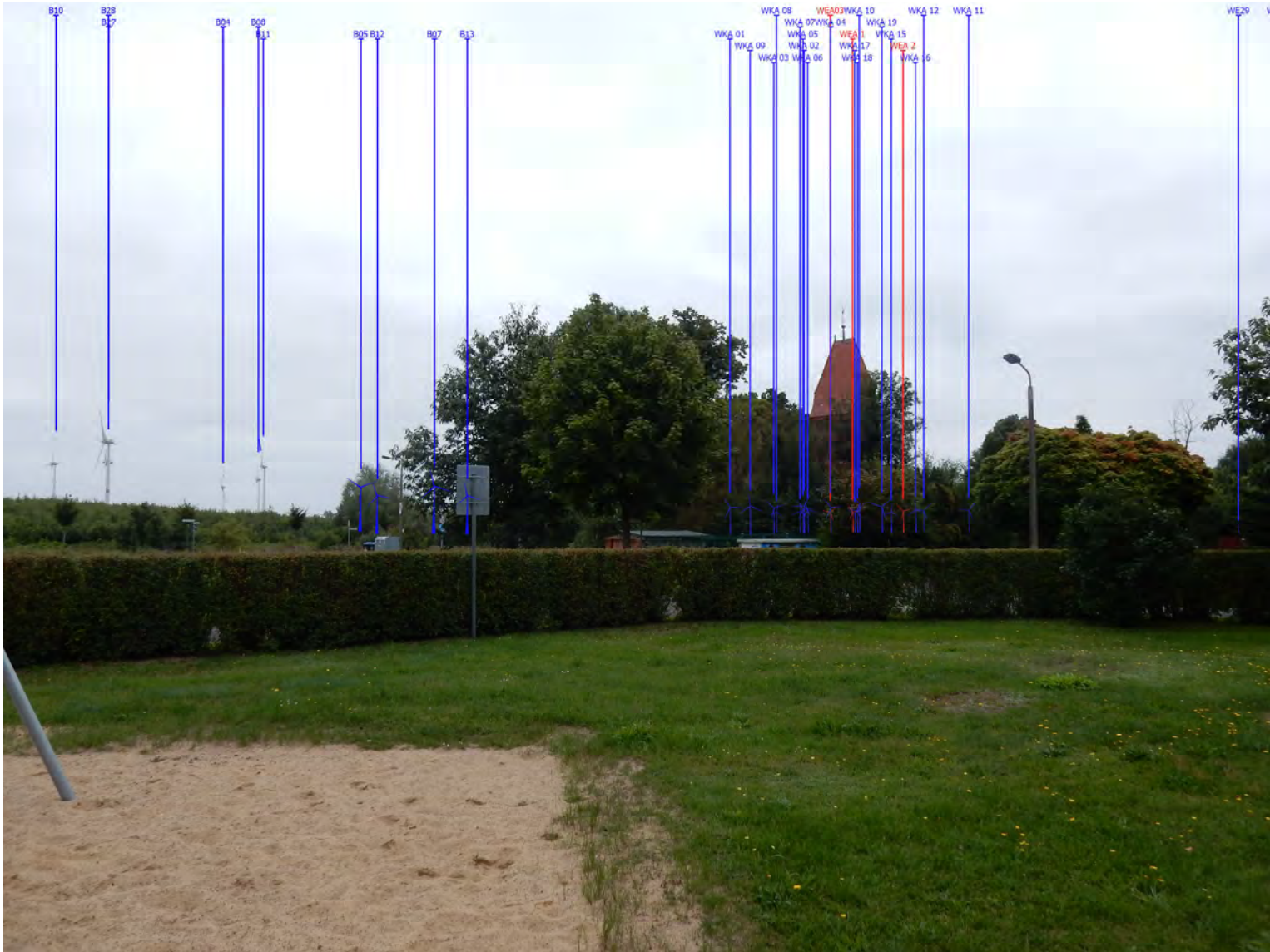


## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP04/05, Dargelütz, Friedhof/Kirchturm; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller | Typ       | Nennleistung [kW]    | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |       |
|---------|-------------|------------|-----------|----------------------|----------------------|---------------|--------------------|-------------------|-------|
| Aktuell | Existierend |            |           |                      |                      |               | FP04/05.01 Ka [m]  | FP04/05.02 Ka [m] |       |
| WKA 4   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 7.317             | 7.299 |
| WKA 40  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.905             | 7.876 |
| WKA 41  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.358             | 7.334 |
| WKA 42  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.109             | 7.086 |
| WKA 43  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 6.888             | 6.869 |
| WKA 44  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.446             | 7.425 |
| WKA 46  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 7.032             | 7.001 |
| WKA 47  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 7.532             | 7.502 |
| WKA 48  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 7.762             | 7.735 |
| WKA 49  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 7.274             | 7.259 |
| WKA 5   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 7.161             | 7.142 |
| WKA 50  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 7.428             | 7.414 |
| WKA 51  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 7.585             | 7.573 |
| WKA 52  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 7.810             | 7.799 |
| WKA 53  | Existierend | Ja         | eno       | eno 82 2.05-2.050    | 2.050                | 82,4          | 108,0              | 8.650             | 8.636 |
| WKA 54  | Existierend | Nein       | NEG MICON | NM72C/1500-1.500/400 | 1.500                | 72,0          | 80,0               | 8.010             | 7.984 |
| WKA 55  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 7.927             | 7.903 |
| WKA 56  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 8.053             | 8.033 |
| WKA 57  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 8.199             | 8.180 |
| WKA 58  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 6.764             | 6.750 |
| WKA 59  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 113,5              | 6.973             | 6.961 |
| WKA 6   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 7.640             | 7.616 |
| WKA 60  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 6.312             | 6.286 |
| WKA 61  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 6.567             | 6.552 |
| WKA 62  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 6.387             | 6.371 |
| WKA 7   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 7.742             | 7.720 |
| WKA 8   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 7.855             | 7.837 |
| WKA 9   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 7.974             | 7.957 |



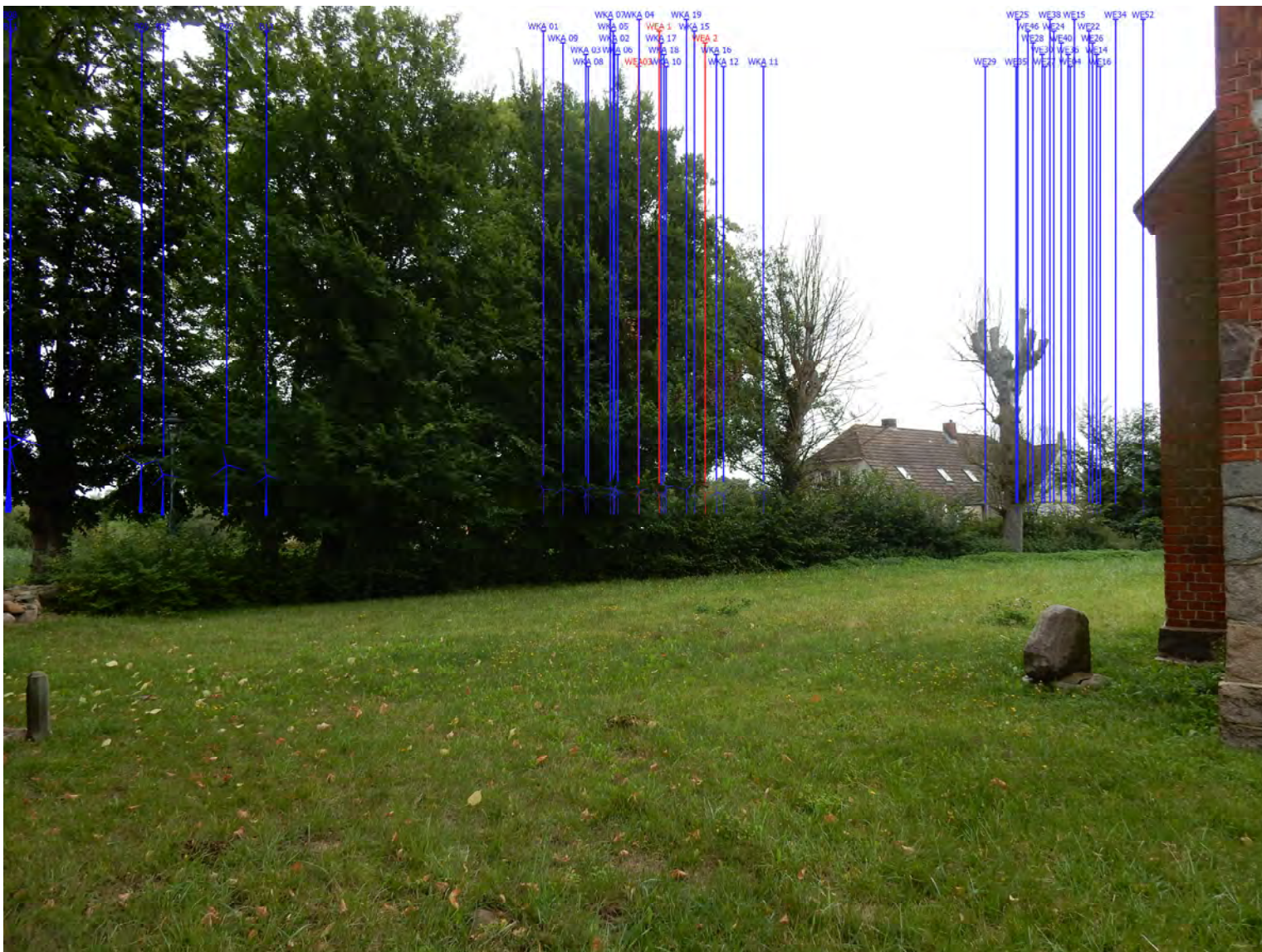
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 02.09.2021 13:40:04  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 689.383 Nord: 5.929.828  
 Windrichtung: 0° Richtung des Fotos: 44°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP04/05.01 Ka FP04/05.01, Dargelütz, Friedhof/Kirchturm, von Am Kirchturm

Erzeugt von:  
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Projekt: WEA: 172  
0108-Granzin

Empfohlener Betrachtungsabstand: 14 cm

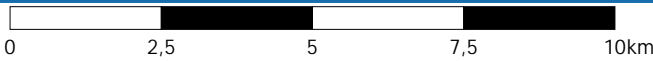
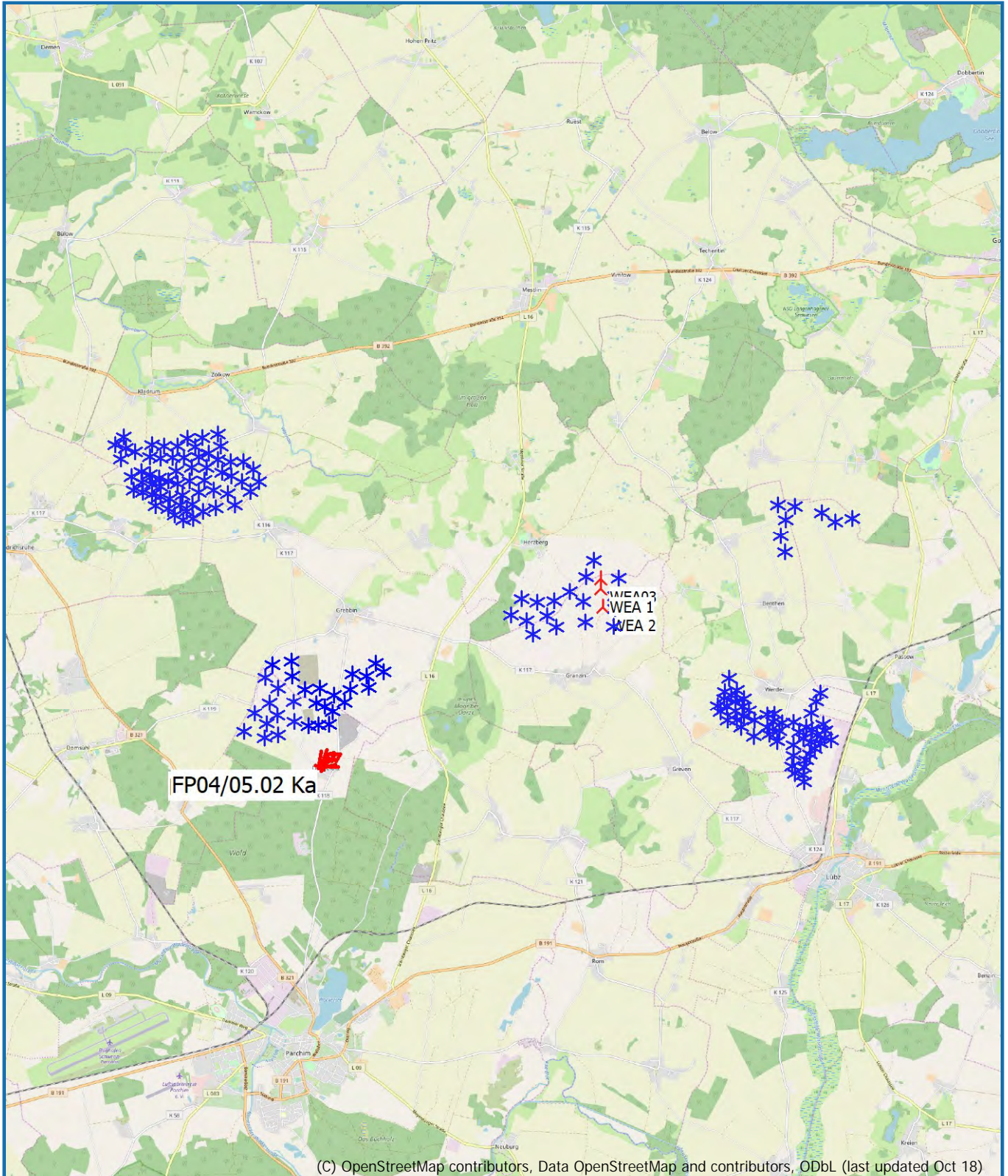
Fotoaufnahme: 02.09.2021 13:42:56  
 Gesichtsfeld: 71,6°x56,8° Brennweite: 24 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 689.446 Nord: 5.929.885  
 Windrichtung: 0° Richtung des Fotos: 56°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP04/05.02 Ka FP04/05.02, Dargelütz, Friedhof/Kirchturm, von Friedhof

Erzeugt von:  
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 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP04/05, Dargelütz, Friedhof/Kirchturm; 2022-08-24



Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.551

Neue WEA    Existierende WEA    Kamera

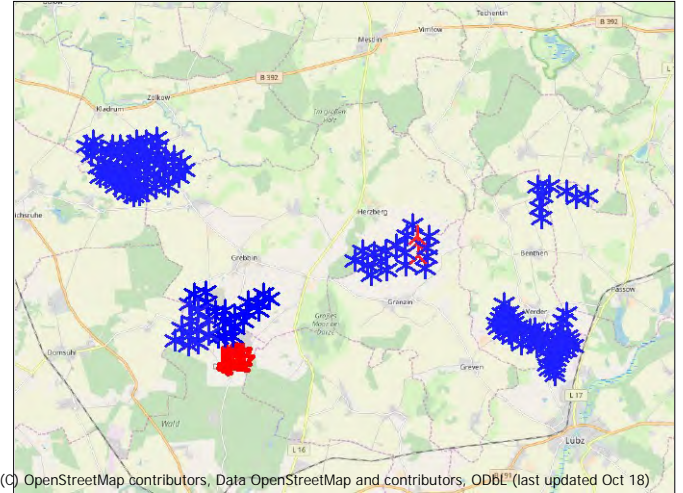


Projekt: 0108-Granzin Beschreibung: Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender: enosite GmbH  
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 Raimund Wörl / raimund.woerl@eno-site.com  
 Berechnet: 25.08.2022 11:14/3.5.584

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP06, Dargelütz, Gutshaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP06.01 Ka FP06.01, Dargelütz, Gutshaus (ND8), von Koppelweg



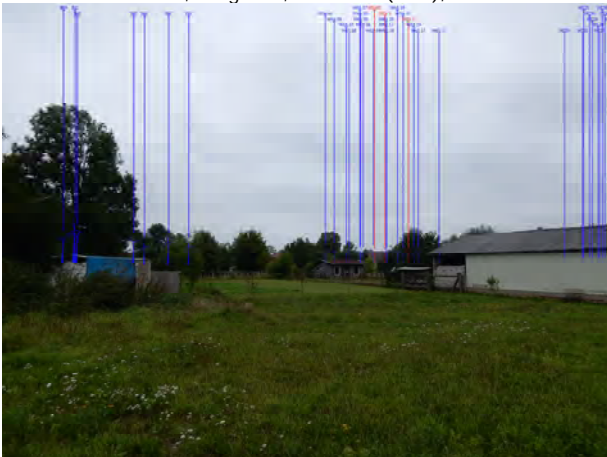
UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken Sichtbarkeit Normal  
 Kamerapunkt 689.534 5.929.836 78,5  
 Zielpunkt 689.415 5.929.800 81,9  
 Foto-Richtung 35°  
 Windricht: 0°  
 Foto-Daten im Querformat: 4608 x 3456 Pixel  
 DSCN6281.JPG  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Fotobeschreibung: FP06.01 Ka FP06.01, Dargelütz, Gutshaus (ND8), von Koppelweg

FP06.02 Ka FP06.02, Dargelütz, Gutshaus (ND8), von Neue Dorfstraße



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken Sichtbarkeit Normal  
 Kamerapunkt 689.363 5.929.712 77,8  
 Zielpunkt 689.570 5.930.046 96,9  
 Foto-Richtung 39°  
 Windricht: 0°  
 Foto-Daten im Querformat: 4608 x 3456 Pixel  
 DSCN6285.JPG  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Fotobeschreibung: FP06.02 Ka FP06.02, Dargelütz, Gutshaus (ND8), von Neue Dorfstraße

FP06.03 Ka FP06.03, Dargelütz, Gutshaus (ND6), von Neue Dorfstraße



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken Sichtbarkeit Normal  
 Kamerapunkt 689.459 5.929.764 78,6  
 Zielpunkt 689.630 5.929.939 96,6  
 Foto-Richtung 47°  
 Windricht: 0°  
 Foto-Daten im Querformat: 4608 x 3456 Pixel  
 DSCN6291.JPG  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Fotobeschreibung: FP06.03 Ka FP06.03, Dargelütz, Gutshaus (ND6), von Neue Dorfstraße

FP06.04 Ka FP06.04, Dargelütz, Gutshaus (ND6), von Am Kirchturnm



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken Sichtbarkeit Normal  
 Kamerapunkt 689.402 5.929.780 77,8  
 Zielpunkt 689.569 5.929.873 92,2  
 Foto-Richtung 63°  
 Windricht: 0°  
 Foto-Daten im Querformat: 4608 x 3456 Pixel  
 DSCN6295.JPG  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Fotobeschreibung: FP06.04 Ka FP06.04, Dargelütz, Gutshaus (ND6), von Am Kirchturnm

### VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP06, Dargelütz, Gutshaus; 2022-08-24

#### WEA-Platzierung

|         |             | WEA-Typ |           | Typ                  | Nennleistung<br>[kW] | Rotor-durchmesser<br>[m] | Nabenhöhe<br>[m] | Abstand zur Kamera |               |               |               |
|---------|-------------|---------|-----------|----------------------|----------------------|--------------------------|------------------|--------------------|---------------|---------------|---------------|
| Aktuell | Hersteller  |         |           |                      |                      |                          |                  | FP06.01<br>Ka      | FP06.02<br>Ka | FP06.03<br>Ka | FP06.04<br>Ka |
| B01     | Existierend | Ja      | ENERCON   | E-82-2.000           | 2.000                | 82,0                     | 78,3             | 2.693              | 2.619         | 2.666         | 2.627         |
| B02     | Existierend | Ja      | ENERCON   | E-82-2.000           | 2.000                | 82,0                     | 78,3             | 2.644              | 2.559         | 2.593         | 2.561         |
| B03     | Existierend | Ja      | ENERCON   | E-82-2.000           | 2.000                | 82,0                     | 78,3             | 2.307              | 2.224         | 2.261         | 2.227         |
| B04     | Existierend | Ja      | ENERCON   | E-82-2.000           | 2.000                | 82,0                     | 108,3            | 2.446              | 2.344         | 2.326         | 2.326         |
| B05     | Existierend | Ja      | ENERCON   | E-82-2.000           | 2.000                | 82,0                     | 108,3            | 2.524              | 2.423         | 2.393         | 2.401         |
| B06     | Existierend | Ja      | ENERCON   | E-82-2.000           | 2.000                | 82,0                     | 78,3             | 1.964              | 1.876         | 1.903         | 1.875         |
| B07     | Existierend | Ja      | ENERCON   | E-82 E2-2.300        | 2.300                | 82,0                     | 108,4            | 2.323              | 2.223         | 2.187         | 2.199         |
| B08     | Existierend | Ja      | ENERCON   | E-82 E2-2.300        | 2.300                | 82,0                     | 108,4            | 2.084              | 1.983         | 1.962         | 1.964         |
| B09     | Existierend | Ja      | ENERCON   | E-82 E2-2.300        | 2.300                | 82,0                     | 108,4            | 1.990              | 1.895         | 1.906         | 1.887         |
| B10     | Existierend | Ja      | ENERCON   | E-82 E2-2.300        | 2.300                | 82,0                     | 108,4            | 1.854              | 1.754         | 1.749         | 1.740         |
| B11     | Existierend | Ja      | ENERCON   | E-82 E2-2.300        | 2.300                | 82,0                     | 108,4            | 1.779              | 1.678         | 1.657         | 1.659         |
| B12     | Existierend | Ja      | ENERCON   | E-82 E2-2.300        | 2.300                | 82,0                     | 108,4            | 2.872              | 2.772         | 2.740         | 2.749         |
| B13     | Existierend | Ja      | ENERCON   | E-82 E2-2.300        | 2.300                | 82,0                     | 108,4            | 2.805              | 2.706         | 2.666         | 2.681         |
| B14     | Existierend | Ja      | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0                     | 85,0             | 2.158              | 2.086         | 2.137         | 2.095         |
| B15     | Existierend | Ja      | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0                     | 85,0             | 1.745              | 1.666         | 1.709         | 1.671         |
| B16     | Existierend | Ja      | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0                     | 85,0             | 1.948              | 1.890         | 1.953         | 1.905         |
| B17     | Existierend | Ja      | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0                     | 85,0             | 1.603              | 1.545         | 1.609         | 1.560         |
| B18     | Existierend | Ja      | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0                     | 85,0             | 1.304              | 1.232         | 1.284         | 1.242         |
| B19     | Existierend | Ja      | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0                     | 85,0             | 1.966              | 1.926         | 2.002         | 1.948         |
| B20     | Existierend | Ja      | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0                     | 85,0             | 1.603              | 1.564         | 1.640         | 1.585         |
| B21     | Existierend | Ja      | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0                     | 85,0             | 1.237              | 1.197         | 1.273         | 1.219         |
| B22     | Existierend | Ja      | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0                     | 85,0             | 1.890              | 1.874         | 1.961         | 1.902         |
| B23     | Existierend | Ja      | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0                     | 85,0             | 1.430              | 1.408         | 1.492         | 1.434         |
| B24     | Existierend | Ja      | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0                     | 85,0             | 2.497              | 2.431         | 2.486         | 2.442         |
| B25     | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0                     | 85,0             | 1.131              | 1.044         | 1.076         | 1.045         |
| B26     | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0                     | 85,0             | 1.136              | 1.040         | 1.054         | 1.033         |
| B27     | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0                     | 85,0             | 1.180              | 1.080         | 1.072         | 1.065         |
| B28     | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0                     | 85,0             | 1.481              | 1.380         | 1.372         | 1.366         |
| B29     | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0                     | 85,0             | 1.570              | 1.471         | 1.475         | 1.461         |
| B30     | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0                     | 85,0             | 1.631              | 1.536         | 1.553         | 1.531         |
| PA1     | Existierend | Ja      | VESTAS    | V150-4.2-4.200       | 4.200                | 150,0                    | 169,0            | 12.073             | 11.993        | 11.920        | 11.959        |
| PA2     | Existierend | Ja      | VESTAS    | V150-4.2-4.200       | 4.200                | 150,0                    | 169,0            | 12.055             | 11.978        | 11.903        | 11.943        |
| PA3     | Existierend | Ja      | VESTAS    | V150-4.2-4.200       | 4.200                | 150,0                    | 169,0            | 11.790             | 11.714        | 11.638        | 11.680        |
| PA4     | Existierend | Ja      | VESTAS    | V150-4.2-4.200       | 4.200                | 150,0                    | 169,0            | 11.707             | 11.633        | 11.555        | 11.598        |
| PA5     | Existierend | Ja      | VESTAS    | V150-4.2-4.200       | 4.200                | 150,0                    | 169,0            | 12.388             | 12.309        | 12.235        | 12.275        |
| PA6     | Existierend | Ja      | VESTAS    | V150-4.2-4.200       | 4.200                | 150,0                    | 169,0            | 12.854             | 12.778        | 12.702        | 12.743        |
| PA7     | Existierend | Ja      | VESTAS    | V150-4.2-4.200       | 4.200                | 150,0                    | 169,0            | 13.034             | 12.960        | 12.882        | 12.925        |
| PA8     | Existierend | Ja      | VESTAS    | V150-4.2-4.200       | 4.200                | 150,0                    | 169,0            | 13.401             | 13.327        | 13.249        | 13.292        |
| WE01    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 10.378             | 10.330        | 10.241        | 10.295        |
| WE02    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 10.585             | 10.539        | 10.449        | 10.503        |
| WE03    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 10.792             | 10.751        | 10.660        | 10.716        |
| WE04    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 9.571              | 9.521         | 9.432         | 9.485         |
| WE05    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 10.742             | 10.703        | 10.612        | 10.668        |
| WE06    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 11.233             | 11.188        | 11.098        | 11.152        |
| WE07    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 11.104             | 11.059        | 10.969        | 11.023        |
| WE08    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 10.269             | 10.224        | 10.134        | 10.188        |
| WE09    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 10.506             | 10.461        | 10.371        | 10.425        |
| WE10    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 10.826             | 10.779        | 10.689        | 10.744        |
| WE11    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 10.947             | 10.902        | 10.812        | 10.867        |
| WE12    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 11.028             | 10.985        | 10.894        | 10.949        |
| WE13    | Existierend | Nein    | ENERCON   | E-40/5.40-500        | 500                  | 40,3                     | 65,0             | 10.804             | 10.761        | 10.671        | 10.726        |
| WE14    | Existierend | Nein    | JACOBS    | 43/600-600/100       | 600                  | 43,0                     | 60,0             | 9.567              | 9.519         | 9.429         | 9.483         |
| WE15    | Existierend | Nein    | JACOBS    | 43/600-600/100       | 600                  | 43,0                     | 60,0             | 9.868              | 9.818         | 9.729         | 9.782         |
| WE16    | Existierend | Nein    | JACOBS    | 43/600-600/100       | 600                  | 43,0                     | 60,0             | 9.970              | 9.922         | 9.832         | 9.886         |
| WE17    | Existierend | Nein    | JACOBS    | 43/600-600/100       | 600                  | 43,0                     | 60,0             | 11.254             | 11.206        | 11.117        | 11.170        |
| WE18    | Existierend | Nein    | JACOBS    | 43/600-600/100       | 600                  | 43,0                     | 60,0             | 11.399             | 11.349        | 11.260        | 11.313        |
| WE19    | Existierend | Nein    | NEG MICON | NM 43/600-600/150    | 600                  | 43,0                     | 60,0             | 11.505             | 11.461        | 11.371        | 11.426        |
| WE20    | Existierend | Nein    | NEG MICON | NM 43/600-600/150    | 600                  | 43,0                     | 60,0             | 11.327             | 11.283        | 11.193        | 11.247        |
| WE21    | Existierend | Nein    | NEG MICON | NM48/750-750/200     | 750                  | 48,2                     | 60,0             | 10.240             | 10.194        | 10.104        | 10.158        |
| WE22    | Existierend | Nein    | NEG MICON | NM48/750-750/200     | 750                  | 48,2                     | 60,0             | 9.740              | 9.691         | 9.601         | 9.655         |
| WE23    | Existierend | Nein    | NEG MICON | NM48/750-750/200     | 750                  | 48,2                     | 60,0             | 10.427             | 10.379        | 10.289        | 10.343        |
| WE24    | Existierend | Nein    | NEG MICON | NM48/750-750/200     | 750                  | 48,2                     | 60,0             | 9.404              | 9.352         | 9.264         | 9.316         |

(Fortsetzung nächste Seite)...



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP06, Dargelütz, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      | Hersteller     | Typ                     | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |            |            |
|---------|-------------|------|----------------|-------------------------|--------------|-------------------|-----------|--------------------|------------|------------|------------|
| Aktuell | Existierend | Nein |                |                         |              |                   |           | FP06.01 Ka         | FP06.02 Ka | FP06.03 Ka | FP06.04 Ka |
|         |             |      |                |                         | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]        | [m]        |
| WE25    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.678              | 9.623      | 9.536      | 9.587      |
| WE26    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.363              | 9.314      | 9.225      | 9.278      |
| WE27    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.611              | 9.558      | 9.470      | 9.522      |
| WE28    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.364              | 9.311      | 9.223      | 9.275      |
| WE29    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.573              | 9.516      | 9.429      | 9.480      |
| WE30    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.810              | 9.757      | 9.669      | 9.721      |
| WE31    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 11.152             | 11.111     | 11.020     | 11.075     |
| WE32    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 11.202             | 11.159     | 11.068     | 11.123     |
| WE33    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 10.424             | 10.381     | 10.290     | 10.345     |
| WE34    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.648              | 9.601      | 9.511      | 9.565      |
| WE35    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.422              | 9.367      | 9.279      | 9.331      |
| WE36    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.238              | 9.187      | 9.099      | 9.152      |
| WE37    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 10.260             | 10.211     | 10.121     | 10.175     |
| WE38    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.193              | 9.141      | 9.052      | 9.105      |
| WE39    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 11.532             | 11.481     | 11.392     | 11.445     |
| WE40    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 9.738              | 9.687      | 9.598      | 9.651      |
| WE41    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 11.016             | 10.980     | 10.888     | 10.945     |
| WE42    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 11.490             | 11.444     | 11.354     | 11.408     |
| WE43    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 11.015             | 10.977     | 10.886     | 10.942     |
| WE44    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 10.998             | 10.961     | 10.870     | 10.926     |
| WE45    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 10.805             | 10.768     | 10.676     | 10.732     |
| WE46    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 9.542              | 9.488      | 9.400      | 9.452      |
| WE47    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 11.052             | 11.013     | 10.921     | 10.977     |
| WE48    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 11.652             | 11.609     | 11.518     | 11.573     |
| WE49    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 11.397             | 11.354     | 11.263     | 11.319     |
| WE50    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 11.538             | 11.494     | 11.403     | 11.458     |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 11.265             | 11.224     | 11.133     | 11.188     |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600        | 116,8             | 140,6     | 9.919              | 9.874      | 9.784      | 9.838      |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 7.694              | 7.612      | 7.541      | 7.578      |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 7.503              | 7.423      | 7.350      | 7.389      |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000        | 160,0             | 165,0     | 7.808              | 7.725      | 7.656      | 7.692      |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.106              | 6.016      | 5.954      | 5.985      |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.907              | 5.821      | 5.754      | 5.789      |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.345              | 6.258      | 6.193      | 6.226      |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.343              | 6.259      | 6.190      | 6.226      |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.669              | 6.584      | 6.517      | 6.551      |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600        | 150,0             | 169,0     | 7.070              | 6.984      | 6.917      | 6.952      |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 7.557              | 7.471      | 7.404      | 7.439      |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 7.915              | 7.828      | 7.763      | 7.796      |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.693              | 5.605      | 5.541      | 5.573      |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 6.628              | 6.559      | 6.411      | 6.569      |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.843              | 5.760      | 5.690      | 5.727      |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 8.522              | 8.459      | 8.516      | 8.471      |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 7.515              | 7.440      | 7.363      | 7.406      |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 8.709              | 8.648      | 8.706      | 8.661      |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 6.826              | 6.758      | 6.811      | 6.769      |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 7.722              | 7.644      | 7.570      | 7.610      |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 7.054              | 6.987      | 7.042      | 6.999      |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 7.193              | 7.129      | 7.185      | 7.141      |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 7.875              | 7.795      | 7.722      | 7.761      |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 7.336              | 7.273      | 7.330      | 7.285      |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.988              | 6.909      | 6.835      | 6.875      |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 7.482              | 7.421      | 7.480      | 7.434      |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 7.631              | 7.571      | 7.631      | 7.585      |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 8.150              | 8.067      | 7.997      | 8.034      |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 7.187              | 7.104      | 7.034      | 7.071      |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 7.901              | 7.837      | 7.894      | 7.850      |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 7.750              | 7.685      | 7.741      | 7.697      |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000        | 162,0             | 169,0     | 6.368              | 6.287      | 6.215      | 6.253      |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 6.430              | 6.361      | 6.412      | 6.371      |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700        | 149,0             | 125,4     | 8.371              | 8.310      | 8.369      | 8.323      |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 8.348              | 8.284      | 8.340      | 8.296      |

(Fortsetzung nächste Seite)...

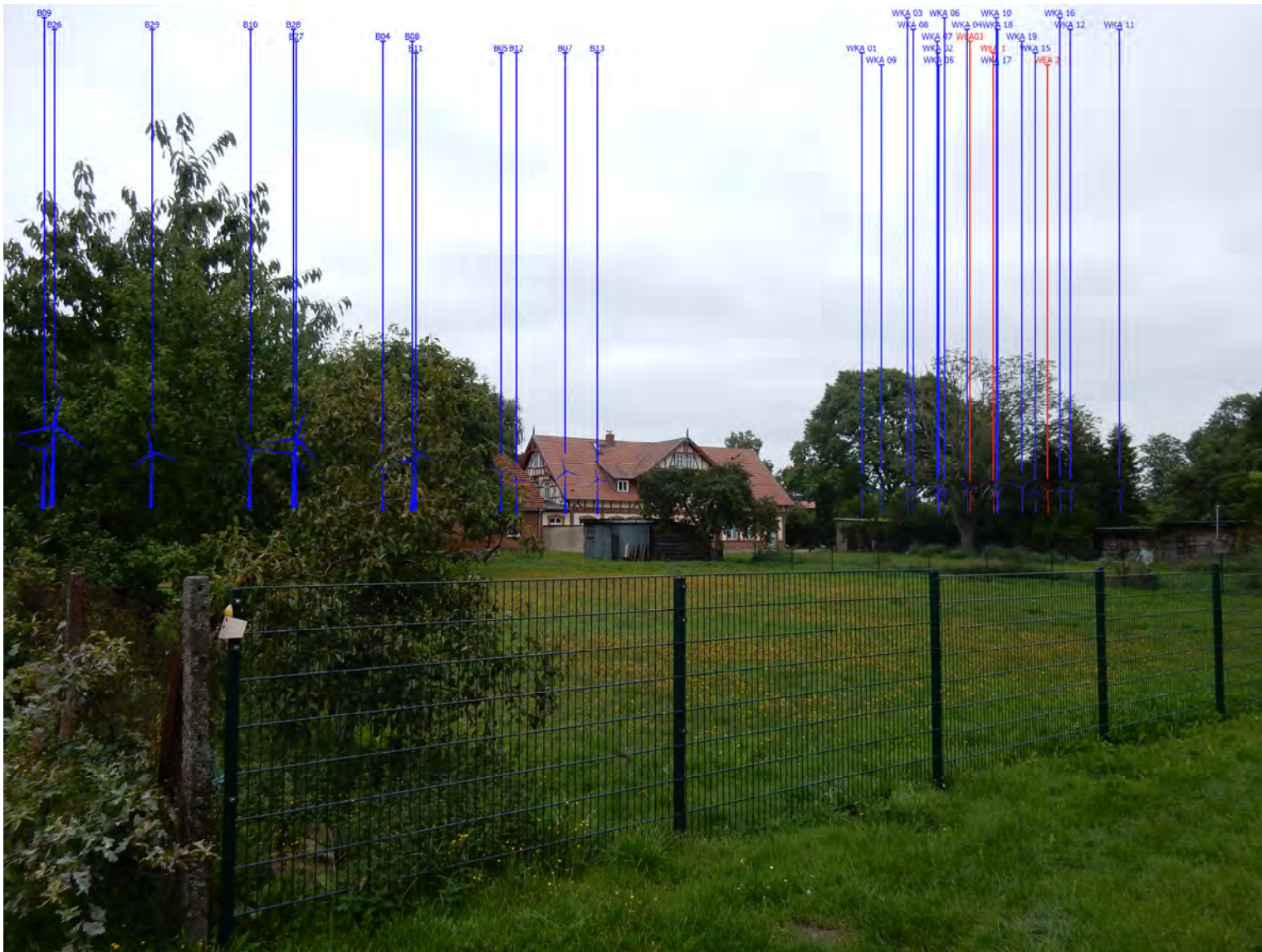
## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP06, Dargelütz, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      |              | Abstand zur Kamera   |           |            |            |            |            |       |       |
|---------|-------------|------|--------------|----------------------|-----------|------------|------------|------------|------------|-------|-------|
| Aktuell | Hersteller  | Typ  | Nennleistung | Rotor-durchmesser    | Nabenhöhe | FP06.01 Ka | FP06.02 Ka | FP06.03 Ka | FP06.04 Ka |       |       |
|         |             |      | [kW]         | [m]                  | [m]       | [m]        | [m]        | [m]        | [m]        |       |       |
| WKA 21  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750     | 66,0       | 67,0       | 8.002      | 7.921      | 7.959 | 7.925 |
| WKA 22  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750     | 66,0       | 67,0       | 7.721      | 7.640      | 7.678 | 7.644 |
| WKA 23  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750     | 66,0       | 67,0       | 7.323      | 7.241      | 7.278 | 7.245 |
| WKA 24  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750     | 66,0       | 67,0       | 7.261      | 7.177      | 7.210 | 7.179 |
| WKA 25  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750     | 66,0       | 67,0       | 7.029      | 6.944      | 6.975 | 6.945 |
| WKA 26  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 6.724      | 6.653      | 6.703 | 6.662 |
| WKA 27  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 6.909      | 6.836      | 6.883 | 6.844 |
| WKA 28  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 6.473      | 6.401      | 6.449 | 6.409 |
| WKA 29  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 7.108      | 7.033      | 7.078 | 7.040 |
| WKA 3   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0       | 60,0       | 7.582      | 7.516      | 7.570 | 7.527 |
| WKA 30  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 7.363      | 7.286      | 7.329 | 7.292 |
| WKA 31  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 6.365      | 6.285      | 6.324 | 6.290 |
| WKA 32  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 6.665      | 6.586      | 6.626 | 6.591 |
| WKA 33  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 6.835      | 6.758      | 6.801 | 6.764 |
| WKA 34  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 6.568      | 6.484      | 6.517 | 6.486 |
| WKA 35  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 6.757      | 6.671      | 6.701 | 6.671 |
| WKA 36  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 6.836      | 6.753      | 6.788 | 6.756 |
| WKA 37  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 7.007      | 6.926      | 6.963 | 6.929 |
| WKA 38  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 7.455      | 7.375      | 7.415 | 7.380 |
| WKA 39  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 7.651      | 7.575      | 7.619 | 7.582 |
| WKA 4   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0       | 60,0       | 7.426      | 7.358      | 7.411 | 7.368 |
| WKA 40  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 8.029      | 7.952      | 7.993 | 7.957 |
| WKA 41  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 7.476      | 7.402      | 7.449 | 7.410 |
| WKA 42  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 7.224      | 7.152      | 7.200 | 7.160 |
| WKA 43  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 6.999      | 6.930      | 6.981 | 6.939 |
| WKA 44  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 7.558      | 7.488      | 7.538 | 7.497 |
| WKA 46  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300     | 131,0      | 164,0      | 7.158      | 7.079      | 7.118 | 7.084 |
| WKA 47  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300     | 131,0      | 164,0      | 7.657      | 7.579      | 7.620 | 7.584 |
| WKA 48  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300     | 131,0      | 164,0      | 7.883      | 7.808      | 7.851 | 7.814 |
| WKA 49  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0       | 113,5      | 7.379      | 7.314      | 7.369 | 7.325 |
| WKA 5   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0       | 60,0       | 7.272      | 7.203      | 7.254 | 7.212 |
| WKA 50  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0       | 113,5      | 7.530      | 7.466      | 7.523 | 7.478 |
| WKA 51  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0       | 113,5      | 7.685      | 7.622      | 7.680 | 7.635 |
| WKA 52  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0       | 113,5      | 7.907      | 7.847      | 7.906 | 7.860 |
| WKA 53  | Existierend | Ja   | eno          | eno 82 2.05-2.050    | 2.050     | 82,4       | 108,0      | 8.752      | 8.689      | 8.745 | 8.701 |
| WKA 54  | Existierend | Nein | NEG MICON    | NM72C/1500-1.500/400 | 1.500     | 72,0       | 80,0       | 8.130      | 8.055      | 8.100 | 8.062 |
| WKA 55  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200     | 92,8       | 103,0      | 8.043      | 7.970      | 8.018 | 7.978 |
| WKA 56  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200     | 92,8       | 103,0      | 8.166      | 8.095      | 8.145 | 8.105 |
| WKA 57  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200     | 92,8       | 103,0      | 8.308      | 8.240      | 8.292 | 8.250 |
| WKA 58  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0       | 113,5      | 6.868      | 6.803      | 6.859 | 6.815 |
| WKA 59  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 113,5      | 7.073      | 7.011      | 7.068 | 7.023 |
| WKA 6   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0       | 60,0       | 7.757      | 7.684      | 7.731 | 7.692 |
| WKA 60  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0       | 85,0       | 6.433      | 6.357      | 6.402 | 6.364 |
| WKA 61  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0       | 113,5      | 6.671      | 6.606      | 6.661 | 6.617 |
| WKA 62  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0       | 113,5      | 6.494      | 6.427      | 6.481 | 6.438 |
| WKA 7   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0       | 60,0       | 7.855      | 7.784      | 7.834 | 7.793 |
| WKA 8   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0       | 60,0       | 7.965      | 7.897      | 7.948 | 7.907 |
| WKA 9   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0       | 60,0       | 8.081      | 8.014      | 8.068 | 8.025 |





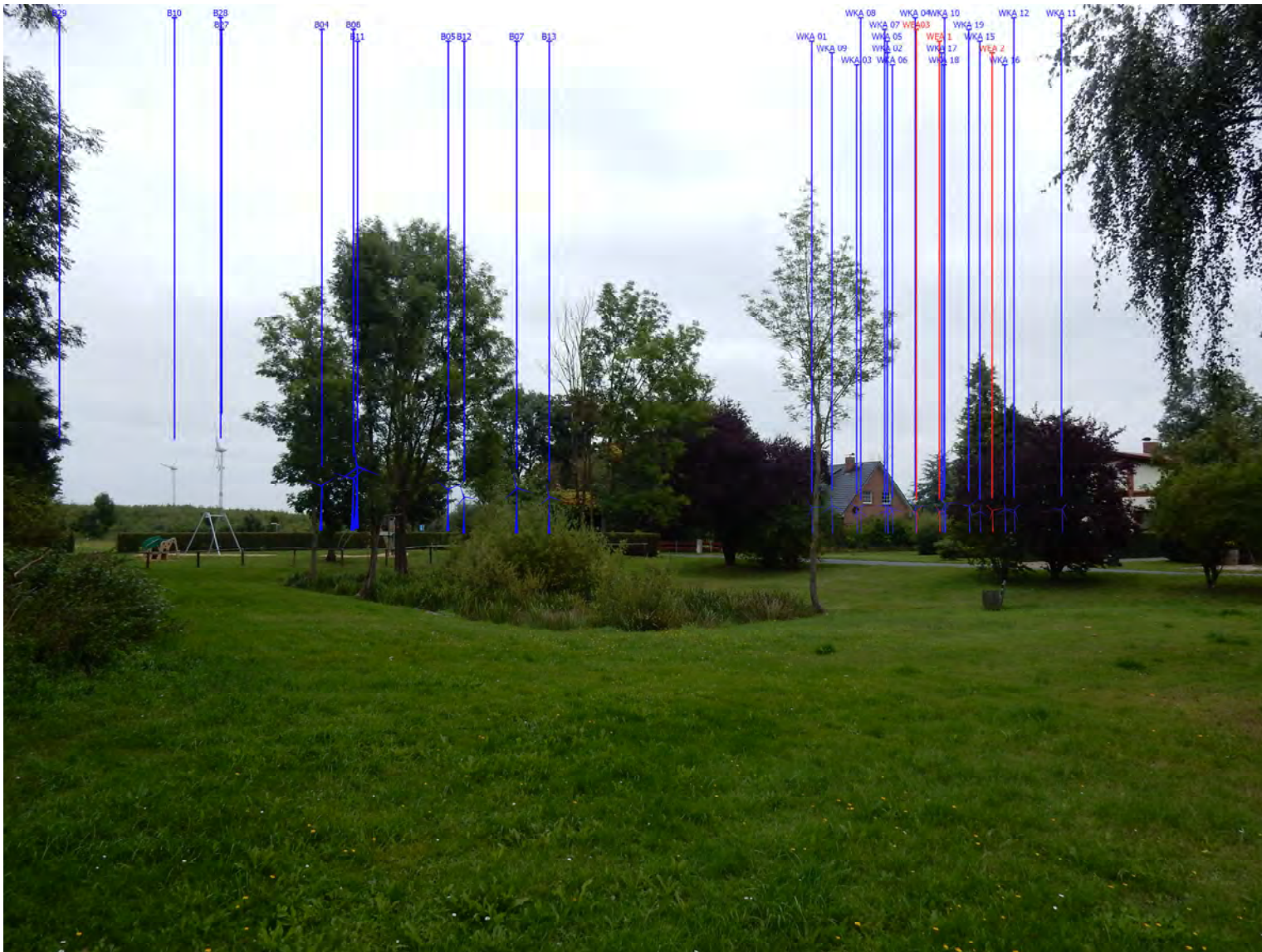
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0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

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 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 689.334 Nord: 5.929.676  
 Windrichtung: 0° Richtung des Fotos: 35°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP06.01 Ka FP06.01, Dargelütz, Gutshaus (ND8), von Koppelweg

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

Empfohlener Betrachtungsabstand: 15 cm

Fotoaufnahme: 02.09.2021 13:35:41  
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Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 689.367 Nord: 5.929.772  
Windrichtung: 0° Richtung des Fotos: 39°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP06.02 Ka FP06.02, Dargelütz, Gutshaus (ND8), von Neue Dorfstraße

Erzeugt von:  
enosite GmbH  
Straße am Zeltplatz 7  
DE-18230 Ostseebad Rerik  
+49(0)38296 747 400  
Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 02.09.2021 13:37:27  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 689.459 Nord: 5.929.764  
 Windrichtung: 0° Richtung des Fotos: 47°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP06.03 Ka FP06.03, Dargelütz, Gutshaus (ND6), von Neue Dorfstraße

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 Raimund Wörl / raimund.woerl@eno-site.com



Projekt: WEA: 172  
0108-Granzin

Empfohlener Betrachtungsabstand: 15 cm

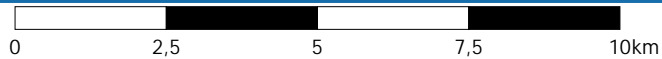
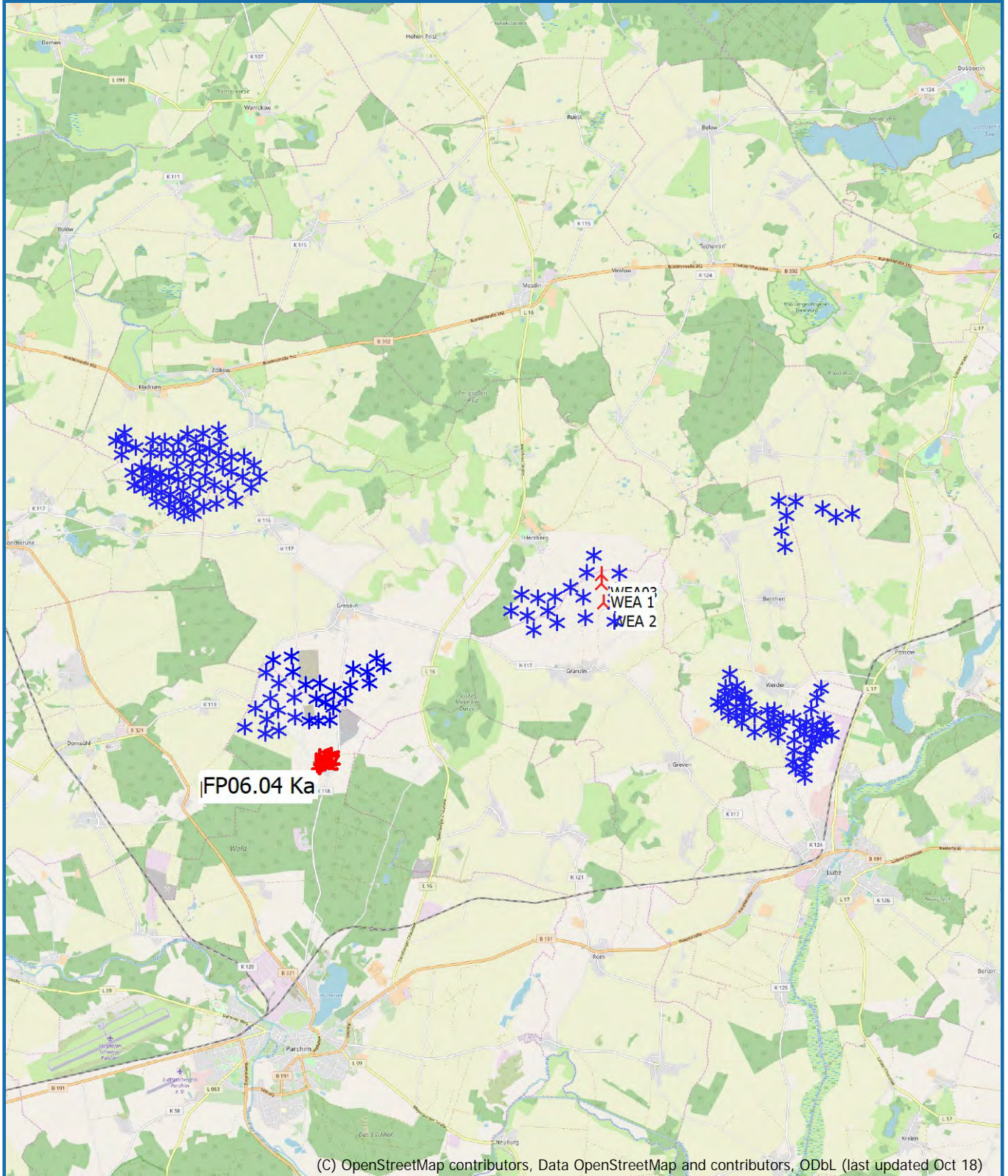
Fotoaufnahme: 02.09.2021 13:38:42  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 689.402 Nord: 5.929.780  
 Windrichtung: 0° Richtung des Fotos: 63°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP06.04 Ka FP06.04, Dargelütz, Gutshaus (ND6), von Am Kirchturm

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## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP06, Dargelütz, Gutshaus; 2022-08-24



Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.475

Neue WEA \* Existierende WEA Kamera

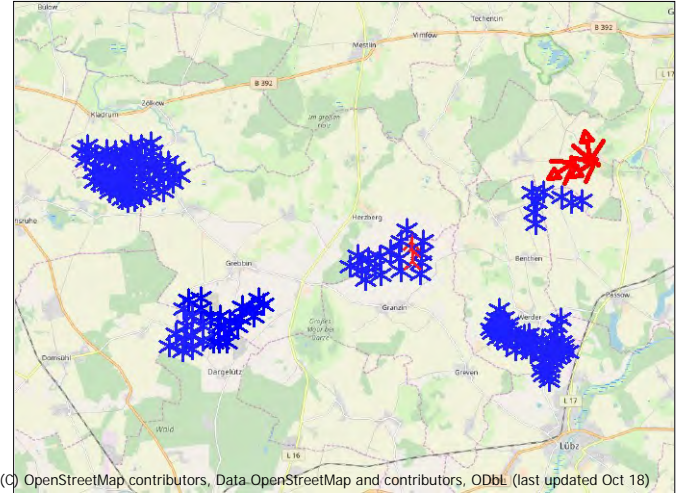


Projekt: 0108-Granzin Beschreibung: Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender: enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
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 Raimund Woerl / raimund.woerl@eno-site.com  
 Berechnet: 25.08.2022 11:12/3.5.584

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP07/08, Grambow, Park/Gutshaus; 2022-08-24



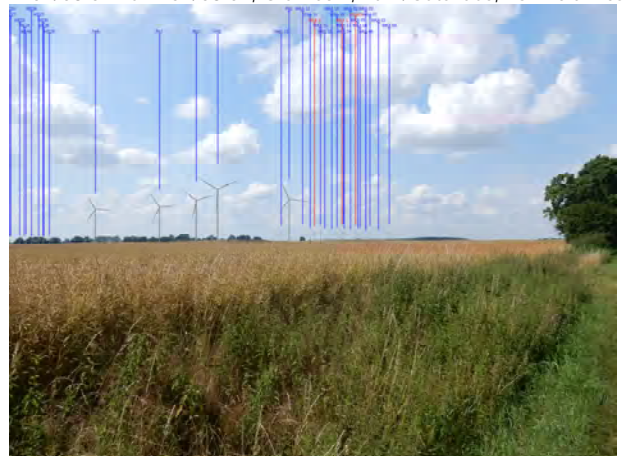
Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP07/08.01 Ka FP07/08.01, Grambow, Park/Gutshaus, von Sehlsdorfer Straße



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken wenig bewokt (2/8) Foto-Datzi im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 701.537 5.937.318 46.4 Sichtbarkeit Normal DSCN4692.JPG  
 Zielpunkt 701.351 5.937.202 71.3 Sonne Normal Gesichtsfeld: 69.4°x54.9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung 240° Windricht: 0° Fotobeschreibung: FP07/08.01 Ka FP07/08.01, Grambow, Park/Gutshaus, von Sehlsdorfer Straße

FP07/08.02 Ka FP07/08.02, Grambow, Park/Gutshaus, von Feld westlich



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken wenig bewokt (2/8) Foto-Datzi im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 702.061 5.927.237 71.5 Sichtbarkeit Normal DSCN4698.JPG  
 Zielpunkt 700.349 5.936.903 88.0 Sonne Normal Gesichtsfeld: 69.4°x54.9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung 238° Windricht: 0° Fotobeschreibung: FP07/08.02 Ka FP07/08.02, Grambow, Park/Gutshaus, von Feld westlich

FP07/08.03 Ka FP07/08.03, Grambow, Park/Gutshaus, vor Gutshaus



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken wenig bewokt (2/8) Foto-Datzi im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 701.383 5.937.322 68.8 Sichtbarkeit Normal DSCN4884.JPG  
 Zielpunkt 701.349 5.937.496 82.9 Sonne Normal Gesichtsfeld: 83.2°x67.3° Brennweite: 20 mm Film: 35x26 mm  
 Foto-Richtung 351° Windricht: 0° Fotobeschreibung: FP07/08.03 Ka FP07/08.03, Grambow, Park/Gutshaus, vor Gutshaus



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP07/08, Grambow, Park/Gutshaus; 2022-08-24

### WEA-Platzierung

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |            |
|------|-------------|------|------------|----------------------|--------------|-------------------|-----------|--------------------|------------|------------|
|      | Aktuell     |      |            |                      |              |                   |           | FP07/08.01         | FP07/08.02 | FP07/08.03 |
|      |             |      |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]        |
| B01  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 14.250             | 13.592     | 14.108     |
| B02  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 13.827             | 13.170     | 13.686     |
| B03  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 13.925             | 13.272     | 13.784     |
| B04  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 12.633             | 11.988     | 12.495     |
| B05  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 12.365             | 11.723     | 12.228     |
| B06  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 13.763             | 13.116     | 13.625     |
| B07  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 12.424             | 11.787     | 12.289     |
| B08  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 12.836             | 12.196     | 12.700     |
| B09  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 13.443             | 12.798     | 13.305     |
| B10  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 13.223             | 12.583     | 13.086     |
| B11  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 13.051             | 12.416     | 12.916     |
| B12  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 12.068             | 11.423     | 11.930     |
| B13  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 11.974             | 11.333     | 11.838     |
| B14  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.310             | 13.659     | 14.170     |
| B15  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.103             | 13.458     | 13.965     |
| B16  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.615             | 13.968     | 14.476     |
| B17  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.558             | 13.916     | 14.421     |
| B18  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.280             | 13.643     | 14.145     |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 15.015             | 14.369     | 14.877     |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.875             | 14.234     | 14.738     |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.734             | 14.099     | 14.599     |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 15.395             | 14.753     | 15.258     |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 15.046             | 14.409     | 14.911     |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.490             | 13.835     | 14.349     |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 14.020             | 13.386     | 13.885     |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 13.819             | 13.187     | 13.685     |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 13.594             | 12.964     | 13.460     |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 13.400             | 12.766     | 13.266     |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 13.507             | 12.869     | 13.371     |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 13.660             | 13.020     | 13.523     |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 2.331              | 1.718      | 2.199      |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 2.358              | 1.810      | 2.241      |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 2.666              | 2.152      | 2.557      |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 2.854              | 2.398      | 2.759      |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 2.013              | 1.441      | 1.889      |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 1.635              | 1.231      | 1.543      |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 1.618              | 1.360      | 1.557      |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 1.397              | 1.301      | 1.367      |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.320              | 6.065      | 6.277      |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.277              | 6.044      | 6.239      |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.905              | 6.715      | 6.878      |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.445              | 6.104      | 6.382      |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 7.157              | 6.968      | 7.130      |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.244              | 6.083      | 6.223      |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.218              | 6.042      | 6.193      |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.613              | 6.359      | 6.570      |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.457              | 6.223      | 6.419      |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.192              | 5.984      | 6.160      |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.361              | 6.172      | 6.333      |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.486              | 6.310      | 6.461      |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.667              | 6.472      | 6.639      |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 6.632              | 6.302      | 6.572      |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 6.306              | 5.992      | 6.250      |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 6.445              | 6.151      | 6.393      |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 5.898              | 5.729      | 5.874      |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 5.599              | 5.437      | 5.577      |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 6.383              | 6.256      | 6.370      |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 6.351              | 6.203      | 6.332      |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 60,0      | 6.474              | 6.211      | 6.429      |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 6.483              | 6.164      | 6.425      |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 6.152              | 5.895      | 6.108      |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 6.436              | 6.075      | 6.369      |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP07/08, Grambow, Park/Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ | Hersteller  | Typ  | Nennleistung   | Rotor-durchmesser       | Nabenhöhe | Abstand zur Kamera |               |               |        |        |
|---------|-------------|------|----------------|-------------------------|-----------|--------------------|---------------|---------------|--------|--------|
|         |             |      |                |                         |           | FP07/08.01 Ka      | FP07/08.02 Ka | FP07/08.03 Ka |        |        |
| Aktuell |             |      | [kW]           | [m]                     | [m]       | [m]                | [m]           | [m]           |        |        |
| WE25    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.020         | 5.661  | 5.953  |
| WE26    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.718         | 6.371  | 6.654  |
| WE27    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.245         | 5.896  | 6.180  |
| WE28    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.324         | 5.950  | 6.254  |
| WE29    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 5.876         | 5.490  | 5.802  |
| WE30    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.107         | 5.772  | 6.046  |
| WE31    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.782         | 6.626  | 6.762  |
| WE32    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.519         | 6.362  | 6.498  |
| WE33    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.715         | 6.482  | 6.677  |
| WE34    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.721         | 6.406  | 6.665  |
| WE35    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.178         | 5.799  | 6.106  |
| WE36    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.632         | 6.265  | 6.563  |
| WE37    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.223         | 5.950  | 6.176  |
| WE38    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 6.546         | 6.168  | 6.475  |
| WE39    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 5.376         | 5.223  | 5.355  |
| WE40    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 6.286         | 5.954  | 6.225  |
| WE41    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 7.425         | 7.266  | 7.405  |
| WE42    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 6.087         | 5.952  | 6.071  |
| WE43    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 7.106         | 6.942  | 7.084  |
| WE44    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 7.275         | 7.112  | 7.254  |
| WE45    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 7.291         | 7.110  | 7.265  |
| WE46    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 6.177         | 5.813  | 6.109  |
| WE47    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 6.936         | 6.772  | 6.914  |
| WE48    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 6.386         | 6.275  | 6.376  |
| WE49    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 6.520         | 6.384  | 6.504  |
| WE50    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 6.218         | 6.091  | 6.204  |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 6.642         | 6.494  | 6.624  |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600     | 116,8              | 140,6         | 6.790         | 6.506  | 6.741  |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 6.735         | 6.106  | 6.601  |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 6.897         | 6.284  | 6.767  |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000     | 160,0              | 165,0         | 6.650         | 6.013  | 6.514  |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 8.484         | 7.838  | 8.346  |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 8.557         | 7.924  | 8.422  |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 8.172         | 7.531  | 8.035  |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 8.098         | 7.468  | 7.964  |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 7.809         | 7.172  | 7.673  |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600     | 150,0              | 169,0         | 7.410         | 6.771  | 7.273  |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 6.947         | 6.303  | 6.809  |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 6.652         | 6.000  | 6.511  |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 8.842         | 8.201  | 8.705  |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500     | 70,5               | 64,7          | 15.455        | 14.774 | 15.302 |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 8.572         | 7.950  | 8.441  |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 16.783        | 16.105 | 16.629 |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 6.905         | 6.315  | 6.782  |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 17.016        | 16.339 | 16.862 |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 15.592        | 14.912 | 15.440 |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 6.677         | 6.072  | 6.550  |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 15.807        | 15.126 | 15.654 |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 16.009        | 15.329 | 15.856 |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 6.528         | 5.911  | 6.397  |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 16.209        | 15.529 | 16.057 |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 7.410         | 6.801  | 7.282  |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 16.412        | 15.732 | 16.259 |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 16.614        | 15.934 | 16.461 |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 6.281         | 5.650  | 6.146  |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 7.235         | 6.609  | 7.102  |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 16.438        | 15.759 | 16.284 |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 16.243        | 15.564 | 16.090 |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000     | 162,0              | 169,0         | 8.037         | 7.419  | 7.907  |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500     | 70,5               | 64,7          | 15.319        | 14.638 | 15.167 |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700     | 149,0              | 125,4         | 16.880        | 16.202 | 16.726 |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 16.566        | 15.889 | 16.413 |

(Fortsetzung nächste Seite)...

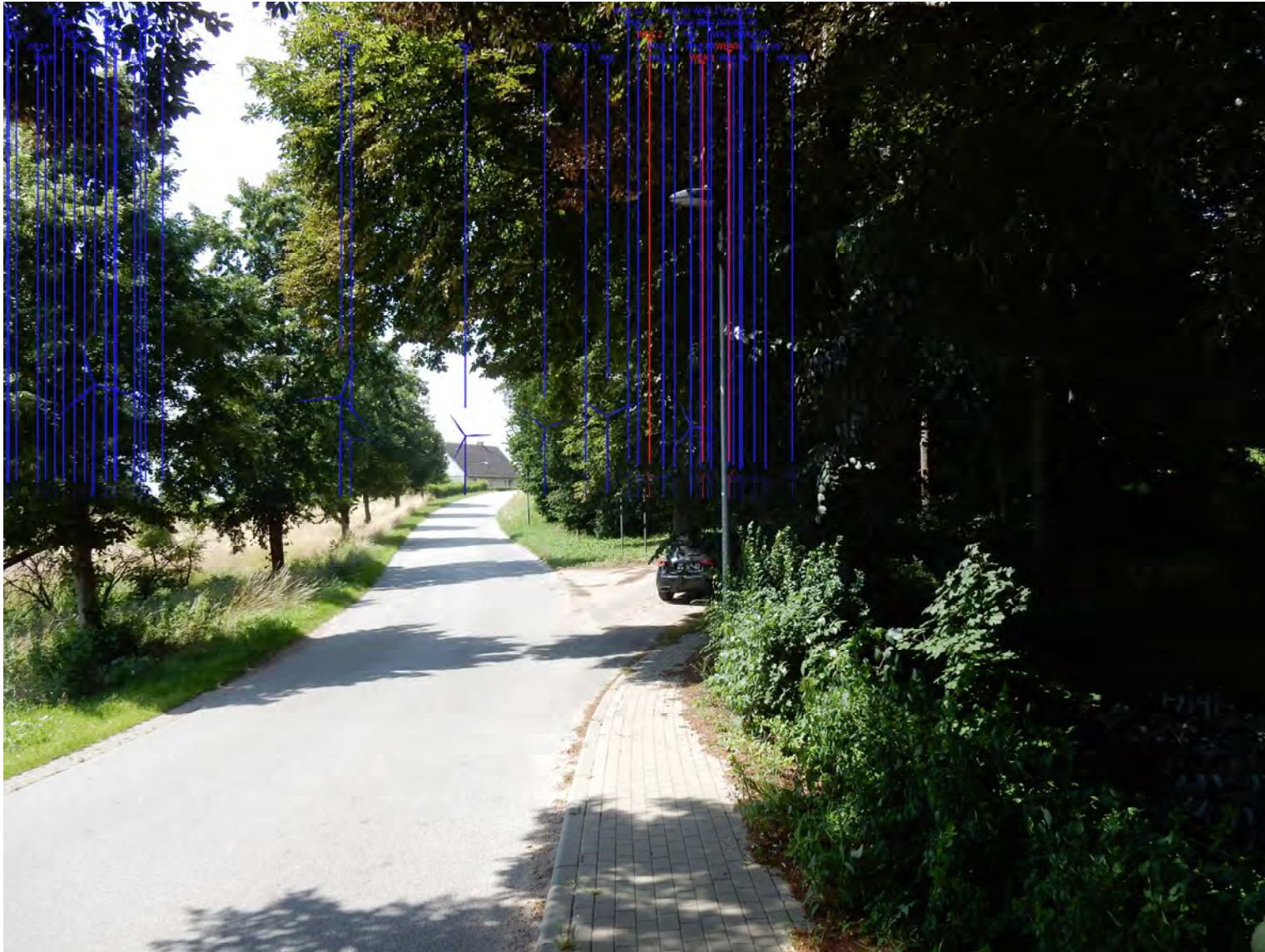


## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP07/08, Grambow, Park/Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      |              |                      | Abstand zur Kamera |               |               |               |        |        |
|---------|-------------|------|--------------|----------------------|--------------------|---------------|---------------|---------------|--------|--------|
| Aktuell | Hersteller  | Typ  | Nennleistung | Rotor-durchmesser    | Nabenhöhe          | FP07/08.01 Ka | FP07/08.02 Ka | FP07/08.03 Ka |        |        |
|         |             |      | [kW]         | [m]                  | [m]                | [m]           | [m]           | [m]           |        |        |
| WKA 21  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750              | 66,0          | 67,0          | 14.712        | 14.036 | 14.558 |
| WKA 22  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750              | 66,0          | 67,0          | 14.650        | 13.973 | 14.496 |
| WKA 23  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750              | 66,0          | 67,0          | 14.410        | 13.732 | 14.257 |
| WKA 24  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750              | 66,0          | 67,0          | 14.128        | 13.450 | 13.975 |
| WKA 25  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750              | 66,0          | 67,0          | 13.909        | 13.230 | 13.756 |
| WKA 26  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 15.304        | 14.624 | 15.152 |
| WKA 27  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 15.155        | 14.474 | 15.002 |
| WKA 28  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 15.075        | 14.395 | 14.923 |
| WKA 29  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 15.015        | 14.336 | 14.862 |
| WKA 3   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0          | 60,0          | 16.025        | 15.345 | 15.871 |
| WKA 30  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 14.961        | 14.282 | 14.808 |
| WKA 31  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 14.354        | 13.674 | 14.202 |
| WKA 32  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 14.503        | 13.823 | 14.350 |
| WKA 33  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 14.805        | 14.125 | 14.653 |
| WKA 34  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 13.995        | 13.315 | 13.842 |
| WKA 35  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 13.787        | 13.107 | 13.634 |
| WKA 36  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 14.158        | 13.478 | 14.005 |
| WKA 37  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 14.412        | 13.733 | 14.259 |
| WKA 38  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 14.697        | 14.018 | 14.543 |
| WKA 39  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 15.128        | 14.450 | 14.974 |
| WKA 4   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0          | 60,0          | 15.822        | 15.143 | 15.669 |
| WKA 40  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 15.058        | 14.382 | 14.904 |
| WKA 41  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 15.295        | 14.616 | 15.142 |
| WKA 42  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 15.350        | 14.671 | 15.197 |
| WKA 43  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 15.517        | 14.837 | 15.364 |
| WKA 44  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 15.650        | 14.971 | 15.496 |
| WKA 46  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300              | 131,0         | 164,0         | 14.613        | 13.934 | 14.460 |
| WKA 47  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300              | 131,0         | 164,0         | 14.907        | 14.229 | 14.753 |
| WKA 48  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300              | 131,0         | 164,0         | 15.215        | 14.537 | 15.061 |
| WKA 49  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0          | 113,5         | 15.994        | 15.314 | 15.841 |
| WKA 5   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0          | 60,0          | 15.622        | 14.942 | 15.469 |
| WKA 50  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0          | 113,5         | 16.206        | 15.526 | 16.053 |
| WKA 51  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0          | 113,5         | 16.418        | 15.739 | 16.265 |
| WKA 52  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0          | 113,5         | 16.647        | 15.968 | 16.494 |
| WKA 53  | Existierend | Ja   | eno          | eno 82 2.05-2.050    | 2.050              | 82,4          | 108,0         | 16.818        | 16.141 | 16.664 |
| WKA 54  | Existierend | Nein | NEG MICON    | NM72C/1500-1.500/400 | 1.500              | 72,0          | 80,0          | 15.398        | 14.722 | 15.244 |
| WKA 55  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200              | 92,8          | 103,0         | 15.609        | 14.932 | 15.455 |
| WKA 56  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200              | 92,8          | 103,0         | 15.903        | 15.226 | 15.750 |
| WKA 57  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200              | 92,8          | 103,0         | 16.182        | 15.505 | 16.028 |
| WKA 58  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0          | 113,5         | 15.856        | 15.176 | 15.704 |
| WKA 59  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 113,5         | 16.133        | 15.453 | 15.980 |
| WKA 6   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0          | 60,0          | 15.462        | 14.784 | 15.309 |
| WKA 60  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0          | 85,0          | 14.787        | 14.106 | 14.634 |
| WKA 61  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0          | 113,5         | 15.728        | 15.048 | 15.576 |
| WKA 62  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0          | 113,5         | 15.547        | 14.866 | 15.395 |
| WKA 7   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0          | 60,0          | 15.720        | 15.042 | 15.567 |
| WKA 8   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0          | 60,0          | 15.990        | 15.312 | 15.837 |
| WKA 9   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0          | 60,0          | 16.222        | 15.544 | 16.069 |



Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 12:48:32  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 701.537 Nord: 5.937.318  
 Windrichtung: 0° Richtung des Fotos: 240°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP07/08.01 Ka FP07/08.01, Grambow, Park/Gutshaus, von Sehlsdorfer Straße

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

### Empfohlener Betrachtungsabstand: 15 cm

Fotoaufnahme: 13.07.2021 12:55:10  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 700.861 Nord: 5.937.237  
 Windrichtung: 0° Richtung des Fotos: 238°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP07/08.02 Ka FP07/08.02, Grambow, Park/Gutshaus, von Feld westlich

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com





Projekt:  
0108-Granzin

Empfohlener Betrachtungsabstand: 11 cm

Fotoaufnahme: 13.07.2021 12:43:38

Gesichtsfeld: 83,2°x67,3° Brennweite: 20 mm Film: 35x26 mm Pixel: 4608x3456

Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 701.383 Nord: 5.937.322

Windrichtung: 0° Richtung des Fotos: 351°

Software: windPRO version 3.5.584

Fotobeschreibung.: FP07/08.03 Ka FP07/08.03, Grambow, Park/Gutshaus, vor Gutshaus

Erzeugt von:

enosite GmbH

Straße am Zeltplatz 7

DE-18230 Ostseebad Rerik

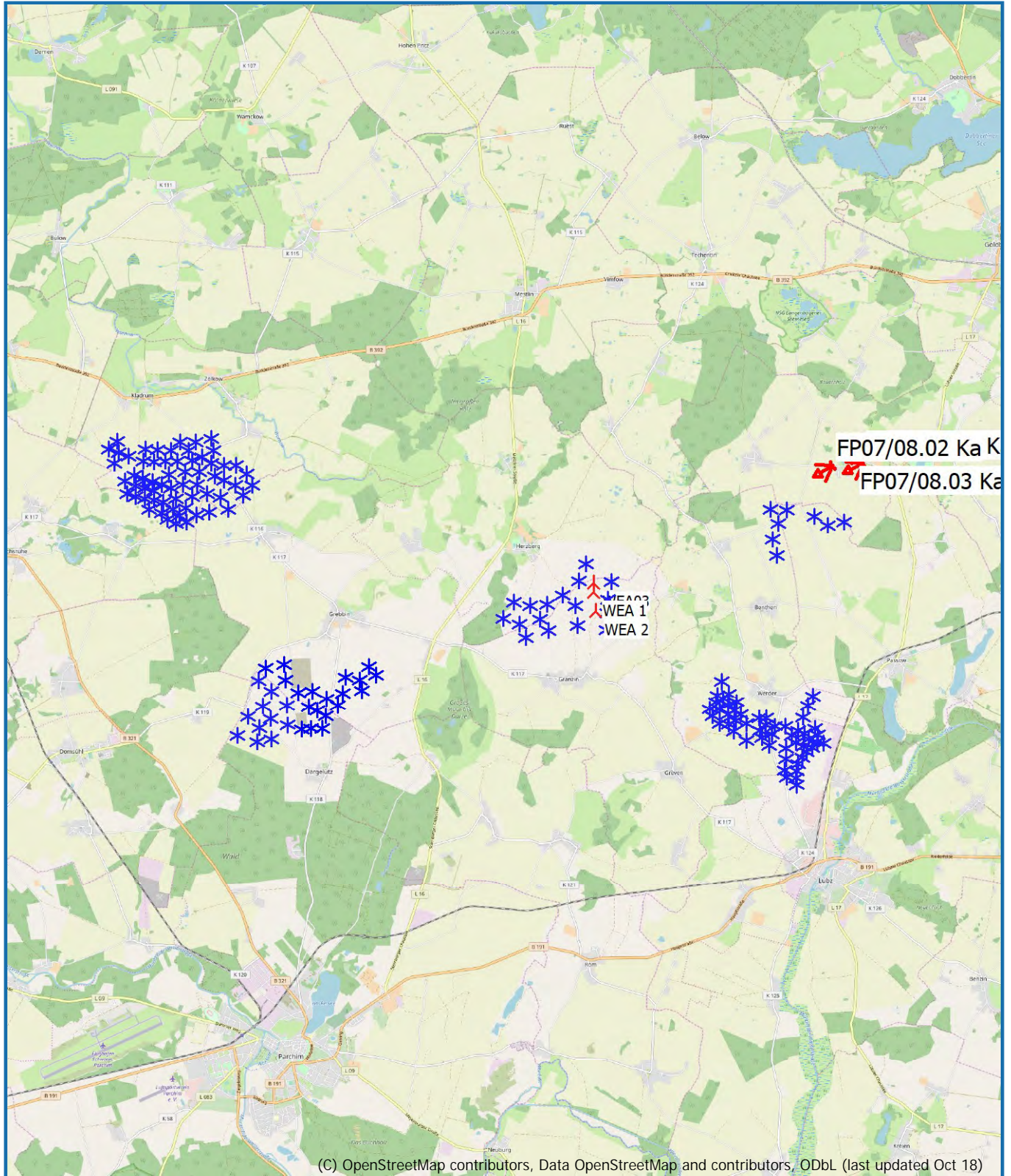
+49(0)38296 747 400

Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP07/08, Grambow, Park/Gutshaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)



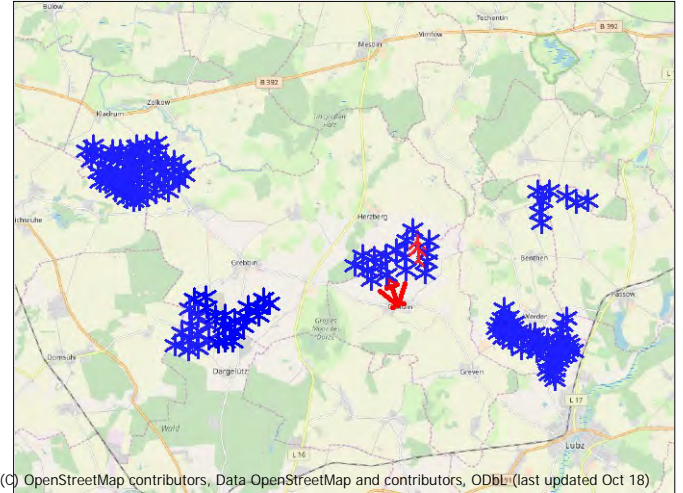
Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 693.031 Nord: 5.933.656

Neue WEA (red star), Existierende WEA (blue star), Kamera (red star with camera icon)



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP09, Granzin, Pfarrhaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP09.01 Ka FP09.01, Granzin, Pfarrhaus, von Lange Straße



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken Schwer bedeckt mit Wolken (6/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 695.044 5.932.218 67,0 Sichtbarkei Normal  
 Zielpunkt 695.009 5.932.312 75,3 Sonne Normal  
 Foto-Richtung 342° Windricht. 0°  
 Geschichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Beschreibung: FP09.01 Ka FP09.01, Granzin, Pfarrhaus, von Lange Straße

FP09.01 Ka(r) FP09.01, Granzin, Pfarrhaus, davor von Lange Straße (fotorealistisch)



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken Schwer bedeckt mit Wolken (6/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 695.044 5.932.218 67,0 Sichtbarkei Normal  
 Zielpunkt 695.009 5.932.312 75,3 Sonne Normal  
 Foto-Richtung 342° Windricht. 0°  
 Geschichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Beschreibung: FP09.01 Ka(r) FP09.01, Granzin, Pfarrhaus, davor von Lange Straße (fotorealistisch)

## WEA-Platzierung

| WEA-Id | Status      | Ja | WEA-Typ |               | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|--------|-------------|----|---------|---------------|-------------------|----------------------|---------------|--------------------|----------------|
|        |             |    | Aktuell | Hersteller    |                   |                      |               | Typ                | FP09.01 Ka [m] |
| B01    | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 6.785              | 6.785          |
| B02    | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 6.367              | 6.367          |
| B03    | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 6.342              | 6.342          |
| B04    | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 4.974              | 4.974          |
| B05    | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 4.662              | 4.662          |
| B06    | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 6.063              | 6.063          |
| B07    | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 4.624              | 4.624          |
| B08    | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.053              | 5.053          |
| B09    | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.731              | 5.731          |
| B10    | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.429              | 5.429          |
| B11    | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.188              | 5.188          |
| B12    | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 4.467              | 4.467          |
| B13    | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 4.281              | 4.281          |
| B14    | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.662              | 6.662          |
| B15    | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.337              | 6.337          |
| B16    | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.880              | 6.880          |
| B17    | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.733              | 6.733          |
| B18    | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.391              | 6.391          |

(Fortsetzung nächste Seite)...



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP09, Granzin, Pfarrhaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |
|------|-------------|------|------------|----------------------|-------------------|----------------------|---------------|--------------------|-------------------|
|      | Aktuell     |      |            |                      |                   |                      |               | FP09.01 Ka [m]     | FP09.01 Ka(r) [m] |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.239              | 7.239             |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.018              | 7.018             |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 6.801              | 6.801             |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.535              | 7.535             |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.121              | 7.121             |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 6.937              | 6.937             |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.084              | 6.084             |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 5.870              | 5.870             |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 5.626              | 5.626             |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 5.499              | 5.499             |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 5.654              | 5.654             |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 5.844              | 5.844             |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 5.969              | 5.969             |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 5.898              | 5.898             |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 5.604              | 5.604             |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 5.487              | 5.487             |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 6.251              | 6.251             |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 6.665              | 6.665             |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 6.819              | 6.819             |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 7.179              | 7.179             |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 4.628              | 4.628             |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 4.842              | 4.842             |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.308              | 5.308             |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.748              | 3.748             |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.361              | 5.361             |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.524              | 5.524             |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.380              | 5.380             |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 4.627              | 4.627             |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 4.824              | 4.824             |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.073              | 5.073             |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.263              | 5.263             |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.394              | 5.394             |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.226              | 5.226             |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 3.832              | 3.832             |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 4.040              | 4.040             |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 4.218              | 4.218             |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 5.435              | 5.435             |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 5.502              | 5.502             |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 5.852              | 5.852             |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 5.658              | 5.658             |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 60,0          | 4.537              | 4.537             |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 3.966              | 3.966             |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 4.620              | 4.620             |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 3.540              | 3.540             |
| WE25 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.693              | 3.693             |
| WE26 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.630              | 3.630             |
| WE27 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.706              | 3.706             |
| WE28 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.437              | 3.437             |
| WE29 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.509              | 3.509             |
| WE30 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.888              | 3.888             |
| WE31 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 5.631              | 5.631             |
| WE32 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 5.586              | 5.586             |
| WE33 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 4.840              | 4.840             |
| WE34 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.971              | 3.971             |
| WE35 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.443              | 3.443             |
| WE36 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.431              | 3.431             |
| WE37 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 4.458              | 4.458             |
| WE38 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.330              | 3.330             |
| WE39 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 5.585              | 5.585             |
| WE40 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 3.877              | 3.877             |
| WE41 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 5.750              | 5.750             |
| WE42 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 5.742              | 5.742             |
| WE43 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 5.618              | 5.618             |

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## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP09, Granzin, Pfarrhaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      |                |                         | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |        |
|---------|-------------|------|----------------|-------------------------|-------------------|----------------------|---------------|--------------------|--------|
| Aktuell | Hersteller  | Typ  |                | FP09.01 Ka [m]          |                   |                      |               | FP09.01 Ka(r) [m]  |        |
| WE44    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 5.670              | 5.670  |
| WE45    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 5.482              | 5.482  |
| WE46    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 3.592              | 3.592  |
| WE47    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 5.588              | 5.588  |
| WE48    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 6.003              | 6.003  |
| WE49    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 5.787              | 5.787  |
| WE50    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 5.833              | 5.833  |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          | 5.696              | 5.696  |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600             | 116,8                | 140,6         | 4.315              | 4.315  |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 2.010              | 2.010  |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 1.626              | 1.626  |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000             | 160,0                | 165,0         | 2.208              | 2.208  |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 2.048              | 2.048  |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 1.585              | 1.585  |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 1.796              | 1.796  |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 1.429              | 1.429  |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 1.693              | 1.693  |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600             | 150,0                | 169,0         | 1.843              | 1.843  |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 2.189              | 2.189  |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 2.575              | 2.575  |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 1.936              | 1.936  |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500             | 70,5                 | 64,7          | 9.448              | 9.448  |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 1.268              | 1.268  |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 11.286             | 11.286 |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 1.401              | 1.401  |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 11.529             | 11.529 |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 9.642              | 9.642  |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         | 1.730              | 1.730  |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 9.903              | 9.903  |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 10.111             | 10.111 |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 1.985              | 1.985  |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 10.317             | 10.317 |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 1.185              | 1.185  |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 10.524             | 10.524 |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 10.731             | 10.731 |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 2.370              | 2.370  |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         | 1.622              | 1.622  |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 10.749             | 10.749 |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 10.545             | 10.545 |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000             | 162,0                | 169,0         | 1.109              | 1.109  |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500             | 70,5                 | 64,7          | 9.254              | 9.254  |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700             | 149,0                | 125,4         | 11.272             | 11.272 |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 11.059             | 11.059 |
| WKA 21  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 9.650              | 9.650  |
| WKA 22  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 9.453              | 9.453  |
| WKA 23  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 9.067              | 9.067  |
| WKA 24  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 8.832              | 8.832  |
| WKA 25  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          | 8.544              | 8.544  |
| WKA 26  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 9.388              | 9.388  |
| WKA 27  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 9.376              | 9.376  |
| WKA 28  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 9.100              | 9.100  |
| WKA 29  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 9.380              | 9.380  |
| WKA 3   | Existierend | Nein | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          | 10.315             | 10.315 |
| WKA 30  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 9.475              | 9.475  |
| WKA 31  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 8.514              | 8.514  |
| WKA 32  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 8.781              | 8.781  |
| WKA 33  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 9.089              | 9.089  |
| WKA 34  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 8.352              | 8.352  |
| WKA 35  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 8.300              | 8.300  |
| WKA 36  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 8.619              | 8.619  |
| WKA 37  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 8.897              | 8.897  |
| WKA 38  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 9.340              | 9.340  |
| WKA 39  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000             | 71,0                 | 85,0          | 9.743              | 9.743  |

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## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP09, Granzin, Pfarrhaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|         |             | WEA-Typ |           | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |
|---------|-------------|---------|-----------|----------------------|-------------------|----------------------|---------------|--------------------|-------------------|
| Aktuell | Hersteller  |         |           |                      |                   |                      |               | FP09.01 Ka [m]     | FP09.01 Ka(r) [m] |
| WKA 4   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 10.100             | 10.100            |
| WKA 40  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 9.899              | 9.899             |
| WKA 41  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 9.765              | 9.765             |
| WKA 42  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 9.674              | 9.674             |
| WKA 43  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 9.675              | 9.675             |
| WKA 44  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 10.050             | 10.050            |
| WKA 46  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 9.122              | 9.122             |
| WKA 47  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 9.594              | 9.594             |
| WKA 48  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 9.926              | 9.926             |
| WKA 49  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 10.193             | 10.193            |
| WKA 5   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 9.885              | 9.885             |
| WKA 50  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 10.410             | 10.410            |
| WKA 51  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 10.628             | 10.628            |
| WKA 52  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 10.890             | 10.890            |
| WKA 53  | Existierend | Ja      | eno       | eno 82 2.05-2.050    | 2.050             | 82,4                 | 108,0         | 11.426             | 11.426            |
| WKA 54  | Existierend | Nein    | NEG MICON | NM72C/1500-1.500/400 | 1.500             | 72,0                 | 80,0          | 10.180             | 10.180            |
| WKA 55  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 10.274             | 10.274            |
| WKA 56  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 10.533             | 10.533            |
| WKA 57  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 10.789             | 10.789            |
| WKA 58  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 9.847              | 9.847             |
| WKA 59  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 113,5         | 10.137             | 10.137            |
| WKA 6   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 10.026             | 10.026            |
| WKA 60  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 8.869              | 8.869             |
| WKA 61  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 9.662              | 9.662             |
| WKA 62  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 9.448              | 9.448             |
| WKA 7   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 10.250             | 10.250            |
| WKA 8   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 10.487             | 10.487            |
| WKA 9   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 10.698             | 10.698            |



Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 02.09.2021 11:36:53  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 695.044 Nord: 5.932.218  
 Windrichtung: 0° Richtung des Fotos: 342°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP09.01 Ka FP09.01, Granzin, Pfarrhaus, von Lange Straße

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

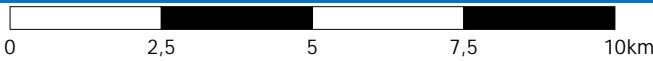
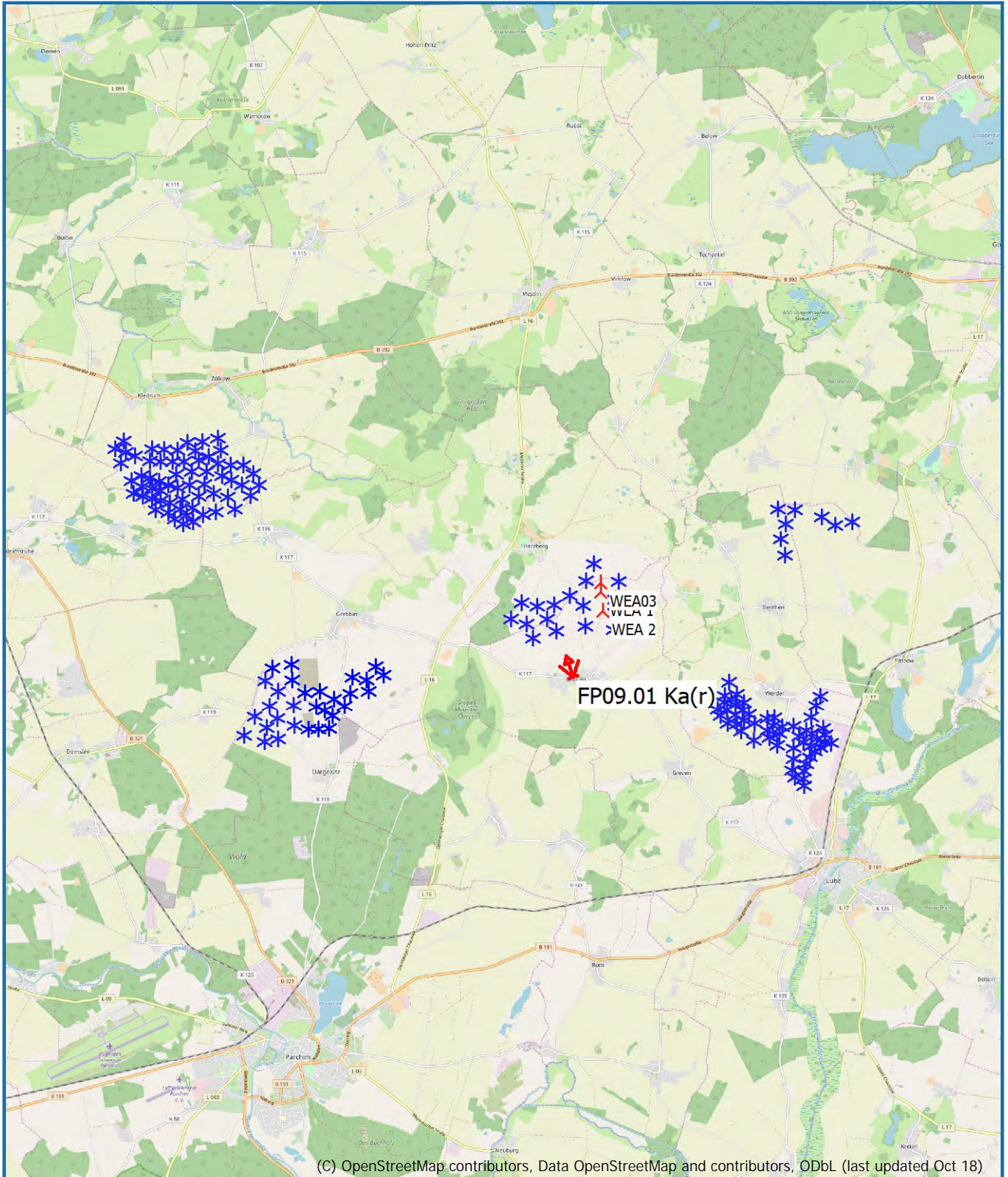
Fotografie: 02.09.2021 11:36:53  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 695.044 Nord: 5.932.218  
 Windrichtung: 0° Richtung des Fotos: 342°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP09.01 Ka(r) FP09.01, Granzin, Pfarrhaus, davor von Lange Straße (fotorealistisch)

Erzeugt von:  
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 Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP09, Granzin, Pfarrhaus; 2022-08-24



Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

- Neue WEA
- Existierende WEA
- Kamera



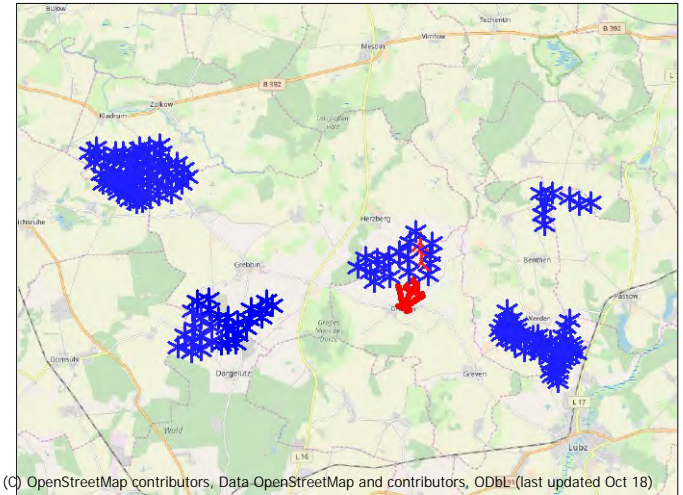
Projekt:  
0108-Granzin

Beschreibung:  
Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender:  
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Berechnet:  
25.08.2022 13:12/3.5.584

VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP10, Granzin, Kirche; 2022-08-24



Maßstab 1:250.000  
 \* Neue WEA      \* Existierende WEA      \* Kamera

FP10.01 Ka FP10.01, Granzin, Kirche, von Rasenfläche



UTM (north) ETCSZP Zone 32 Ost Nord 2 Wellen Höhenliste (m) Foto-Daten im Quartermaß: 4028 x 2454 Pixel  
 Kamerapunkt: 495 133 5 932 229 46,3 Schichten/Wellen: 2026(21) \* 95  
 Zubehör: 495 133 5 932 267 114,4 Sonde Normal Geschwindigkeit: 49 \* V4 \* 0' Braunwelle: 20 mm Film  
 Foto-Bildung: 247

FP10.01 Ka(r) FP10.01, Granzin, Kirche, von Rasenfläche (fotorealistisch)



UTM (north) ETCSZP Zone 32 Ost Nord 2 Wellen Höhenliste (m) Foto-Daten im Quartermaß: 4028 x 2454 Pixel  
 Kamerapunkt: 495 133 5 932 229 46,3 Schichten/Wellen: 2026(21) \* 95  
 Zubehör: 495 133 5 932 267 114,4 Sonde Normal Geschwindigkeit: 49 \* V4 \* 0' Braunwelle: 20 mm Film  
 Foto-Bildung: 247

FP10.02 Ka FP10.02, Granzin, Kirche, von Rasenfläche



UTM (north) ETCSZP Zone 32 Ost Nord 2 Wellen Höhenliste (m) Foto-Daten im Quartermaß: 4028 x 2454 Pixel  
 Kamerapunkt: 495 133 5 932 219 46,4 Schichten/Wellen: 2026(21) \* 95  
 Zubehör: 495 133 5 932 267 87,3 Sonde Normal Geschwindigkeit: 49 \* V4 \* 0' Braunwelle: 20 mm Film  
 Foto-Bildung: 247

FP10.02 Ka(r) FP10.02, Granzin, Kirche, von Rasenfläche (fotorealistisch)



UTM (north) ETCSZP Zone 32 Ost Nord 2 Wellen Höhenliste (m) Foto-Daten im Quartermaß: 4028 x 2454 Pixel  
 Kamerapunkt: 495 133 5 932 219 46,4 Schichten/Wellen: 2026(21) \* 95  
 Zubehör: 495 133 5 932 267 87,3 Sonde Normal Geschwindigkeit: 49 \* V4 \* 0' Braunwelle: 20 mm Film  
 Foto-Bildung: 247

FP10.03 Ka FP10.03, Granzin, Kirche, von Lange Straße



UTM (north) ETCSZP Zone 32 Ost Nord 2 Wellen Höhenliste (m) Foto-Daten im Quartermaß: 4028 x 2454 Pixel  
 Kamerapunkt: 495 133 5 932 299 46,2 Schichten/Wellen: 2026(21) \* 95  
 Zubehör: 495 133 5 932 348 83,3 Sonde Normal Geschwindigkeit: 49 \* V4 \* 0' Braunwelle: 20 mm Film  
 Foto-Bildung: 247

FP10.03 Ka(r) FP10.03, Granzin, Kirche, von Lange Straße



UTM (north) ETCSZP Zone 32 Ost Nord 2 Wellen Höhenliste (m) Foto-Daten im Quartermaß: 4028 x 2454 Pixel  
 Kamerapunkt: 495 133 5 932 299 46,2 Schichten/Wellen: 2026(21) \* 95  
 Zubehör: 495 133 5 932 348 83,3 Sonde Normal Geschwindigkeit: 49 \* V4 \* 0' Braunwelle: 20 mm Film  
 Foto-Bildung: 247

WEA-Platzierung

|     | Ak          | Existierend | Ja      | Hersteller    | Typ   | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |               |            |               |            |               |
|-----|-------------|-------------|---------|---------------|-------|--------------|-------------------|-----------|--------------------|---------------|------------|---------------|------------|---------------|
|     |             |             |         |               |       |              |                   |           | FP10.01 Ka         | FP10.01 Ka(r) | FP10.02 Ka | FP10.02 Ka(r) | FP10.03 Ka | FP10.03 Ka(r) |
|     |             |             |         |               |       | [kW]         | [m]               | [m]       | [m]                | [m]           | [m]        | [m]           | [m]        | [m]           |
| B01 | Existierend | Ja          | ENERCON | E-82-2.000    | 2.000 | 82,0         | 78,3              | 6.824     | 6.824              | 6.872         | 6.872      | 6.880         | 6.880      |               |
| B02 | Existierend | Ja          | ENERCON | E-82-2.000    | 2.000 | 82,0         | 78,3              | 6.406     | 6.406              | 6.454         | 6.454      | 6.461         | 6.461      |               |
| B03 | Existierend | Ja          | ENERCON | E-82-2.000    | 2.000 | 82,0         | 78,3              | 6.379     | 6.379              | 6.428         | 6.428      | 6.437         | 6.437      |               |
| B04 | Existierend | Ja          | ENERCON | E-82-2.000    | 2.000 | 82,0         | 108,3             | 5.012     | 5.012              | 5.061         | 5.061      | 5.069         | 5.069      |               |
| B05 | Existierend | Ja          | ENERCON | E-82-2.000    | 2.000 | 82,0         | 108,3             | 4.700     | 4.700              | 4.749         | 4.749      | 4.757         | 4.757      |               |
| B06 | Existierend | Ja          | ENERCON | E-82-2.000    | 2.000 | 82,0         | 78,3              | 6.099     | 6.099              | 6.149         | 6.149      | 6.158         | 6.158      |               |
| B07 | Existierend | Ja          | ENERCON | E-82 E2-2.300 | 2.300 | 82,0         | 108,4             | 4.660     | 4.660              | 4.709         | 4.709      | 4.719         | 4.719      |               |
| B08 | Existierend | Ja          | ENERCON | E-82 E2-2.300 | 2.300 | 82,0         | 108,4             | 5.089     | 5.089              | 5.139         | 5.139      | 5.149         | 5.149      |               |
| B09 | Existierend | Ja          | ENERCON | E-82 E2-2.300 | 2.300 | 82,0         | 108,4             | 5.768     | 5.768              | 5.817         | 5.817      | 5.827         | 5.827      |               |
| B10 | Existierend | Ja          | ENERCON | E-82 E2-2.300 | 2.300 | 82,0         | 108,4             | 5.465     | 5.465              | 5.515         | 5.515      | 5.525         | 5.525      |               |
| B11 | Existierend | Ja          | ENERCON | E-82 E2-2.300 | 2.300 | 82,0         | 108,4             | 5.222     | 5.222              | 5.273         | 5.273      | 5.284         | 5.284      |               |
| B12 | Existierend | Ja          | ENERCON | E-82 E2-2.300 | 2.300 | 82,0         | 108,4             | 4.507     | 4.507              | 4.554         | 4.554      | 4.561         | 4.561      |               |
| B13 | Existierend | Ja          | ENERCON | E-82 E2-2.300 | 2.300 | 82,0         | 108,4             | 4.320     | 4.320              | 4.368         | 4.368      | 4.376         | 4.376      |               |
| B14 | Existierend | Ja          | ENERCON | E-70 E4-2.000 | 2.000 | 71,0         | 85,0              | 6.699     | 6.699              | 6.748         | 6.748      | 6.758         | 6.758      |               |
| B15 | Existierend | Ja          | ENERCON | E-70 E4-2.000 | 2.000 | 71,0         | 85,0              | 6.372     | 6.372              | 6.422         | 6.422      | 6.433         | 6.433      |               |
| B16 | Existierend | Ja          | ENERCON | E-70 E4-2.000 | 2.000 | 71,0         | 85,0              | 6.915     | 6.915              | 6.966         | 6.966      | 6.976         | 6.976      |               |
| B17 | Existierend | Ja          | ENERCON | E-70 E4-2.000 | 2.000 | 71,0         | 85,0              | 6.766     | 6.766              | 6.817         | 6.817      | 6.829         | 6.829      |               |
| B18 | Existierend | Ja          | ENERCON | E-70 E4-2.000 | 2.000 | 71,0         | 85,0              | 6.424     | 6.424              | 6.475         | 6.475      | 6.488         | 6.488      |               |
| B19 | Existierend | Ja          | ENERCON | E-70 E4-2.000 | 2.000 | 71,0         | 85,0              | 7.273     | 7.273              | 7.324         | 7.324      | 7.335         | 7.335      |               |

(Fortsetzung nächste Seite)...





### VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP10, Granzin, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      |                |                         | Abstand zur Kamera |         |         |         |         |         |         |        |        |
|---------|-------------|------|----------------|-------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|--------|
| Ak-     | Her-        | Typ  | Nenn-          | Rotor-                  | Naben-             | FP10.01 | FP10.01 | FP10.02 | FP10.02 | FP10.03 | FP10.03 |        |        |
| tu-     | steller     |      | leistung       | durch-                  | höhe               | Ka      | Ka(r)   | Ka      | Ka(r)   | Ka      | Ka(r)   |        |        |
| ell     |             |      | [kW]           | messer                  | [m]                | [m]     | [m]     | [m]     | [m]     | [m]     | [m]     |        |        |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0    | 73,8    | 5.651   | 5.651   | 5.610   | 5.610   | 5.610  | 5.610  |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600              | 116,8   | 140,6   | 4.269   | 4.269   | 4.229   | 4.229   | 4.231  | 4.231  |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0   | 161,0   | 2.026   | 2.026   | 1.995   | 1.995   | 1.966  | 1.966  |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0   | 161,0   | 1.637   | 1.637   | 1.602   | 1.602   | 1.574  | 1.574  |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000              | 160,0   | 165,0   | 2.225   | 2.225   | 2.196   | 2.196   | 2.167  | 2.167  |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0   | 169,0   | 2.094   | 2.094   | 2.108   | 2.108   | 2.091  | 2.091  |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0   | 169,0   | 1.631   | 1.631   | 1.651   | 1.651   | 1.637  | 1.637  |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0   | 169,0   | 1.839   | 1.839   | 1.846   | 1.846   | 1.826  | 1.826  |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0   | 169,0   | 1.471   | 1.471   | 1.477   | 1.477   | 1.456  | 1.456  |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0   | 169,0   | 1.730   | 1.730   | 1.727   | 1.727   | 1.703  | 1.703  |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600              | 150,0   | 169,0   | 1.874   | 1.874   | 1.860   | 1.860   | 1.833  | 1.833  |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0   | 169,0   | 2.213   | 2.213   | 2.190   | 2.190   | 2.162  | 2.162  |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0   | 169,0   | 2.597   | 2.597   | 2.572   | 2.572   | 2.543  | 2.543  |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0   | 169,0   | 1.984   | 1.984   | 2.008   | 2.008   | 1.996  | 1.996  |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500              | 70,5    | 64,7    | 9.494   | 9.494   | 9.532   | 9.532   | 9.529  | 9.529  |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0   | 169,0   | 1.315   | 1.315   | 1.338   | 1.338   | 1.326  | 1.326  |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 11.332  | 11.332  | 11.368  | 11.368  | 11.363 | 11.363 |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0   | 169,0   | 1.399   | 1.399   | 1.355   | 1.355   | 1.328  | 1.328  |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 11.576  | 11.576  | 11.611  | 11.611  | 11.606 | 11.606 |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 9.688   | 9.688   | 9.726   | 9.726   | 9.723  | 9.723  |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0   | 169,0   | 1.734   | 1.734   | 1.694   | 1.694   | 1.666  | 1.666  |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 9.949   | 9.949   | 9.987   | 9.987   | 9.984  | 9.984  |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 10.157  | 10.157  | 10.195  | 10.195  | 10.191 | 10.191 |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0   | 161,0   | 1.993   | 1.993   | 1.955   | 1.955   | 1.927  | 1.927  |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 10.363  | 10.363  | 10.401  | 10.401  | 10.397 | 10.397 |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0   | 161,0   | 1.205   | 1.205   | 1.179   | 1.179   | 1.150  | 1.150  |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 10.570  | 10.570  | 10.608  | 10.608  | 10.605 | 10.605 |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 10.777  | 10.777  | 10.816  | 10.816  | 10.812 | 10.812 |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0   | 161,0   | 2.380   | 2.380   | 2.344   | 2.344   | 2.316  | 2.316  |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0   | 161,0   | 1.646   | 1.646   | 1.623   | 1.623   | 1.595  | 1.595  |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 10.795  | 10.795  | 10.832  | 10.832  | 10.828 | 10.828 |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 10.591  | 10.591  | 10.628  | 10.628  | 10.624 | 10.624 |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000              | 162,0   | 169,0   | 1.150   | 1.150   | 1.152   | 1.152   | 1.131  | 1.131  |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500              | 70,5    | 64,7    | 9.300   | 9.300   | 9.338   | 9.338   | 9.336  | 9.336  |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700              | 149,0   | 125,4   | 11.318  | 11.318  | 11.354  | 11.354  | 11.350 | 11.350 |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 11.105  | 11.105  | 11.141  | 11.141  | 11.136 | 11.136 |
| WKA 21  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750              | 66,0    | 67,0    | 9.697   | 9.697   | 9.728   | 9.728   | 9.719  | 9.719  |
| WKA 22  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750              | 66,0    | 67,0    | 9.500   | 9.500   | 9.531   | 9.531   | 9.523  | 9.523  |
| WKA 23  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750              | 66,0    | 67,0    | 9.114   | 9.114   | 9.146   | 9.146   | 9.139  | 9.139  |
| WKA 24  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750              | 66,0    | 67,0    | 8.879   | 8.879   | 8.910   | 8.910   | 8.902  | 8.902  |
| WKA 25  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750              | 66,0    | 67,0    | 8.591   | 8.591   | 8.622   | 8.622   | 8.615  | 8.615  |
| WKA 26  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.435   | 9.435   | 9.472   | 9.472   | 9.468  | 9.468  |
| WKA 27  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.422   | 9.422   | 9.458   | 9.458   | 9.454  | 9.454  |
| WKA 28  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.146   | 9.146   | 9.183   | 9.183   | 9.180  | 9.180  |
| WKA 29  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.427   | 9.427   | 9.462   | 9.462   | 9.456  | 9.456  |
| WKA 3   | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 10.361  | 10.361  | 10.398  | 10.398  | 10.393 | 10.393 |
| WKA 30  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.522   | 9.522   | 9.556   | 9.556   | 9.550  | 9.550  |
| WKA 31  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 8.561   | 8.561   | 8.596   | 8.596   | 8.591  | 8.591  |
| WKA 32  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 8.828   | 8.828   | 8.863   | 8.863   | 8.857  | 8.857  |
| WKA 33  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.135   | 9.135   | 9.171   | 9.171   | 9.165  | 9.165  |
| WKA 34  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 8.399   | 8.399   | 8.433   | 8.433   | 8.427  | 8.427  |
| WKA 35  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 8.348   | 8.348   | 8.380   | 8.380   | 8.373  | 8.373  |
| WKA 36  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 8.666   | 8.666   | 8.700   | 8.700   | 8.693  | 8.693  |
| WKA 37  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 8.944   | 8.944   | 8.977   | 8.977   | 8.970  | 8.970  |
| WKA 38  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.387   | 9.387   | 9.420   | 9.420   | 9.413  | 9.413  |
| WKA 39  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.790   | 9.790   | 9.823   | 9.823   | 9.817  | 9.817  |
| WKA 4   | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 10.146  | 10.146  | 10.182  | 10.182  | 10.178 | 10.178 |
| WKA 40  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.946   | 9.946   | 9.977   | 9.977   | 9.970  | 9.970  |
| WKA 41  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.812   | 9.812   | 9.847   | 9.847   | 9.841  | 9.841  |
| WKA 42  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.720   | 9.720   | 9.756   | 9.756   | 9.751  | 9.751  |
| WKA 43  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 9.722   | 9.722   | 9.759   | 9.759   | 9.755  | 9.755  |
| WKA 44  | Existierend | Nein | ENERCON        | E-70 E4-2.000           | 2.000              | 71,0    | 85,0    | 10.096  | 10.096  | 10.132  | 10.132  | 10.126 | 10.126 |
| WKA 46  | Existierend | Ja   | NORDEX         | N131/3300 DE-3.300      | 3.300              | 131,0   | 164,0   | 9.169   | 9.169   | 9.202   | 9.202   | 9.196  | 9.196  |
| WKA 47  | Existierend | Ja   | NORDEX         | N131/3300 DE-3.300      | 3.300              | 131,0   | 164,0   | 9.641   | 9.641   | 9.674   | 9.674   | 9.667  | 9.667  |
| WKA 48  | Existierend | Ja   | NORDEX         | N131/3300 DE-3.300      | 3.300              | 131,0   | 164,0   | 9.973   | 9.973   | 10.005  | 10.005  | 9.998  | 9.998  |
| WKA 49  | Existierend | Ja   | ENERCON        | E-70 E4 2,3 MW-2.300    | 2.300              | 71,0    | 113,5   | 10.239  | 10.239  | 10.276  | 10.276  | 10.272 | 10.272 |
| WKA 5   | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0    | 60,0    | 9.932   | 9.932   | 9.968   | 9.968   | 9.963  | 9.963  |
| WKA 50  | Existierend | Ja   | ENERCON        | E-70 E4 2,3 MW-2.300    | 2.300              | 71,0    | 113,5   | 10.456  | 10.456  | 10.494  | 10.494  | 10.490 | 10.490 |
| WKA 51  | Existierend | Ja   | ENERCON        | E-70 E4 2,3 MW-2.300    | 2.300              | 71,0    | 113,5   | 10.675  | 10.675  | 10.712  | 10.712  | 10.708 | 10.708 |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP10, Granzin, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WKA    | Existierend | Ja   | Hersteller | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |               |            |               |            |               |     |
|--------|-------------|------|------------|----------------------|--------------|-------------------|-----------|--------------------|---------------|------------|---------------|------------|---------------|-----|
|        |             |      |            |                      |              |                   |           | FP10.01 Ka         | FP10.01 Ka(r) | FP10.02 Ka | FP10.02 Ka(r) | FP10.03 Ka | FP10.03 Ka(r) |     |
|        |             |      | WEA-Typ    |                      | [kW]         | [m]               | [m]       | [m]                | [m]           | [m]        | [m]           | [m]        | [m]           | [m] |
| WKA 52 | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 10.936             | 10.936        | 10.973     | 10.973        | 10.969     | 10.969        |     |
| WKA 53 | Existierend | Ja   | eno        | eno 82 2.05-2.050    | 2.050        | 82,4              | 108,0     | 11.473             | 11.473        | 11.507     | 11.507        | 11.502     | 11.502        |     |
| WKA 54 | Existierend | Nein | NEG MICON  | NM72C/1500-1.500/400 | 1.500        | 72,0              | 80,0      | 10.227             | 10.227        | 10.260     | 10.260        | 10.252     | 10.252        |     |
| WKA 55 | Existierend | Ja   | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 10.321             | 10.321        | 10.355     | 10.355        | 10.348     | 10.348        |     |
| WKA 56 | Existierend | Ja   | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 10.580             | 10.580        | 10.614     | 10.614        | 10.608     | 10.608        |     |
| WKA 57 | Existierend | Ja   | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 10.836             | 10.836        | 10.870     | 10.870        | 10.864     | 10.864        |     |
| WKA 58 | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.892              | 9.892         | 9.931      | 9.931         | 9.928      | 9.928         |     |
| WKA 59 | Existierend | Nein | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 113,5     | 10.182             | 10.182        | 10.221     | 10.221        | 10.218     | 10.218        |     |
| WKA 6  | Existierend | Nein | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 10.073             | 10.073        | 10.107     | 10.107        | 10.101     | 10.101        |     |
| WKA 60 | Existierend | Nein | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.916              | 8.916         | 8.952      | 8.952         | 8.948      | 8.948         |     |
| WKA 61 | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.708              | 9.708         | 9.746      | 9.746         | 9.744      | 9.744         |     |
| WKA 62 | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.494              | 9.494         | 9.533      | 9.533         | 9.530      | 9.530         |     |
| WKA 7  | Existierend | Nein | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 10.297             | 10.297        | 10.332     | 10.332        | 10.326     | 10.326        |     |
| WKA 8  | Existierend | Nein | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 10.533             | 10.533        | 10.568     | 10.568        | 10.563     | 10.563        |     |
| WKA 9  | Existierend | Nein | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 10.745             | 10.745        | 10.780     | 10.780        | 10.775     | 10.775        |     |





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 02.09.2021 11:31:59  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 695.083 Nord: 5.932.191  
 Windrichtung: 0° Richtung des Fotos: 24°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP10.01 Ka FP10.01, Granzin, Kirche, von Rasenfläche

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 02.09.2021 11:31:59  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 695.083 Nord: 5.932.191  
 Windrichtung: 0° Richtung des Fotos: 24°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP10.01 Ka(r) FP10.01, Granzin, Kirche, von Rasenfläche (fotorealistisch)

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
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 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

Empfohlener Betrachtungsabstand: 15 cm

Fotoaufnahme: 02.09.2021 11:32:58  
Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 695.131 Nord: 5.932.211  
Windrichtung: 0° Richtung des Fotos: 22°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP10.02 Ka FP10.02, Granzin, Kirche, von Rasenfläche

Erzeugt von:  
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Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 02.09.2021 11:32:58  
Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 695.131 Nord: 5.932.211  
Windrichtung: 0° Richtung des Fotos: 22°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP10.02 Ka(r) FP10.02, Granzin, Kirche, von Rasenfläche (fotorealistisch)

Erzeugt von:  
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Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 02.09.2021 11:38:59  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 695.138 Nord: 5.932.239  
 Windrichtung: 0° Richtung des Fotos: 17°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP10.03 Ka FP10.03, Granzin, Kirche, von Lange Straße

Erzeugt von:  
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 Straße am Zeltplatz 7  
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 Raimund Wörl / raimund.woerl@eno-site.com



Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

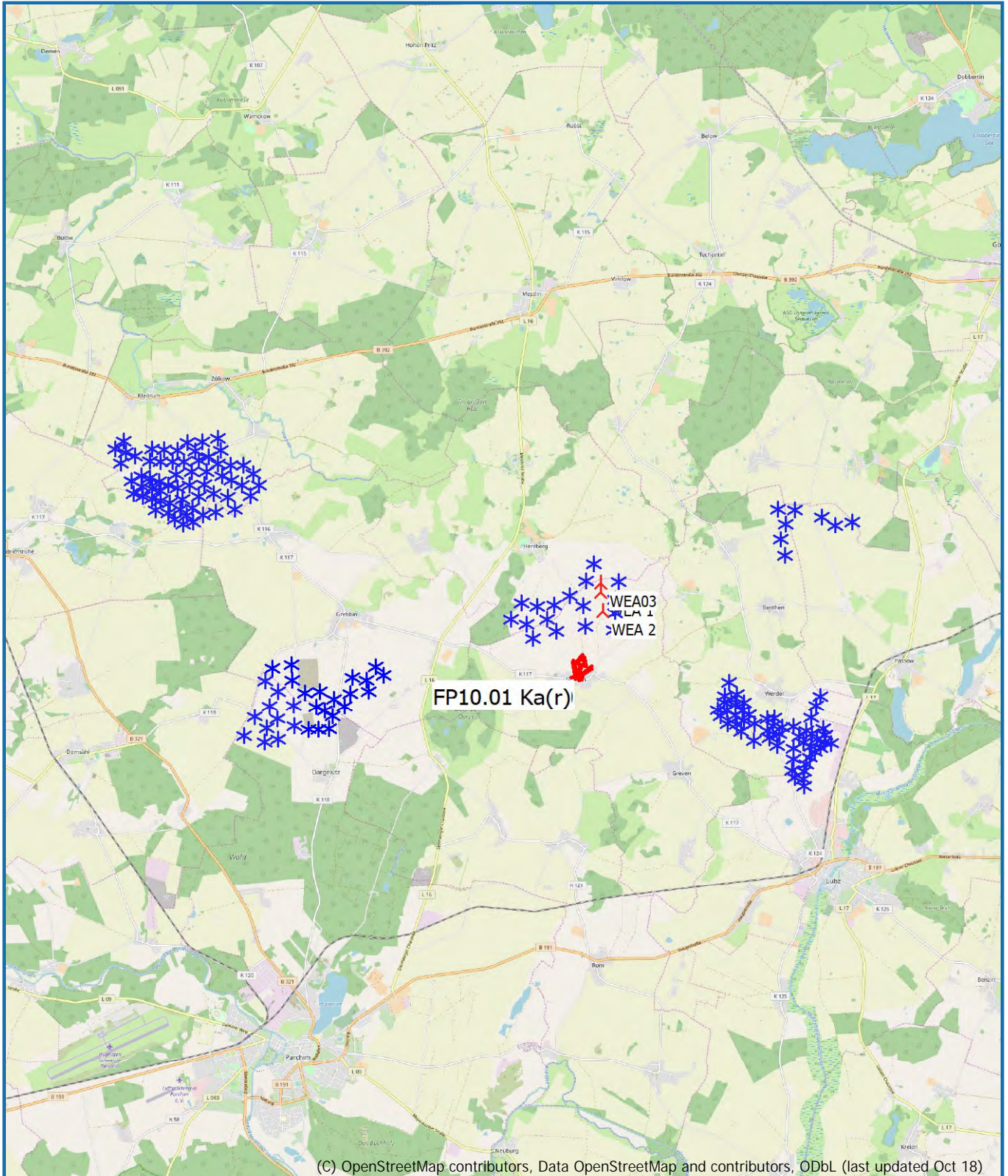
Fotoaufnahme: 02.09.2021 11:38:59  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 695.138 Nord: 5.932.239  
 Windrichtung: 0° Richtung des Fotos: 17°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP10.03 Ka(r) FP10.03, Granzin, Kirche, von Lange Straße

Erzeugt von:  
 enosite GmbH  
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## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP10, Granzin, Kirche; 2022-08-24



0 2,5 5 7,5 10km

Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

Neue WEA \* Existierende WEA Kamera

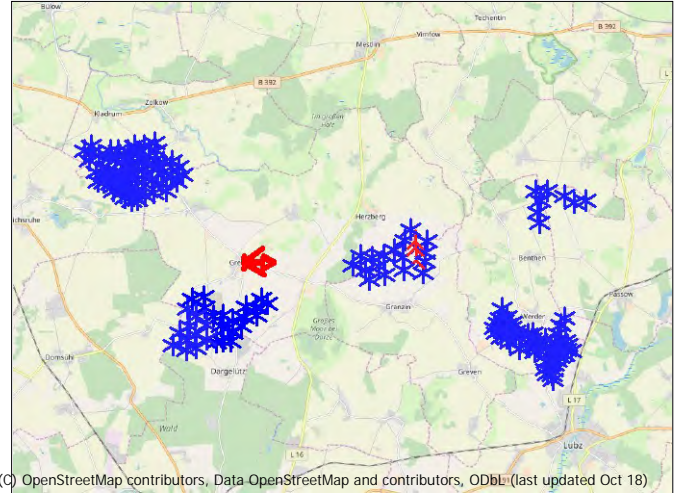


Projekt: 0108-Granzin Beschreibung: Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender: enosite GmbH  
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 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com  
 Berechnet: 25.08.2022 11:14/3.5.584

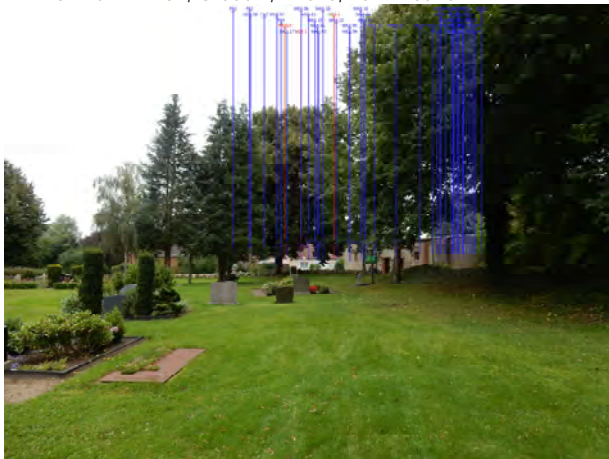
## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP11, Grebbin, Kirche; 2022-08-24



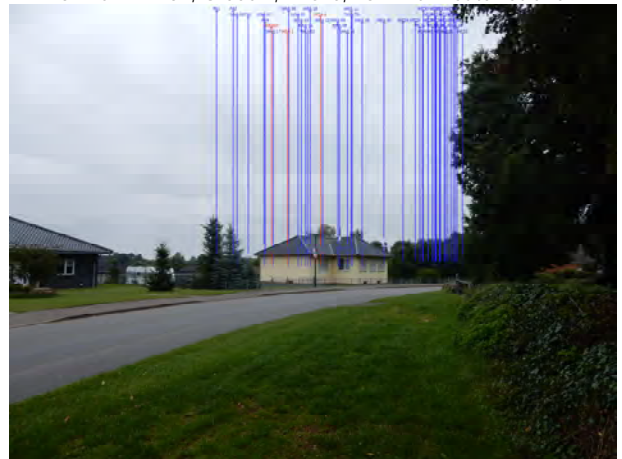
Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP11.01 Ka FP11.01, Grebbin, Kirche, von Friedhof



|                             |         |           |      |              |                                  |   |
|-----------------------------|---------|-----------|------|--------------|----------------------------------|---|
| UTM (north)-ETRS89 Zone: 32 | Ost     | Nord      | Z    | Wolken       | :Schwer bedeckt mit Wolken (6/8) | Foto-Datei im Querformat: 4608 x 3456 Pixel                         |
| Kamerapunkt                 | 689.949 | 5.933.396 | 69.5 | Sichtbarkeit | :Normal                          | DSCN348.JPG   |
| Zielpunkt                   | 690.093 | 5.933.413 | 78.6 | Sonne        | :Normal                          | Gesichtsfeld: 69.4°x54.9° Brennweite: 25 mm Film: 35x26 mm          |
| Foto-Richtung               | 86°     |           |      | Windricht.   | :0°                              | Fotobeschreibung: FP11.01 Ka FP11.01, Grebbin, Kirche, von Friedhof |

FP11.02 Ka FP11.02, Grebbin, Kirche, von Fritz-Reuter-Straße



|                             |         |           |      |              |                                  |  |
|-----------------------------|---------|-----------|------|--------------|----------------------------------|--|
| UTM (north)-ETRS89 Zone: 32 | Ost     | Nord      | Z    | Wolken       | :Schwer bedeckt mit Wolken (6/8) | Foto-Datei im Querformat: 4608 x 3456 Pixel                                    |
| Kamerapunkt                 | 689.951 | 5.933.472 | 68.4 | Sichtbarkeit | :Normal                          | DSCN358.JPG  |
| Zielpunkt                   | 690.182 | 5.933.488 | 88.0 | Sonne        | :Normal                          | Gesichtsfeld: 69.4°x54.9° Brennweite: 25 mm Film: 35x26 mm                     |
| Foto-Richtung               | 89°     |           |      | Windricht.   | :0°                              | Fotobeschreibung: FP11.02 Ka FP11.02, Grebbin, Kirche, von Fritz-Reuter-Straße |

FP11.03 Ka FP11.03, Grebbin, Kirche, von Friedhof



|                             |         |           |      |              |                                  |   |
|-----------------------------|---------|-----------|------|--------------|----------------------------------|---|
| UTM (north)-ETRS89 Zone: 32 | Ost     | Nord      | Z    | Wolken       | :Schwer bedeckt mit Wolken (6/8) | Foto-Datei im Querformat: 4608 x 3456 Pixel                         |
| Kamerapunkt                 | 689.909 | 5.933.418 | 69.0 | Sichtbarkeit | :Normal                          | DSCN370.JPG   |
| Zielpunkt                   | 690.117 | 5.933.442 | 82.4 | Sonne        | :Normal                          | Gesichtsfeld: 69.4°x54.9° Brennweite: 25 mm Film: 35x26 mm          |
| Foto-Richtung               | 86°     |           |      | Windricht.   | :0°                              | Fotobeschreibung: FP11.03 Ka FP11.03, Grebbin, Kirche, von Friedhof |



### VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP11, Grebbin, Kirche; 2022-08-24

#### WEA-Platzierung

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |            |
|------|-------------|------|------------|----------------------|--------------|-------------------|-----------|--------------------|------------|------------|
|      | Aktuell     |      |            |                      |              |                   |           | FP11.01 Ka         | FP11.02 Ka | FP11.03 Ka |
|      |             |      |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]        |
| B01  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 2.102              | 2.134      | 2.084      |
| B02  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 1.721              | 1.760      | 1.707      |
| B03  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 1.944              | 1.992      | 1.936      |
| B04  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 1.394              | 1.472      | 1.420      |
| B05  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 1.492              | 1.570      | 1.526      |
| B06  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 2.014              | 2.073      | 2.015      |
| B07  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 1.754              | 1.832      | 1.786      |
| B08  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 1.755              | 1.832      | 1.779      |
| B09  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 1.834              | 1.900      | 1.842      |
| B10  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 1.917              | 1.989      | 1.933      |
| B11  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 2.043              | 2.119      | 2.065      |
| B12  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 1.293              | 1.369      | 1.332      |
| B13  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 1.541              | 1.615      | 1.581      |
| B14  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 2.347              | 2.394      | 2.338      |
| B15  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 2.381              | 2.439      | 2.381      |
| B16  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 2.728              | 2.776      | 2.720      |
| B17  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 2.845              | 2.900      | 2.842      |
| B18  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 2.781              | 2.843      | 2.784      |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 3.131              | 3.177      | 3.122      |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 3.158              | 3.212      | 3.154      |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 3.221              | 3.280      | 3.222      |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 3.598              | 3.646      | 3.590      |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 3.443              | 3.498      | 3.441      |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 2.394              | 2.430      | 2.378      |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 2.733              | 2.800      | 2.742      |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 2.654              | 2.724      | 2.666      |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 2.593              | 2.666      | 2.609      |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 2.293              | 2.366      | 2.310      |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 2.208              | 2.279      | 2.221      |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 2.198              | 2.265      | 2.207      |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 9.947              | 9.944      | 9.980      |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 10.037             | 10.036     | 10.070     |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 9.860              | 9.862      | 9.894      |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 9.890              | 9.895      | 9.926      |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 10.306             | 10.303     | 10.339     |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 10.871             | 10.870     | 10.905     |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 11.129             | 11.130     | 11.163     |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 11.507             | 11.508     | 11.541     |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 9.857              | 9.891      | 9.901      |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.070             | 10.104     | 10.114     |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.527             | 10.565     | 10.572     |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 8.976              | 9.010      | 9.020      |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.567             | 10.606     | 10.611     |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.752             | 10.786     | 10.796     |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.608             | 10.641     | 10.651     |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 9.855              | 9.891      | 9.899      |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.054             | 10.089     | 10.098     |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.300             | 10.333     | 10.344     |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.493             | 10.527     | 10.537     |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.623             | 10.659     | 10.667     |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.453             | 10.490     | 10.497     |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 9.061              | 9.097      | 9.105      |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 9.266              | 9.299      | 9.309      |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 9.447              | 9.482      | 9.491      |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 10.652             | 10.683     | 10.695     |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 10.701             | 10.730     | 10.744     |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 11.081             | 11.116     | 11.125     |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 10.887             | 10.922     | 10.931     |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 60,0      | 9.767              | 9.802      | 9.811      |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 9.195              | 9.230      | 9.239      |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 9.844              | 9.877      | 9.887      |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 8.765              | 8.799      | 8.809      |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP11, Grebbin, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      | Hersteller     | Typ                     | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |            |
|---------|-------------|------|----------------|-------------------------|--------------|-------------------|-----------|--------------------|------------|------------|
| Aktuell |             |      |                |                         |              |                   |           | FP11.01 Ka         | FP11.02 Ka | FP11.03 Ka |
|         |             |      |                |                         | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]        |
| WE25    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 8.893              | 8.923      | 8.936      |
| WE26    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 8.858              | 8.894      | 8.902      |
| WE27    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 8.924              | 8.956      | 8.968      |
| WE28    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 8.655              | 8.687      | 8.699      |
| WE29    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 8.679              | 8.707      | 8.721      |
| WE30    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.101              | 9.132      | 9.144      |
| WE31    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 10.856             | 10.893     | 10.900     |
| WE32    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 10.816             | 10.851     | 10.860     |
| WE33    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 10.066             | 10.102     | 10.110     |
| WE34    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.199              | 9.235      | 9.243      |
| WE35    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 8.650              | 8.680      | 8.693      |
| WE36    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 8.661              | 8.695      | 8.704      |
| WE37    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 9.684              | 9.717      | 9.727      |
| WE38    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 8.557              | 8.591      | 8.601      |
| WE39    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 10.765             | 10.792     | 10.807     |
| WE40    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 9.100              | 9.133      | 9.144      |
| WE41    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 10.940             | 10.981     | 10.985     |
| WE42    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 10.966             | 10.998     | 11.009     |
| WE43    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 10.829             | 10.868     | 10.873     |
| WE44    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 10.870             | 10.910     | 10.915     |
| WE45    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 10.679             | 10.719     | 10.724     |
| WE46    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 8.803              | 8.834      | 8.846      |
| WE47    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 10.807             | 10.845     | 10.852     |
| WE48    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 11.232             | 11.266     | 11.276     |
| WE49    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 11.017             | 11.052     | 11.061     |
| WE50    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 11.060             | 11.094     | 11.104     |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 10.924             | 10.960     | 10.968     |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600        | 116,8             | 140,6     | 9.539              | 9.576      | 9.583      |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 5.694              | 5.702      | 5.731      |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 5.709              | 5.723      | 5.748      |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000        | 160,0             | 165,0     | 5.714              | 5.720      | 5.750      |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 3.874              | 3.883      | 3.911      |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.000              | 4.019      | 4.040      |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.237              | 4.248      | 4.275      |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.451              | 4.468      | 4.491      |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.619              | 4.630      | 4.657      |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600        | 150,0             | 169,0     | 4.979              | 4.988      | 5.016      |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.378              | 5.382      | 5.414      |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.614              | 5.613      | 5.647      |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 3.625              | 3.642      | 3.664      |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 4.314              | 4.262      | 4.268      |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.161              | 4.186      | 4.203      |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 6.242              | 6.185      | 6.197      |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.956              | 5.976      | 5.997      |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 6.478              | 6.421      | 6.432      |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 4.518              | 4.465      | 4.473      |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.978              | 5.992      | 6.016      |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 4.783              | 4.729      | 4.737      |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 4.982              | 4.930      | 4.937      |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 5.995              | 6.006      | 6.033      |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 5.181              | 5.130      | 5.136      |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 5.308              | 5.327      | 5.349      |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 5.383              | 5.332      | 5.337      |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 5.584              | 5.534      | 5.538      |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.110              | 6.116      | 6.146      |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 5.266              | 5.278      | 5.304      |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 5.662              | 5.607      | 5.617      |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 5.465              | 5.410      | 5.419      |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000        | 162,0             | 169,0     | 4.665              | 4.686      | 4.706      |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 4.110              | 4.059      | 4.065      |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700        | 149,0             | 125,4     | 6.189              | 6.134      | 6.143      |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 6.023              | 5.966      | 5.978      |

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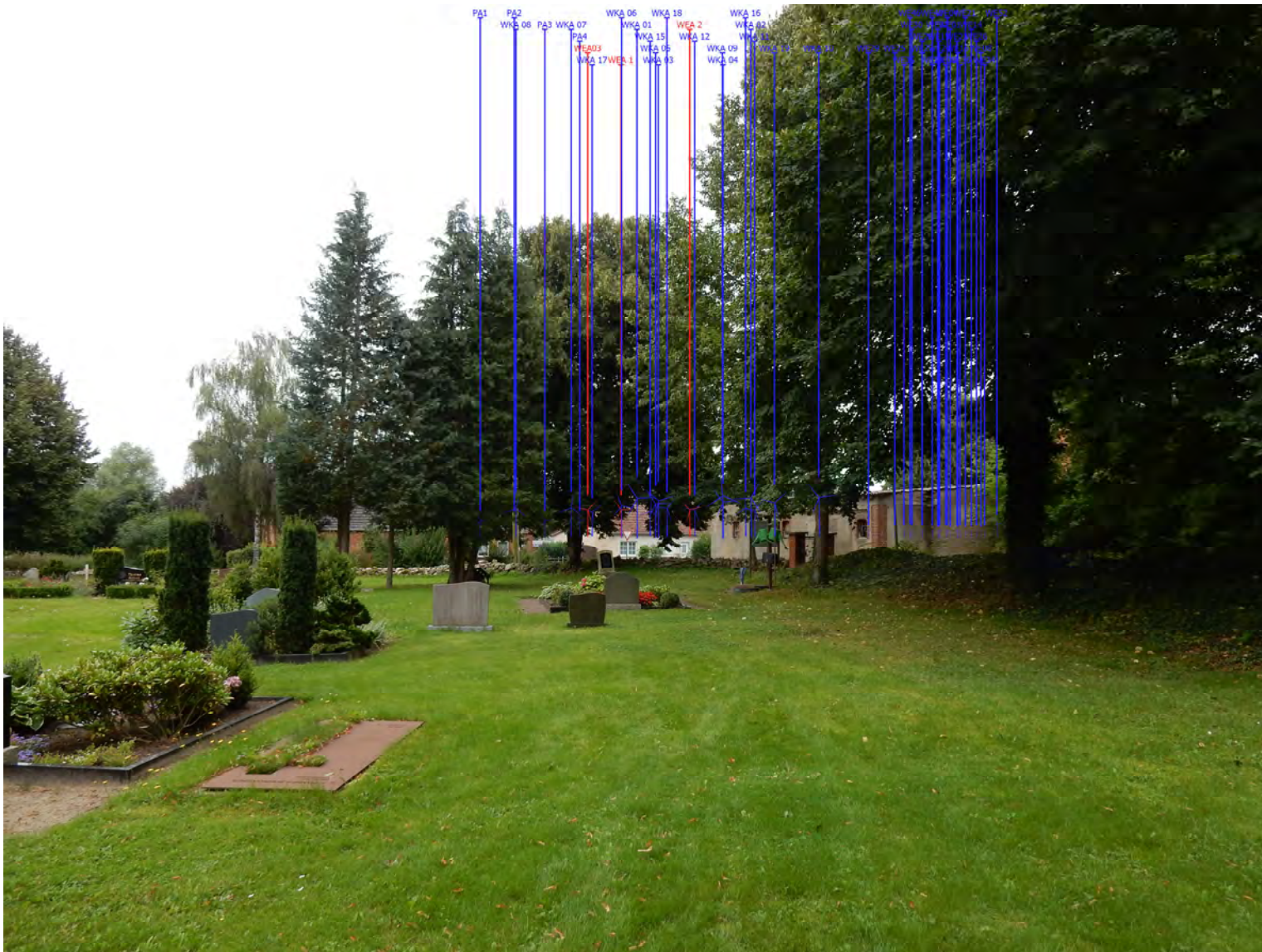


## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP11, Grebbin, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      |              |                      | Abstand zur Kamera |            |            |            |       |       |
|---------|-------------|------|--------------|----------------------|--------------------|------------|------------|------------|-------|-------|
| Aktuell | Hersteller  | Typ  | Nennleistung | Rotor-durchmesser    | Nabenhöhe          | FP11.01 Ka | FP11.02 Ka | FP11.03 Ka |       |       |
|         |             |      | [kW]         | [m]                  | [m]                | [m]        | [m]        | [m]        | [m]   | [m]   |
| WKA 21  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750              | 66,0       | 67,0       | 4.980      | 4.910 | 4.938 |
| WKA 22  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750              | 66,0       | 67,0       | 4.727      | 4.657 | 4.684 |
| WKA 23  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750              | 66,0       | 67,0       | 4.308      | 4.238 | 4.265 |
| WKA 24  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750              | 66,0       | 67,0       | 4.144      | 4.073 | 4.102 |
| WKA 25  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750              | 66,0       | 67,0       | 3.863      | 3.791 | 3.821 |
| WKA 26  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 4.292      | 4.236 | 4.246 |
| WKA 27  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 4.338      | 4.279 | 4.293 |
| WKA 28  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 3.998      | 3.942 | 3.952 |
| WKA 29  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 4.411      | 4.349 | 4.366 |
| WKA 3   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0       | 60,0       | 5.243      | 5.187 | 5.197 |
| WKA 30  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 4.576      | 4.511 | 4.532 |
| WKA 31  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 3.530      | 3.467 | 3.485 |
| WKA 32  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 3.831      | 3.767 | 3.787 |
| WKA 33  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 4.107      | 4.045 | 4.062 |
| WKA 34  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 3.514      | 3.445 | 3.471 |
| WKA 35  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 3.581      | 3.510 | 3.540 |
| WKA 36  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 3.805      | 3.736 | 3.762 |
| WKA 37  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 4.054      | 3.987 | 4.010 |
| WKA 38  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 4.532      | 4.465 | 4.489 |
| WKA 39  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 4.869      | 4.804 | 4.825 |
| WKA 4   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0       | 60,0       | 5.035      | 4.979 | 4.990 |
| WKA 40  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 5.134      | 5.066 | 5.091 |
| WKA 41  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 4.813      | 4.751 | 4.769 |
| WKA 42  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 4.659      | 4.599 | 4.614 |
| WKA 43  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 4.590      | 4.534 | 4.544 |
| WKA 44  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 5.041      | 4.981 | 4.995 |
| WKA 46  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300              | 131,0      | 164,0      | 4.263      | 4.196 | 4.219 |
| WKA 47  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300              | 131,0      | 164,0      | 4.779      | 4.712 | 4.736 |
| WKA 48  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300              | 131,0      | 164,0      | 5.084      | 5.018 | 5.040 |
| WKA 49  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0       | 113,5      | 5.094      | 5.039 | 5.048 |
| WKA 5   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0       | 60,0       | 4.829      | 4.771 | 4.783 |
| WKA 50  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0       | 113,5      | 5.302      | 5.249 | 5.257 |
| WKA 51  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0       | 113,5      | 5.513      | 5.460 | 5.467 |
| WKA 52  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0       | 113,5      | 5.774      | 5.721 | 5.728 |
| WKA 53  | Existierend | Ja   | eno          | eno 82 2.05-2.050    | 2.050              | 82,4       | 108,0      | 6.416      | 6.357 | 6.370 |
| WKA 54  | Existierend | Nein | NEG MICON    | NM72C/1500-1.500/400 | 1.500              | 72,0       | 80,0       | 5.350      | 5.284 | 5.306 |
| WKA 55  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200              | 92,8       | 103,0      | 5.373      | 5.309 | 5.328 |
| WKA 56  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200              | 92,8       | 103,0      | 5.592      | 5.530 | 5.547 |
| WKA 57  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200              | 92,8       | 103,0      | 5.818      | 5.758 | 5.773 |
| WKA 58  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0       | 113,5      | 4.694      | 4.644 | 4.649 |
| WKA 59  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 113,5      | 4.977      | 4.928 | 4.932 |
| WKA 6   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0       | 60,0       | 5.096      | 5.033 | 5.052 |
| WKA 60  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000              | 71,0       | 85,0       | 3.809      | 3.751 | 3.764 |
| WKA 61  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0       | 113,5      | 4.500      | 4.451 | 4.455 |
| WKA 62  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300              | 71,0       | 113,5      | 4.285      | 4.236 | 4.240 |
| WKA 7   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0       | 60,0       | 5.285      | 5.224 | 5.240 |
| WKA 8   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0       | 60,0       | 5.488      | 5.429 | 5.443 |
| WKA 9   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600                | 46,0       | 60,0       | 5.678      | 5.619 | 5.633 |



Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 02.09.2021 14:15:44  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 689.949 Nord: 5.933.396  
 Windrichtung: 0° Richtung des Fotos: 86°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP11.01 Ka FP11.01, Grebbin, Kirche, von Friedhof

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com









Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

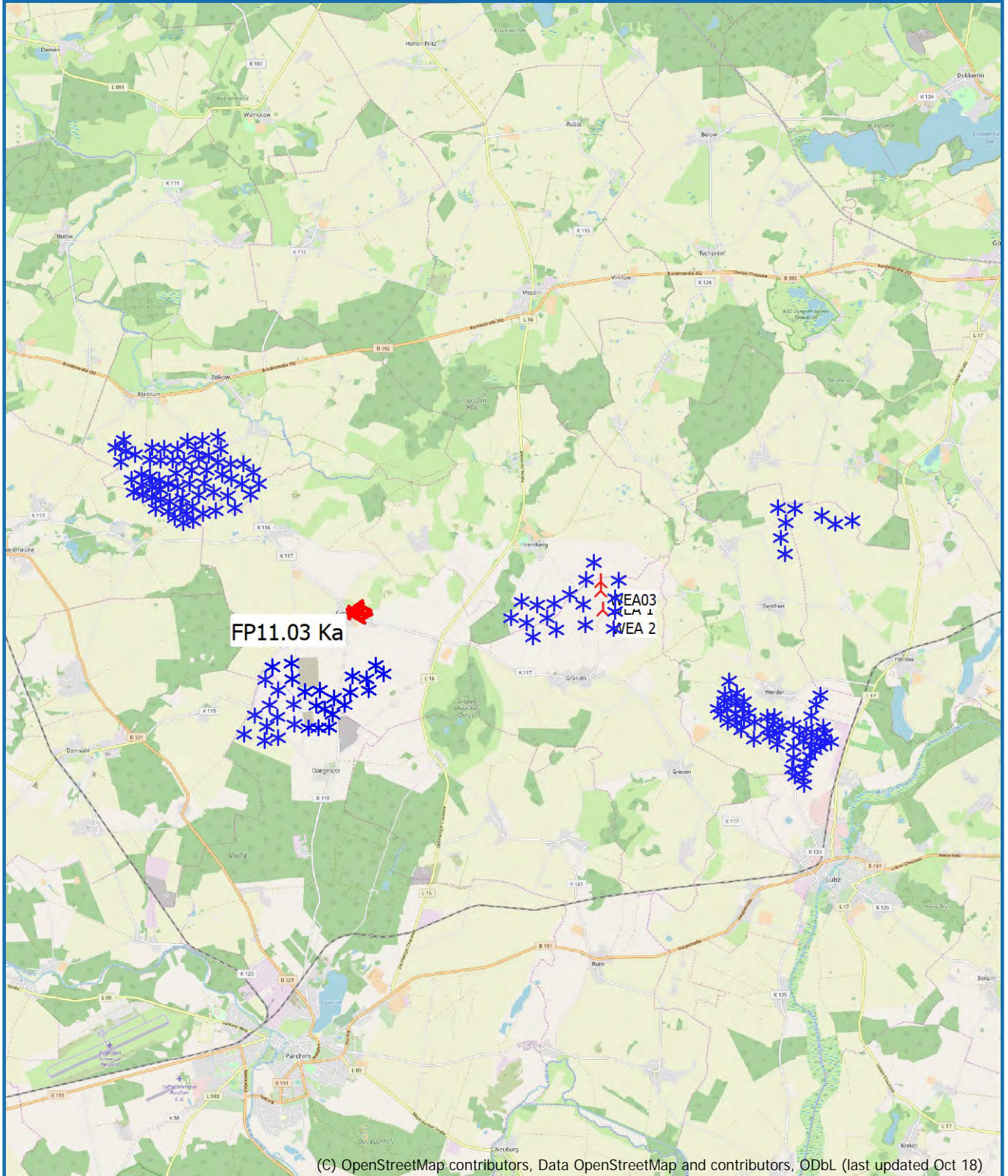
Fotoaufnahme: 02.09.2021 14:22:06  
Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 689.909 Nord: 5.933.418  
Windrichtung: 0° Richtung des Fotos: 86°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP11.03 Ka FP11.03, Grebbin, Kirche, von Friedhof

Erzeugt von:  
enosite GmbH  
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+49(0)38296 747 400  
Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP11, Grebbin, Kirche; 2022-08-24



0 2,5 5 7,5 10km

Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

Neue WEA \* Existierende WEA Kamera

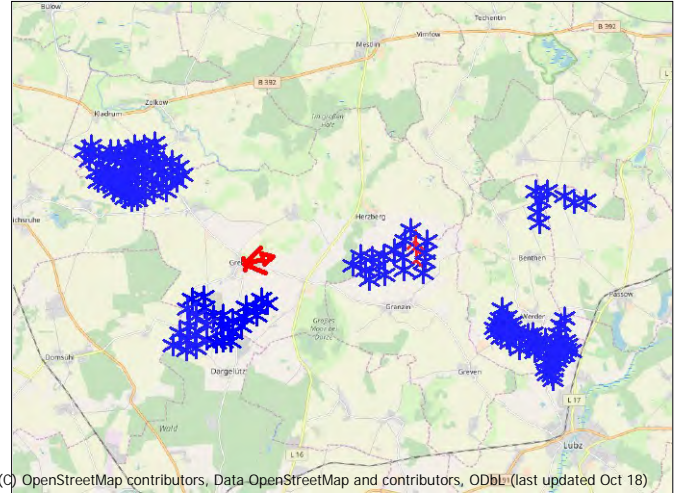


Projekt: 0108-Granzin Beschreibung: Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender: enosite GmbH  
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 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com  
 Berechnet: 25.08.2022 11:14/3.5.584

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP12, Grebbin, Pfarrhaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

Maßstab 1:250.000  
 ▲ Neue WEA      ★ Existierende WEA      📷 Kamera

FP12.01 Ka FP12.01, Grebbin, Pfarrhaus, von Schulstraße



|                             |         |           |      |              |                                  |  |
|-----------------------------|---------|-----------|------|--------------|----------------------------------|--|
| UTM (north)-ETRS89 Zone: 32 | Ost     | Nord      | Z    | Wolken       | :Schwer bedeckt mit Wolken (6/8) | Foto-Datei im Querformat: 4608 x 3456 Pixel                                |
| Kamerapunkt                 | 689.953 | 5.933.380 | 70,1 | Sichtbarkeit | :Normal                          | DSCN6374.JPG   |
| Zielpunkt                   | 690.086 | 5.933.413 | 80,3 | Sonne        | :Normal                          | Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm                 |
| Foto-Richtung               | 78°     |           |      | Windricht.   | :0°                              | Fotobeschreibung.: FP12.01 Ka FP12.01, Grebbin, Pfarrhaus, von Schulstraße |



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP12, Grebbin, Pfarrhaus; 2022-08-24

### WEA-Platzierung

|      |             | WEA-Typ |            | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera FP12.01 Ka |     |
|------|-------------|---------|------------|----------------------|-------------------|----------------------|---------------|-------------------------------|-----|
|      | Existierend | Aktuell | Hersteller |                      |                   |                      |               | [m]                           | [m] |
| B01  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 2.096                         |     |
| B02  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 1.713                         |     |
| B03  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 1.934                         |     |
| B04  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 108,3         | 1.378                         |     |
| B05  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 108,3         | 1.476                         |     |
| B06  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 2.002                         |     |
| B07  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 1.737                         |     |
| B08  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 1.739                         |     |
| B09  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 1.820                         |     |
| B10  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 1.901                         |     |
| B11  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 2.027                         |     |
| B12  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 1.277                         |     |
| B13  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 1.525                         |     |
| B14  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.338                         |     |
| B15  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.369                         |     |
| B16  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.718                         |     |
| B17  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.833                         |     |
| B18  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.768                         |     |
| B19  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 3.121                         |     |
| B20  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 3.147                         |     |
| B21  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 3.209                         |     |
| B22  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 3.588                         |     |
| B23  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 3.431                         |     |
| B24  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.387                         |     |
| B25  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 2.719                         |     |
| B26  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 2.639                         |     |
| B27  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 2.578                         |     |
| B28  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 2.278                         |     |
| B29  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 2.193                         |     |
| B30  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 2.184                         |     |
| PA1  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 9.948                         |     |
| PA2  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 10.037                        |     |
| PA3  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 9.860                         |     |
| PA4  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 9.889                         |     |
| PA5  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 10.307                        |     |
| PA6  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 10.871                        |     |
| PA7  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.129                        |     |
| PA8  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.507                        |     |
| WE01 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 9.850                         |     |
| WE02 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.063                        |     |
| WE03 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.519                        |     |
| WE04 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.969                         |     |
| WE05 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.558                        |     |
| WE06 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.745                        |     |
| WE07 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.600                        |     |
| WE08 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 9.848                         |     |
| WE09 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.047                        |     |
| WE10 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.293                        |     |
| WE11 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.485                        |     |
| WE12 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.616                        |     |
| WE13 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.445                        |     |
| WE14 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 9.054                         |     |
| WE15 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 9.259                         |     |
| WE16 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 9.440                         |     |
| WE17 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 10.645                        |     |
| WE18 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 10.694                        |     |
| WE19 | Existierend | Nein    | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 11.074                        |     |
| WE20 | Existierend | Nein    | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 10.880                        |     |
| WE21 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 9.759                         |     |
| WE22 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 9.188                         |     |
| WE23 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 9.837                         |     |
| WE24 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 8.758                         |     |
| WE25 | Existierend | Nein    | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 8.887                         |     |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP12, Grebbin, Pfarrhaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      |                   |                         |               |            |       | Abstand zur Kamera |  |
|---------|-------------|------|-------------------|-------------------------|---------------|------------|-------|--------------------|--|
| Aktuell | Hersteller  | Typ  | Nennleistung [kW] | Rotordurchmesser [m]    | Nabenhöhe [m] | FP12.01 Ka |       |                    |  |
|         |             |      |                   |                         |               | [m]        |       | [m]                |  |
| WE26    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 8.851              |  |
| WE27    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 8.918              |  |
| WE28    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 8.648              |  |
| WE29    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 8.673              |  |
| WE30    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 9.094              |  |
| WE31    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 10.848             |  |
| WE32    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 10.808             |  |
| WE33    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 10.058             |  |
| WE34    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 9.191              |  |
| WE35    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 8.643              |  |
| WE36    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 8.653              |  |
| WE37    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 9.677              |  |
| WE38    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 8.550              |  |
| WE39    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 10.759             |  |
| WE40    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 9.093              |  |
| WE41    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 10.931             |  |
| WE42    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 10.959             |  |
| WE43    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 10.820             |  |
| WE44    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 10.862             |  |
| WE45    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 10.670             |  |
| WE46    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 8.796              |  |
| WE47    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 10.799             |  |
| WE48    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 11.225             |  |
| WE49    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 11.009             |  |
| WE50    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 11.053             |  |
| WE51    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 10.916             |  |
| WE52    | Existierend | Ja   | NORDEX            | N117/3600-3.600         | 3.600         | 116,8      | 140,6 | 9.531              |  |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 5.692              |  |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 5.706              |  |
| WEA03   | Neu         | Ja   | eno               | eno160-6.0MW_rev1-6.000 | 6.000         | 160,0      | 165,0 | 5.713              |  |
| WKA 01  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 3.871              |  |
| WKA 02  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 3.996              |  |
| WKA 03  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 4.234              |  |
| WKA 04  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 4.448              |  |
| WKA 05  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 4.616              |  |
| WKA 06  | Existierend | Ja   | VESTAS            | V150-5.6-5.600          | 5.600         | 150,0      | 169,0 | 4.978              |  |
| WKA 07  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 5.377              |  |
| WKA 08  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 5.614              |  |
| WKA 09  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 3.621              |  |
| WKA 10  | Existierend | Nein | ENRONWIND         | EW 1.5s-1.500           | 1.500         | 70,5       | 64,7  | 4.325              |  |
| WKA 10  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 4.156              |  |
| WKA 10  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 6.255              |  |
| WKA 11  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 5.952              |  |
| WKA 11  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 6.490              |  |
| WKA 12  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 4.530              |  |
| WKA 12  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 5.974              |  |
| WKA 13  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 4.794              |  |
| WKA 14  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 4.994              |  |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 5.993              |  |
| WKA 15  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 5.192              |  |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 5.304              |  |
| WKA 16  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 5.394              |  |
| WKA 17  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 5.595              |  |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 6.109              |  |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 5.263              |  |
| WKA 18  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 5.674              |  |
| WKA 19  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 5.477              |  |
| WKA 19  | Existierend | Ja   | VESTAS            | V162-6.0-6.000          | 6.000         | 162,0      | 169,0 | 4.660              |  |
| WKA 2   | Existierend | Nein | ENRONWIND         | EW 1.5s-1.500           | 1.500         | 70,5       | 64,7  | 4.122              |  |
| WKA 2   | Existierend | Ja   | NORDEX            | N149/5.7-5.700          | 5.700         | 149,0      | 125,4 | 6.201              |  |
| WKA 20  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 6.036              |  |
| WKA 21  | Existierend | Nein | VESTAS            | V66-1.750               | 1.750         | 66,0       | 67,0  | 4.995              |  |
| WKA 22  | Existierend | Nein | VESTAS            | V66-1.750               | 1.750         | 66,0       | 67,0  | 4.742              |  |

(Fortsetzung nächste Seite)...

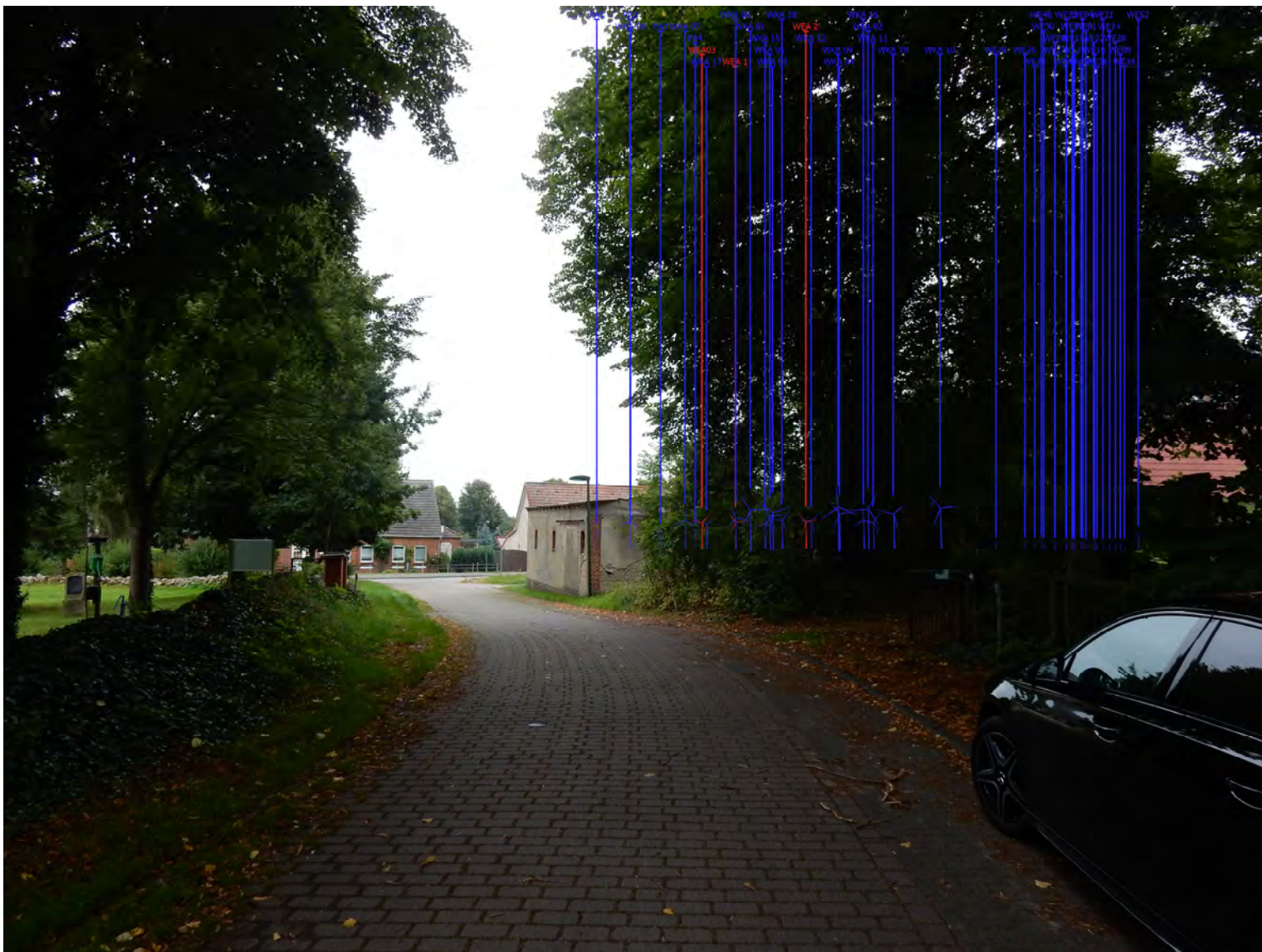


## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP12, Grebbin, Pfarrhaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller | Typ       | Nennleistung [kW]    | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |       |
|---------|-------------|------------|-----------|----------------------|----------------------|---------------|--------------------|-------|
| Aktuell | Existierend |            |           |                      |                      |               | FP12.01 Ka         | [m]   |
| WKA 23  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 4.322 |
| WKA 24  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 4.159 |
| WKA 25  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 3.878 |
| WKA 26  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.303 |
| WKA 27  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.351 |
| WKA 28  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.010 |
| WKA 29  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.425 |
| WKA 3   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 5.255 |
| WKA 30  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.590 |
| WKA 31  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 3.543 |
| WKA 32  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 3.845 |
| WKA 33  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.121 |
| WKA 34  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 3.528 |
| WKA 35  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 3.596 |
| WKA 36  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 3.820 |
| WKA 37  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.068 |
| WKA 38  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.547 |
| WKA 39  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.883 |
| WKA 4   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 5.047 |
| WKA 40  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 5.149 |
| WKA 41  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.827 |
| WKA 42  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.672 |
| WKA 43  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.602 |
| WKA 44  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 5.053 |
| WKA 46  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 4.277 |
| WKA 47  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 4.794 |
| WKA 48  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 5.098 |
| WKA 49  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 5.105 |
| WKA 5   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 4.841 |
| WKA 50  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 5.314 |
| WKA 51  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 5.524 |
| WKA 52  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 5.785 |
| WKA 53  | Existierend | Ja         | eno       | eno 82 2.05-2.050    | 2.050                | 82,4          | 108,0              | 6.428 |
| WKA 54  | Existierend | Nein       | NEG MICON | NM72C/1500-1.500/400 | 1.500                | 72,0          | 80,0               | 5.364 |
| WKA 55  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 5.387 |
| WKA 56  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 5.605 |
| WKA 57  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 5.831 |
| WKA 58  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 4.705 |
| WKA 59  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 113,5              | 4.988 |
| WKA 6   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 5.110 |
| WKA 60  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 3.822 |
| WKA 61  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 4.511 |
| WKA 62  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 4.296 |
| WKA 7   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 5.298 |
| WKA 8   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 5.501 |
| WKA 9   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 5.690 |



Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

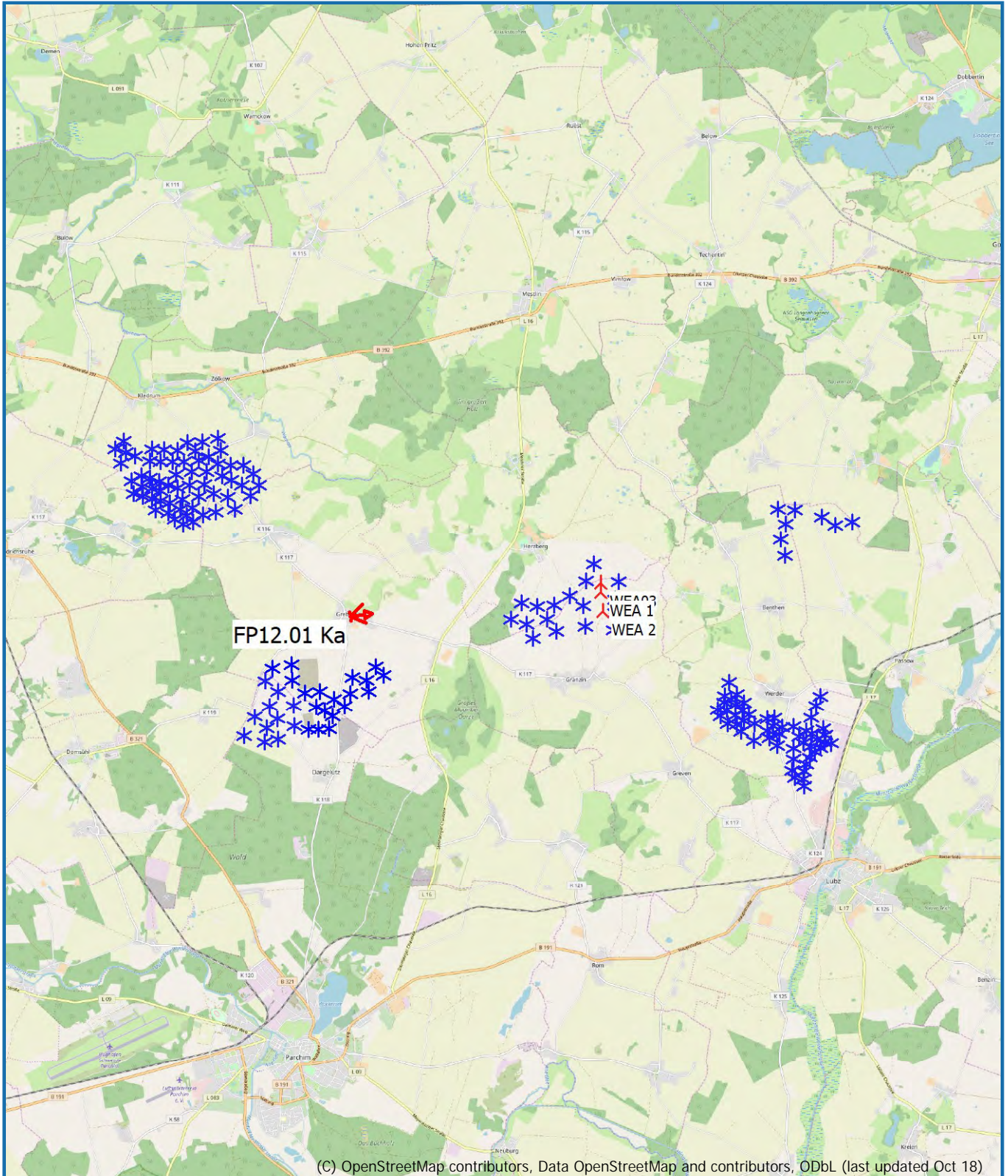
Fotoaufnahme: 02.09.2021 14:24:30  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 689.953 Nord: 5.933.380  
 Windrichtung: 0° Richtung des Fotos: 78°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP12.01 Ka FP12.01, Grebbin, Pfarrhaus, von Schulstraße

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP12, Grebbin, Pfarrhaus; 2022-08-24



0 2,5 5 7,5 10km

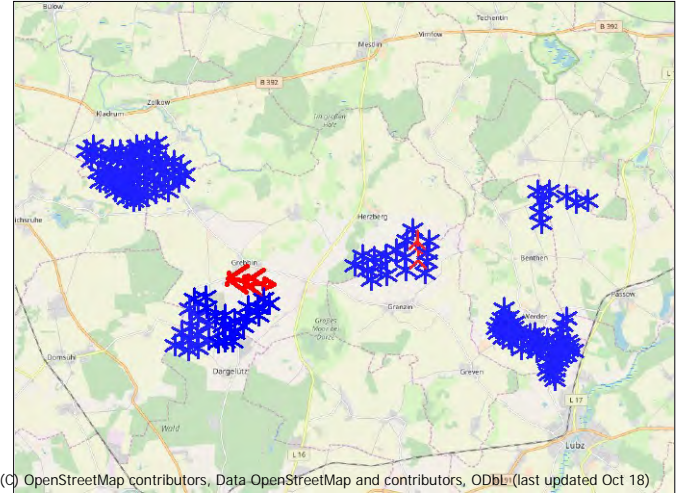
Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

Neue WEA \* Existierende WEA Kamera



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP13, Grebbin, Windmühle; 2022-08-24



Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP13.01 Ka FP13.01, Grebbin, Windmühle, von K119



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken -Schwer bedeckt mit Wolken (6/8) Foto-Daten im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 689.363 5.932.870 71.5 Sichtbarkei: Normal OSCH0324.JPG  
 Zielpunkt 689.611 5.932.874 86.7 Sonne Normal Geschichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung 91° Windricht: -0° Fotobeschreibung: FP13.01 Ka FP13.01, Grebbin, Windmühle, von K119

FP13.02 Ka(r) FP13.02, Grebbin, Windmühle, von K118 (fotorealistisch)



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken -Schwer bedeckt mit Wolken (6/8) Foto-Daten im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 689.603 5.932.778 72.2 Sichtbarkei: Normal OSCH0341.JPG  
 Zielpunkt 690.547 5.932.770 115.7 Sonne Normal Geschichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung 93° Windricht: -0° Fotobeschreibung: FP13.02 Ka(r) FP13.02, Grebbin, Windmühle, von K118 (fotorealistisch)

### WEA-Platzierung

| WEA-Id | Status      | WEA-Typ |            | Typ           | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |
|--------|-------------|---------|------------|---------------|-------------------|----------------------|---------------|--------------------|-------------------|
|        |             | Aktuell | Hersteller |               |                   |                      |               | FP13.01 Ka [m]     | FP13.02 Ka(r) [m] |
| B01    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 1.304              | 1.761             |
| B02    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 919                | 1.340             |
| B03    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 1.160              | 1.482             |
| B04    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 1.131              | 789               |
| B05    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 1.380              | 943               |
| B06    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 1.299              | 1.467             |
| B07    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 1.599              | 1.195             |
| B08    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 1.403              | 1.142             |
| B09    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 1.204              | 1.246             |
| B10    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 1.406              | 1.300             |
| B11    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 1.626              | 1.425             |
| B12    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 1.374              | 847               |
| B13    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 1.622              | 1.103             |
| B14    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 1.557              | 1.888             |
| B15    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 1.646              | 1.841             |
| B16    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 1.942              | 2.248             |
| B17    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 2.088              | 2.317             |
| B18    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 2.078              | 2.209             |

(Fortsetzung nächste Seite)...



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP13, Grebbin, Windmühle; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |
|------|-------------|------|------------|----------------------|-------------------|----------------------|---------------|--------------------|-------------------|
|      | Aktuell     |      |            |                      |                   |                      |               | FP13.01 Ka [m]     | FP13.02 Ka(r) [m] |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.339              | 2.658             |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.392              | 2.639             |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.491              | 2.664             |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.811              | 3.109             |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 2.688              | 2.907             |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 1.592              | 2.011             |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 2.092              | 2.134             |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 2.058              | 2.044             |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 2.057              | 1.975             |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 1.776              | 1.674             |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 1.636              | 1.597             |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 1.566              | 1.602             |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 10.682             | 10.182            |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 10.760             | 10.250            |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 10.572             | 10.055            |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 10.588             | 10.063            |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.038             | 10.535            |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.593             | 11.083            |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.843             | 11.327            |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 12.221             | 11.705            |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.358             | 9.790             |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.572             | 10.005            |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.990             | 10.423            |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 9.480              | 8.913             |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 11.014             | 10.448            |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 11.254             | 10.687            |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 11.111             | 10.544            |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.338             | 9.770             |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.545             | 9.978             |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.806             | 10.239            |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.988             | 10.421            |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 11.111             | 10.544            |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 10.930             | 10.363            |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 9.551              | 8.984             |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 9.774              | 9.207             |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 9.944              | 9.377             |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 11.174             | 10.607            |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 11.239             | 10.673            |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 11.576             | 11.009            |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 11.384             | 10.816            |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 60,0          | 10.259             | 9.691             |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 9.693              | 9.126             |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 10.355             | 9.788             |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 9.275              | 8.707             |
| WE25 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.428              | 8.862             |
| WE26 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.345              | 8.778             |
| WE27 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.444              | 8.877             |
| WE28 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.175              | 8.608             |
| WE29 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.230              | 8.665             |
| WE30 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.626              | 9.059             |
| WE31 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 11.327             | 10.760            |
| WE32 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 11.302             | 10.735            |
| WE33 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 10.540             | 9.973             |
| WE34 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.680              | 9.113             |
| WE35 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.180              | 8.614             |
| WE36 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.158              | 8.590             |
| WE37 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 10.192             | 9.625             |
| WE38 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.064              | 8.496             |
| WE39 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 11.314             | 10.749            |
| WE40 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 9.613              | 9.046             |
| WE41 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 11.373             | 10.808            |
| WE42 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 11.477             | 10.910            |
| WE43 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 11.281             | 10.714            |

(Fortsetzung nächste Seite)...





## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP13, Grebbin, Windmühle; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller | Typ       | Nennleistung [kW]    | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |       |
|---------|-------------|------------|-----------|----------------------|----------------------|---------------|--------------------|-------------------|-------|
| Aktuell | Existierend |            |           |                      |                      |               | FP13.01 Ka [m]     | FP13.02 Ka(r) [m] |       |
| WKA 4   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 4.883             | 5.366 |
| WKA 40  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 5.175             | 5.577 |
| WKA 41  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.754             | 5.200 |
| WKA 42  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.559             | 5.021 |
| WKA 43  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.432             | 4.916 |
| WKA 44  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 4.933             | 5.399 |
| WKA 46  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 4.286             | 4.693 |
| WKA 47  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 4.806             | 5.213 |
| WKA 48  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 5.085             | 5.505 |
| WKA 49  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 4.908             | 5.403 |
| WKA 5   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 4.689             | 5.167 |
| WKA 50  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 5.104             | 5.604 |
| WKA 51  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 5.302             | 5.806 |
| WKA 52  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 5.557             | 6.064 |
| WKA 53  | Existierend | Ja         | eno       | eno 82 2.05-2.050    | 2.050                | 82,4          | 108,0              | 6.275             | 6.757 |
| WKA 54  | Existierend | Nein       | NEG MICON | NM72C/1500-1.500/400 | 1.500                | 72,0          | 80,0               | 5.348             | 5.770 |
| WKA 55  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 5.329             | 5.770 |
| WKA 56  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 5.517             | 5.972 |
| WKA 57  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 5.718             | 6.183 |
| WKA 58  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 4.461             | 4.970 |
| WKA 59  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 113,5              | 4.728             | 5.243 |
| WKA 6   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 5.043             | 5.487 |
| WKA 60  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 3.705             | 4.165 |
| WKA 61  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 4.259             | 4.770 |
| WKA 62  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 4.048             | 4.558 |
| WKA 7   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 5.202             | 5.659 |
| WKA 8   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 5.377             | 5.846 |
| WKA 9   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 5.545             | 6.023 |



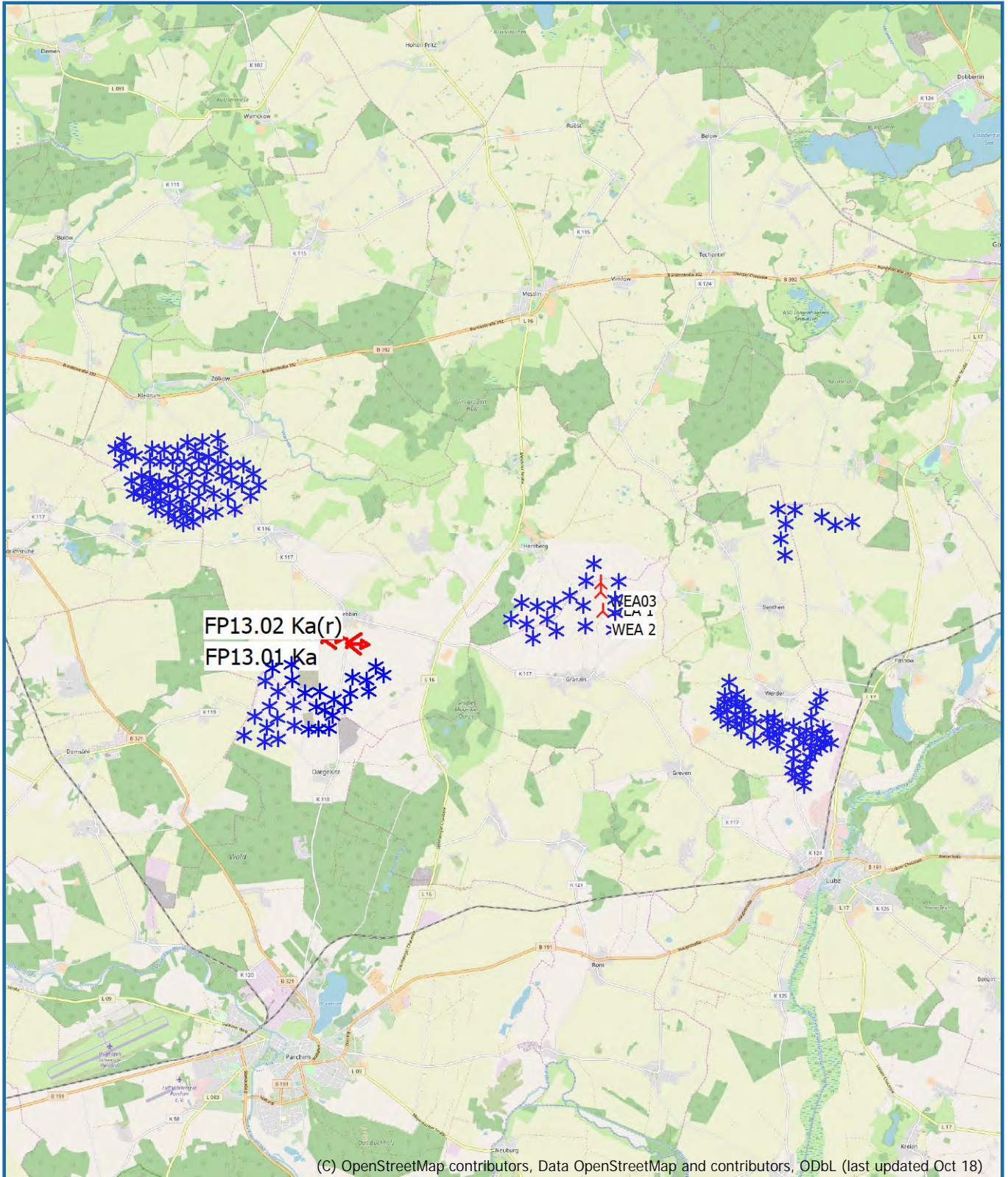






## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP13, Grebbin, Windmühle; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)



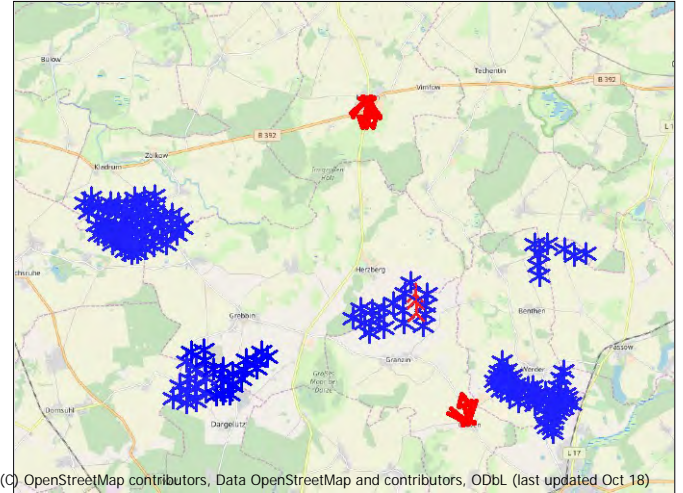
Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

Neue WEA \* Existierende WEA Kamera



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP14, Greven, Kirche; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)  
 Maßstab 1:250.000  
 Neue WEA (red arrow), Existierende WEA (blue star), Kamera (red arrow)

FP14.01 Ka FP14.01, Greven, Kirche, von Friedhof



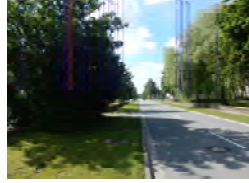
UTM (north) ETCSRP Zone: 32 Ost Nord Z Wellen Leistung bewirkt (kW) Foto-Datum im Querformat: 4608 x 3454 Pixel Kameraparam. 482.232 5.932.739 81,0 Schichtkern Normal OGD04764.JPG Geschwindigkeit: 49,4 km/h Brennweite: 25 mm Film: Zeiss/Zeiss Foto-Beschreibung: FP14.01 Ka FP14.01, Greven, Kirche

FP14.02 Ka FP14.02, Greven Kirche, von Friedhof



UTM (north) ETCSRP Zone: 32 Ost Nord Z Wellen Leistung bewirkt (kW) Foto-Datum im Querformat: 4608 x 3454 Pixel Kameraparam. 482.232 5.932.739 81,0 Schichtkern Normal OGD04764.JPG Geschwindigkeit: 49,4 km/h Brennweite: 25 mm Film: Zeiss/Zeiss Foto-Beschreibung: FP14.02 Ka FP14.02, Greven, Kirche

FP29.01 Ka FP29.01 Mestlin, Platzanlage, von Parchimer Straße



UTM (north) ETCSRP Zone: 32 Ost Nord Z Wellen Leistung bewirkt (kW) Foto-Datum im Querformat: 4608 x 3454 Pixel Kameraparam. 482.232 5.940.218 81,0 Schichtkern Normal OGD04764.JPG Geschwindigkeit: 49,4 km/h Brennweite: 25 mm Film: Zeiss/Zeiss Foto-Beschreibung: FP29.01 Ka FP29.01, Mestlin, Platzanlage

FP29.02 Ka FP29.02, Mestlin, Platzanlage, von Wiese vor Kulturhaus



UTM (north) ETCSRP Zone: 32 Ost Nord Z Wellen Leistung bewirkt (kW) Foto-Datum im Querformat: 4608 x 3454 Pixel Kameraparam. 482.232 5.940.218 81,0 Schichtkern Normal OGD04764.JPG Geschwindigkeit: 49,4 km/h Brennweite: 25 mm Film: Zeiss/Zeiss Foto-Beschreibung: FP29.02 Ka FP29.02, Mestlin, Platzanlage

FP29.03 Ka FP29.03, Mestlin, Platzanlage



UTM (north) ETCSRP Zone: 32 Ost Nord Z Wellen Leistung bewirkt (kW) Foto-Datum im Querformat: 4608 x 3454 Pixel Kameraparam. 482.232 5.940.218 81,0 Schichtkern Normal OGD04764.JPG Geschwindigkeit: 49,4 km/h Brennweite: 25 mm Film: Zeiss/Zeiss Foto-Beschreibung: FP29.03 Ka FP29.03, Mestlin, Platzanlage

### WEA-Platzierung

| WEA-Nummer | Status      | Aktuell | WEA-Typ | Hersteller    | Typ   | Nennleistung [kW] | Rotor-durch-messer [m] | Naben-höhe [m] | Abstand zur Kamera |            |            |            |            |
|------------|-------------|---------|---------|---------------|-------|-------------------|------------------------|----------------|--------------------|------------|------------|------------|------------|
|            |             |         |         |               |       |                   |                        |                | FP14.01 Ka         | FP14.02 Ka | FP29.01 Ka | FP29.02 Ka | FP29.03 Ka |
| B01        | Existierend | Ja      | ENERCON | E-82-2.000    | 2.000 | 82,0              | 78,3                   | 9.485          | 9.449              | 10.245     | 10.234     | 10.201     |            |
| B02        | Existierend | Ja      | ENERCON | E-82-2.000    | 2.000 | 82,0              | 78,3                   | 9.097          | 9.061              | 9.947      | 9.937      | 9.906      |            |
| B03        | Existierend | Ja      | ENERCON | E-82-2.000    | 2.000 | 82,0              | 78,3                   | 8.993          | 8.958              | 10.223     | 10.214     | 10.184     |            |
| B04        | Existierend | Ja      | ENERCON | E-82-2.000    | 2.000 | 82,0              | 108,3                  | 7.685          | 7.649              | 9.520      | 9.511      | 9.490      |            |
| B05        | Existierend | Ja      | ENERCON | E-82-2.000    | 2.000 | 82,0              | 108,3                  | 7.371          | 7.334              | 9.437      | 9.429      | 9.410      |            |
| B06        | Existierend | Ja      | ENERCON | E-82-2.000    | 2.000 | 82,0              | 78,3                   | 8.647          | 8.611              | 10.328     | 10.319     | 10.292     |            |
| B07        | Existierend | Ja      | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                  | 7.255          | 7.219              | 9.655      | 9.647      | 9.629      |            |
| B08        | Existierend | Ja      | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                  | 7.656          | 7.620              | 9.875      | 9.867      | 9.847      |            |
| B09        | Existierend | Ja      | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                  | 8.333          | 8.297              | 10.134     | 10.125     | 10.100     |            |
| B10        | Existierend | Ja      | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                  | 7.986          | 7.951              | 10.148     | 10.139     | 10.117     |            |
| B11        | Existierend | Ja      | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                  | 7.700          | 7.664              | 10.180     | 10.172     | 10.151     |            |
| B12        | Existierend | Ja      | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                  | 7.267          | 7.231              | 9.093      | 9.085      | 9.067      |            |
| B13        | Existierend | Ja      | ENERCON | E-82 E2-2.300 | 2.300 | 82,0              | 108,4                  | 7.038          | 7.001              | 9.196      | 9.188      | 9.172      |            |
| B14        | Existierend | Ja      | ENERCON | E-70 E4-2.000 | 2.000 | 71,0              | 85,0                   | 9.244          | 9.208              | 10.610     | 10.601     | 10.570     |            |
| B15        | Existierend | Ja      | ENERCON | E-70 E4-2.000 | 2.000 | 71,0              | 85,0                   | 8.843          | 8.808              | 10.694     | 10.685     | 10.657     |            |
| B16        | Existierend | Ja      | ENERCON | E-70 E4-2.000 | 2.000 | 71,0              | 85,0                   | 9.375          | 9.340              | 11.000     | 10.990     | 10.959     |            |
| B17        | Existierend | Ja      | ENERCON | E-70 E4-2.000 | 2.000 | 71,0              | 85,0                   | 9.151          | 9.117              | 11.151     | 11.142     | 11.113     |            |
| B18        | Existierend | Ja      | ENERCON | E-70 E4-2.000 | 2.000 | 71,0              | 85,0                   | 8.767          | 8.733              | 11.092     | 11.083     | 11.057     |            |

(Fortsetzung nächste Seite)...

### VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP14, Greven, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|      | WEA-Typ     | Ak-<br>tu-<br>ell | Hersteller | Typ                  | Nenn-<br>leistung<br>[kW] | Rotor-<br>durch-<br>messer<br>[m] | Naben-<br>höhe<br>[m] | Abstand zur Kamera |               |               |               |               |
|------|-------------|-------------------|------------|----------------------|---------------------------|-----------------------------------|-----------------------|--------------------|---------------|---------------|---------------|---------------|
|      |             |                   |            |                      |                           |                                   |                       | FP14.01<br>Ka      | FP14.02<br>Ka | FP29.01<br>Ka | FP29.02<br>Ka | FP29.03<br>Ka |
| B19  | Existierend | Ja                | ENERCON    | E-70 E4-2.000        | 2.000                     | 71,0                              | 85,0                  | 9.671              | 9.637         | 11.383        | 11.373        | 11.342        |
| B20  | Existierend | Ja                | ENERCON    | E-70 E4-2.000        | 2.000                     | 71,0                              | 85,0                  | 9.383              | 9.349         | 11.457        | 11.447        | 11.418        |
| B21  | Existierend | Ja                | ENERCON    | E-70 E4-2.000        | 2.000                     | 71,0                              | 85,0                  | 9.093              | 9.059         | 11.535        | 11.526        | 11.499        |
| B22  | Existierend | Ja                | ENERCON    | E-70 E4-2.000        | 2.000                     | 71,0                              | 85,0                  | 9.862              | 9.828         | 11.861        | 11.851        | 11.820        |
| B23  | Existierend | Ja                | ENERCON    | E-70 E4-2.000        | 2.000                     | 71,0                              | 85,0                  | 9.400              | 9.367         | 11.751        | 11.741        | 11.713        |
| B24  | Existierend | Ja                | ENERCON    | E-70 E4-2.000        | 2.000                     | 71,0                              | 85,0                  | 9.570              | 9.535         | 10.565        | 10.555        | 10.522        |
| B25  | Existierend | Ja                | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300                     | 71,0                              | 85,0                  | 8.430              | 8.396         | 11.016        | 11.007        | 10.984        |
| B26  | Existierend | Ja                | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300                     | 71,0                              | 85,0                  | 8.217              | 8.183         | 10.906        | 10.898        | 10.875        |
| B27  | Existierend | Ja                | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300                     | 71,0                              | 85,0                  | 7.972              | 7.938         | 10.794        | 10.785        | 10.764        |
| B28  | Existierend | Ja                | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300                     | 71,0                              | 85,0                  | 7.939              | 7.904         | 10.498        | 10.490        | 10.468        |
| B29  | Existierend | Ja                | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300                     | 71,0                              | 85,0                  | 8.132              | 8.097         | 10.463        | 10.454        | 10.431        |
| B30  | Existierend | Ja                | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300                     | 71,0                              | 85,0                  | 8.343              | 8.308         | 10.489        | 10.480        | 10.455        |
| PA1  | Existierend | Ja                | VESTAS     | V150-4.2-4.200       | 4.200                     | 150,0                             | 169,0                 | 6.328              | 6.321         | 7.328         | 7.335         | 7.400         |
| PA2  | Existierend | Ja                | VESTAS     | V150-4.2-4.200       | 4.200                     | 150,0                             | 169,0                 | 6.080              | 6.075         | 7.675         | 7.683         | 7.747         |
| PA3  | Existierend | Ja                | VESTAS     | V150-4.2-4.200       | 4.200                     | 150,0                             | 169,0                 | 5.708              | 5.703         | 7.840         | 7.847         | 7.910         |
| PA4  | Existierend | Ja                | VESTAS     | V150-4.2-4.200       | 4.200                     | 150,0                             | 169,0                 | 5.414              | 5.410         | 8.160         | 8.167         | 8.228         |
| PA5  | Existierend | Ja                | VESTAS     | V150-4.2-4.200       | 4.200                     | 150,0                             | 169,0                 | 6.451              | 6.446         | 7.626         | 7.634         | 7.700         |
| PA6  | Existierend | Ja                | VESTAS     | V150-4.2-4.200       | 4.200                     | 150,0                             | 169,0                 | 6.584              | 6.583         | 8.202         | 8.210         | 8.278         |
| PA7  | Existierend | Ja                | VESTAS     | V150-4.2-4.200       | 4.200                     | 150,0                             | 169,0                 | 6.567              | 6.568         | 8.562         | 8.571         | 8.638         |
| PA8  | Existierend | Ja                | VESTAS     | V150-4.2-4.200       | 4.200                     | 150,0                             | 169,0                 | 6.835              | 6.837         | 8.814         | 8.823         | 8.891         |
| WE01 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 2.336              | 2.356         | 11.108        | 11.112        | 11.159        |
| WE02 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 2.515              | 2.537         | 11.239        | 11.243        | 11.291        |
| WE03 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 2.580              | 2.610         | 12.006        | 12.009        | 12.057        |
| WE04 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 1.791              | 1.800         | 10.500        | 10.503        | 10.547        |
| WE05 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 2.522              | 2.554         | 12.203        | 12.207        | 12.253        |
| WE06 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 3.091              | 3.117         | 11.712        | 11.716        | 11.767        |
| WE07 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 2.980              | 3.005         | 11.592        | 11.596        | 11.646        |
| WE08 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 2.149              | 2.172         | 11.318        | 11.322        | 11.368        |
| WE09 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 2.394              | 2.418         | 11.355        | 11.359        | 11.407        |
| WE10 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 2.742              | 2.765         | 11.350        | 11.354        | 11.404        |
| WE11 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 2.806              | 2.831         | 11.608        | 11.613        | 11.662        |
| WE12 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 2.857              | 2.884         | 11.787        | 11.791        | 11.841        |
| WE13 | Existierend | Nein              | ENERCON    | E-40/5.40-500        | 500                       | 40,3                              | 65,0                  | 2.618              | 2.645         | 11.791        | 11.795        | 11.843        |
| WE14 | Existierend | Nein              | JACOBS     | 43/600-600/100       | 600                       | 43,0                              | 60,0                  | 1.658              | 1.670         | 10.715        | 10.718        | 10.761        |
| WE15 | Existierend | Nein              | JACOBS     | 43/600-600/100       | 600                       | 43,0                              | 60,0                  | 2.012              | 2.025         | 10.632        | 10.635        | 10.680        |
| WE16 | Existierend | Nein              | JACOBS     | 43/600-600/100       | 600                       | 43,0                              | 60,0                  | 1.991              | 2.008         | 10.883        | 10.886        | 10.932        |
| WE17 | Existierend | Nein              | JACOBS     | 43/600-600/100       | 600                       | 43,0                              | 60,0                  | 3.194              | 3.217         | 11.401        | 11.406        | 11.458        |
| WE18 | Existierend | Nein              | JACOBS     | 43/600-600/100       | 600                       | 43,0                              | 60,0                  | 3.409              | 3.430         | 11.228        | 11.233        | 11.286        |
| WE19 | Existierend | Nein              | NEG MICON  | NM 43/600-600/150    | 600                       | 43,0                              | 60,0                  | 3.324              | 3.352         | 12.034        | 12.038        | 12.090        |
| WE20 | Existierend | Nein              | NEG MICON  | NM 43/600-600/150    | 600                       | 43,0                              | 60,0                  | 3.160              | 3.187         | 11.879        | 11.883        | 11.934        |
| WE21 | Existierend | Nein              | NEG MICON  | NM48/750-750/200     | 750                       | 48,2                              | 70,0                  | 2.172              | 2.193         | 11.151        | 11.155        | 11.201        |
| WE22 | Existierend | Nein              | NEG MICON  | NM48/750-750/200     | 750                       | 48,2                              | 70,0                  | 1.837              | 1.851         | 10.710        | 10.713        | 10.757        |
| WE23 | Existierend | Nein              | NEG MICON  | NM48/750-750/200     | 750                       | 48,2                              | 70,0                  | 2.441              | 2.459         | 10.976        | 10.980        | 11.028        |
| WE24 | Existierend | Nein              | NEG MICON  | NM48/750-750/200     | 750                       | 48,2                              | 70,0                  | 1.757              | 1.761         | 10.316        | 10.318        | 10.361        |
| WE25 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 2.171              | 2.175         | 10.087        | 10.090        | 10.135        |
| WE26 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 1.513              | 1.522         | 10.617        | 10.619        | 10.662        |
| WE27 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 1.962              | 1.968         | 10.298        | 10.301        | 10.345        |
| WE28 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 1.859              | 1.860         | 10.129        | 10.131        | 10.174        |
| WE29 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 2.313              | 2.311         | 9.770         | 9.773         | 9.818         |
| WE30 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 2.128              | 2.136         | 10.339        | 10.342        | 10.387        |
| WE31 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 2.941              | 2.971         | 12.148        | 12.152        | 12.201        |
| WE32 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 3.016              | 3.044         | 11.943        | 11.947        | 11.997        |
| WE33 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 2.258              | 2.284         | 11.546        | 11.550        | 11.596        |
| WE34 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 1.648              | 1.664         | 10.893        | 10.896        | 10.940        |
| WE35 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 2.006              | 2.006         | 10.001        | 10.004        | 10.048        |
| WE36 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 1.557              | 1.561         | 10.384        | 10.386        | 10.428        |
| WE37 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 2.291              | 2.309         | 10.904        | 10.907        | 10.954        |
| WE38 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 1.638              | 1.638         | 10.226        | 10.228        | 10.270        |
| WE39 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 61,5                  | 3.595              | 3.614         | 11.119        | 11.124        | 11.178        |
| WE40 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 73,8                  | 1.970              | 1.979         | 10.479        | 10.482        | 10.527        |
| WE41 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 73,8                  | 2.813              | 2.847         | 12.631        | 12.635        | 12.682        |
| WE42 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 73,8                  | 3.360              | 3.386         | 11.755        | 11.759        | 11.811        |
| WE43 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 73,8                  | 2.796              | 2.828         | 12.346        | 12.350        | 12.398        |
| WE44 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 73,8                  | 2.784              | 2.817         | 12.486        | 12.490        | 12.537        |
| WE45 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 73,8                  | 2.589              | 2.622         | 12.369        | 12.372        | 12.419        |
| WE46 | Existierend | Nein              | NEG MICON  | NM52/900-900/200     | 900                       | 52,0                              | 73,8                  | 2.011              | 2.014         | 10.137        | 10.140        | 10.184        |

(Fortsetzung nächste Seite)...



### VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP14, Greven, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA    | Status      | WEA-Typ | Hersteller     | Typ                     | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |         |         |         |         |     |
|--------|-------------|---------|----------------|-------------------------|--------------|-------------------|-----------|--------------------|---------|---------|---------|---------|-----|
|        |             |         |                |                         |              |                   |           | FP14.01            | FP14.02 | FP29.01 | FP29.02 | FP29.03 |     |
|        |             | Aktuell |                |                         | [kW]         | [m]               | [m]       | [m]                | [m]     | [m]     | [m]     | [m]     | [m] |
| WE47   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 2.835              | 2.866   | 12.218  | 12.222  | 12.271  |     |
| WE48   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.466              | 3.494   | 12.137  | 12.142  | 12.194  |     |
| WE49   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.204              | 3.232   | 12.082  | 12.086  | 12.137  |     |
| WE50   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.382              | 3.408   | 11.908  | 11.913  | 11.965  |     |
| WE51   | Existierend | Nein    | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.063              | 3.093   | 12.100  | 12.104  | 12.154  |     |
| WE52   | Existierend | Ja      | NORDEX         | N117/3600-3.600         | 3.600        | 116,8             | 140,6     | 1.807              | 1.829   | 11.207  | 11.210  | 11.255  |     |
| WEA 1  | Neu         | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 4.424              | 4.394   | 6.871   | 6.871   | 6.900   |     |
| WEA 2  | Neu         | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 4.021              | 3.990   | 7.295   | 7.295   | 7.324   |     |
| WEA03  | Neu         | Ja      | eno            | eno160-6.0MW_rev1-6.000 | 6.000        | 160,0             | 165,0     | 4.617              | 4.587   | 6.667   | 6.667   | 6.697   |     |
| WKA 01 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.237              | 5.201   | 6.935   | 6.931   | 6.941   |     |
| WKA 02 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.799              | 4.762   | 7.417   | 7.414   | 7.425   |     |
| WKA 03 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.937              | 4.902   | 7.003   | 7.000   | 7.014   |     |
| WKA 04 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.566              | 4.530   | 7.311   | 7.309   | 7.324   |     |
| WKA 05 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.725              | 4.690   | 6.985   | 6.983   | 7.000   |     |
| WKA 06 | Existierend | Ja      | VESTAS         | V150-5.6-5.600          | 5.600        | 150,0             | 169,0     | 4.697              | 4.664   | 6.815   | 6.813   | 6.835   |     |
| WKA 07 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.809              | 4.778   | 6.544   | 6.543   | 6.569   |     |
| WKA 08 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.068              | 5.038   | 6.222   | 6.222   | 6.251   |     |
| WKA 09 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.158              | 5.121   | 7.304   | 7.300   | 7.307   |     |
| WKA 1  | Existierend | Nein    | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 12.540             | 12.502  | 9.237   | 9.224   | 9.167   |     |
| WKA 10 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.489              | 4.452   | 7.724   | 7.721   | 7.733   |     |
| WKA 10 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.422             | 14.385  | 9.827   | 9.814   | 9.748   |     |
| WKA 11 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 3.544              | 3.513   | 7.753   | 7.753   | 7.783   |     |
| WKA 11 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.664             | 14.626  | 10.015  | 10.002  | 9.935   |     |
| WKA 12 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 12.740             | 12.702  | 9.285   | 9.272   | 9.214   |     |
| WKA 12 | Existierend | Ja      | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 3.887              | 3.857   | 7.385   | 7.385   | 7.416   |     |
| WKA 13 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.003             | 12.966  | 9.406   | 9.393   | 9.333   |     |
| WKA 14 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.207             | 13.170  | 9.561   | 9.548   | 9.488   |     |
| WKA 15 | Existierend | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 4.155              | 4.126   | 7.105   | 7.105   | 7.137   |     |
| WKA 15 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.410             | 13.372  | 9.717   | 9.704   | 9.643   |     |
| WKA 16 | Existierend | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 3.934              | 3.900   | 7.542   | 7.541   | 7.565   |     |
| WKA 16 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.614             | 13.577  | 9.877   | 9.864   | 9.802   |     |
| WKA 17 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.818             | 13.781  | 10.037  | 10.024  | 9.962   |     |
| WKA 17 | Existierend | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 4.499              | 4.471   | 6.750   | 6.751   | 6.784   |     |
| WKA 18 | Existierend | Ja      | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 4.340              | 4.308   | 7.089   | 7.088   | 7.113   |     |
| WKA 18 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.867             | 13.830  | 9.710   | 9.697   | 9.633   |     |
| WKA 19 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.665             | 13.628  | 9.559   | 9.546   | 9.483   |     |
| WKA 19 | Existierend | Ja      | VESTAS         | V162-6.0-6.000          | 6.000        | 162,0             | 169,0     | 4.235              | 4.199   | 7.585   | 7.583   | 7.600   |     |
| WKA 2  | Existierend | Nein    | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 12.340             | 12.302  | 9.193   | 9.180   | 9.124   |     |
| WKA 2  | Existierend | Ja      | NORDEX         | N149/5.7-5.700          | 5.700        | 149,0             | 125,4     | 14.393             | 14.356  | 10.006  | 9.992   | 9.927   |     |
| WKA 20 | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.197             | 14.160  | 9.655   | 9.642   | 9.576   |     |
| WKA 21 | Existierend | Nein    | VESTAS         | V66-1.750               | 1.750        | 66,0              | 67,0      | 12.850             | 12.813  | 7.783   | 7.770   | 7.706   |     |
| WKA 22 | Existierend | Nein    | VESTAS         | V66-1.750               | 1.750        | 66,0              | 67,0      | 12.646             | 12.608  | 7.854   | 7.840   | 7.778   |     |
| WKA 23 | Existierend | Nein    | VESTAS         | V66-1.750               | 1.750        | 66,0              | 67,0      | 12.253             | 12.216  | 7.807   | 7.794   | 7.734   |     |
| WKA 24 | Existierend | Nein    | VESTAS         | V66-1.750               | 1.750        | 66,0              | 67,0      | 12.025             | 11.987  | 7.559   | 7.546   | 7.487   |     |
| WKA 25 | Existierend | Nein    | VESTAS         | V66-1.750               | 1.750        | 66,0              | 67,0      | 11.736             | 11.698  | 7.469   | 7.456   | 7.399   |     |
| WKA 26 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.498             | 12.460  | 9.028   | 9.015   | 8.958   |     |
| WKA 27 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.507             | 12.469  | 8.777   | 8.764   | 8.706   |     |
| WKA 28 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.206             | 12.168  | 8.916   | 8.904   | 8.847   |     |
| WKA 29 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.530             | 12.493  | 8.532   | 8.519   | 8.460   |     |
| WKA 3  | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.438             | 13.400  | 9.393   | 9.380   | 9.318   |     |
| WKA 30 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.642             | 12.604  | 8.350   | 8.337   | 8.276   |     |
| WKA 31 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 11.655             | 11.617  | 8.250   | 8.238   | 8.183   |     |
| WKA 32 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 11.932             | 11.894  | 8.237   | 8.224   | 8.168   |     |
| WKA 33 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.234             | 12.196  | 8.454   | 8.441   | 8.383   |     |
| WKA 34 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 11.521             | 11.484  | 7.799   | 7.786   | 7.731   |     |
| WKA 35 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 11.486             | 11.448  | 7.502   | 7.489   | 7.434   |     |
| WKA 36 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 11.794             | 11.757  | 7.810   | 7.797   | 7.740   |     |
| WKA 37 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.069             | 12.032  | 7.970   | 7.957   | 7.899   |     |
| WKA 38 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.521             | 12.484  | 8.031   | 8.018   | 7.957   |     |
| WKA 39 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.916             | 12.878  | 8.386   | 8.373   | 8.311   |     |
| WKA 4  | Existierend | Nein    | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.225             | 13.187  | 9.243   | 9.230   | 9.169   |     |
| WKA 40 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 13.089             | 13.052  | 8.134   | 8.121   | 8.057   |     |
| WKA 41 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.922             | 12.885  | 8.648   | 8.635   | 8.573   |     |
| WKA 42 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.813             | 12.776  | 8.829   | 8.815   | 8.755   |     |
| WKA 43 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 12.791             | 12.753  | 9.118   | 9.105   | 9.046   |     |
| WKA 44 | Existierend | Nein    | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0              | 85,0      | 13.193             | 13.155  | 8.991   | 8.978   | 8.916   |     |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP14, Greven, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WKA    | Existierend | WEA-Typ  |            | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |            |            |            |     |
|--------|-------------|----------|------------|----------------------|--------------|-------------------|-----------|--------------------|------------|------------|------------|------------|-----|
|        |             | Ak-tuell | Hersteller |                      |              |                   |           | FP14.01 Ka         | FP14.02 Ka | FP29.01 Ka | FP29.02 Ka | FP29.03 Ka |     |
|        |             |          |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]        | [m]        | [m]        | [m] |
| WKA 46 | Existierend | Ja       | NORDEX     | N131/3300 DE-3.300   | 3.300        | 131,0             | 164,0     | 12.293             | 12.256     | 8.094      | 8.081      | 8.022      |     |
| WKA 47 | Existierend | Ja       | NORDEX     | N131/3300 DE-3.300   | 3.300        | 131,0             | 164,0     | 12.776             | 12.739     | 8.151      | 8.138      | 8.075      |     |
| WKA 48 | Existierend | Ja       | NORDEX     | N131/3300 DE-3.300   | 3.300        | 131,0             | 164,0     | 13.105             | 13.068     | 8.369      | 8.356      | 8.292      |     |
| WKA 49 | Existierend | Ja       | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 13.304             | 13.267     | 9.456      | 9.443      | 9.381      |     |
| WKA 5  | Existierend | Nein     | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 13.012             | 12.975     | 9.098      | 9.085      | 9.024      |     |
| WKA 50 | Existierend | Ja       | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 13.518             | 13.481     | 9.620      | 9.607      | 9.545      |     |
| WKA 51 | Existierend | Ja       | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 13.733             | 13.696     | 9.788      | 9.775      | 9.712      |     |
| WKA 52 | Existierend | Ja       | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 13.995             | 13.957     | 9.946      | 9.933      | 9.870      |     |
| WKA 53 | Existierend | Ja       | eno        | eno 82 2.05-2.050    | 2.050        | 82,4              | 108,0     | 14.574             | 14.536     | 9.768      | 9.755      | 9.688      |     |
| WKA 54 | Existierend | Nein     | NEG MICON  | NM72C/1500-1.500/400 | 1.500        | 72,0              | 80,0      | 13.363             | 13.325     | 8.453      | 8.439      | 8.374      |     |
| WKA 55 | Existierend | Ja       | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 13.444             | 13.407     | 8.721      | 8.708      | 8.644      |     |
| WKA 56 | Existierend | Ja       | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 13.696             | 13.658     | 8.990      | 8.977      | 8.912      |     |
| WKA 57 | Existierend | Ja       | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 13.946             | 13.908     | 9.238      | 9.224      | 9.159      |     |
| WKA 58 | Existierend | Ja       | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 12.929             | 12.891     | 9.552      | 9.539      | 9.480      |     |
| WKA 59 | Existierend | Nein     | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 113,5     | 13.215             | 13.177     | 9.759      | 9.746      | 9.686      |     |
| WKA 6  | Existierend | Nein     | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 13.189             | 13.151     | 8.694      | 8.681      | 8.618      |     |
| WKA 60 | Existierend | Nein     | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.990             | 11.952     | 8.642      | 8.629      | 8.574      |     |
| WKA 61 | Existierend | Ja       | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 12.738             | 12.700     | 9.510      | 9.497      | 9.440      |     |
| WKA 62 | Existierend | Ja       | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 12.523             | 12.485     | 9.403      | 9.391      | 9.334      |     |
| WKA 7  | Existierend | Nein     | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 13.406             | 13.369     | 8.930      | 8.916      | 8.853      |     |
| WKA 8  | Existierend | Nein     | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 13.635             | 13.597     | 9.177      | 9.164      | 9.100      |     |
| WKA 9  | Existierend | Nein     | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 13.841             | 13.803     | 9.384      | 9.371      | 9.306      |     |





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 15:54:05  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 697.538 Nord: 5.930.178  
 Windrichtung: 0° Richtung des Fotos: 333°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP14.01 Ka FP14.01, Greven, Kirche, von Friedhof

Erzeugt von:  
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 Raimund Wörl / raimund.woerl@eno-site.com





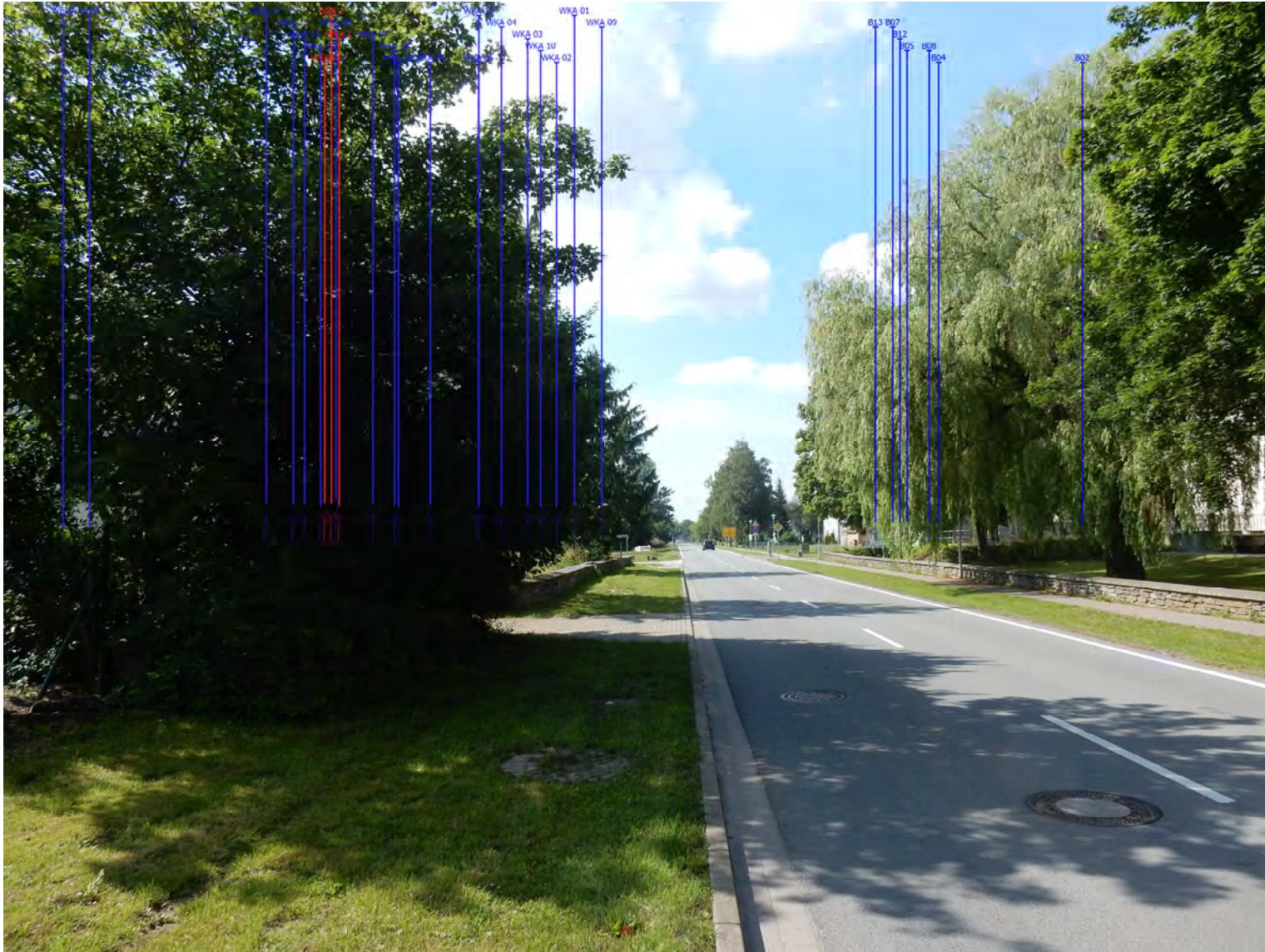
Projekt: WEA: 172  
0108-Granzin

Empfohlener Betrachtungsabstand: 15 cm

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Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 697.505 Nord: 5.930.196  
Windrichtung: 0° Richtung des Fotos: 345°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP14.02 Ka FP14.02, Greven Kirche, von Friedhof

Erzeugt von:  
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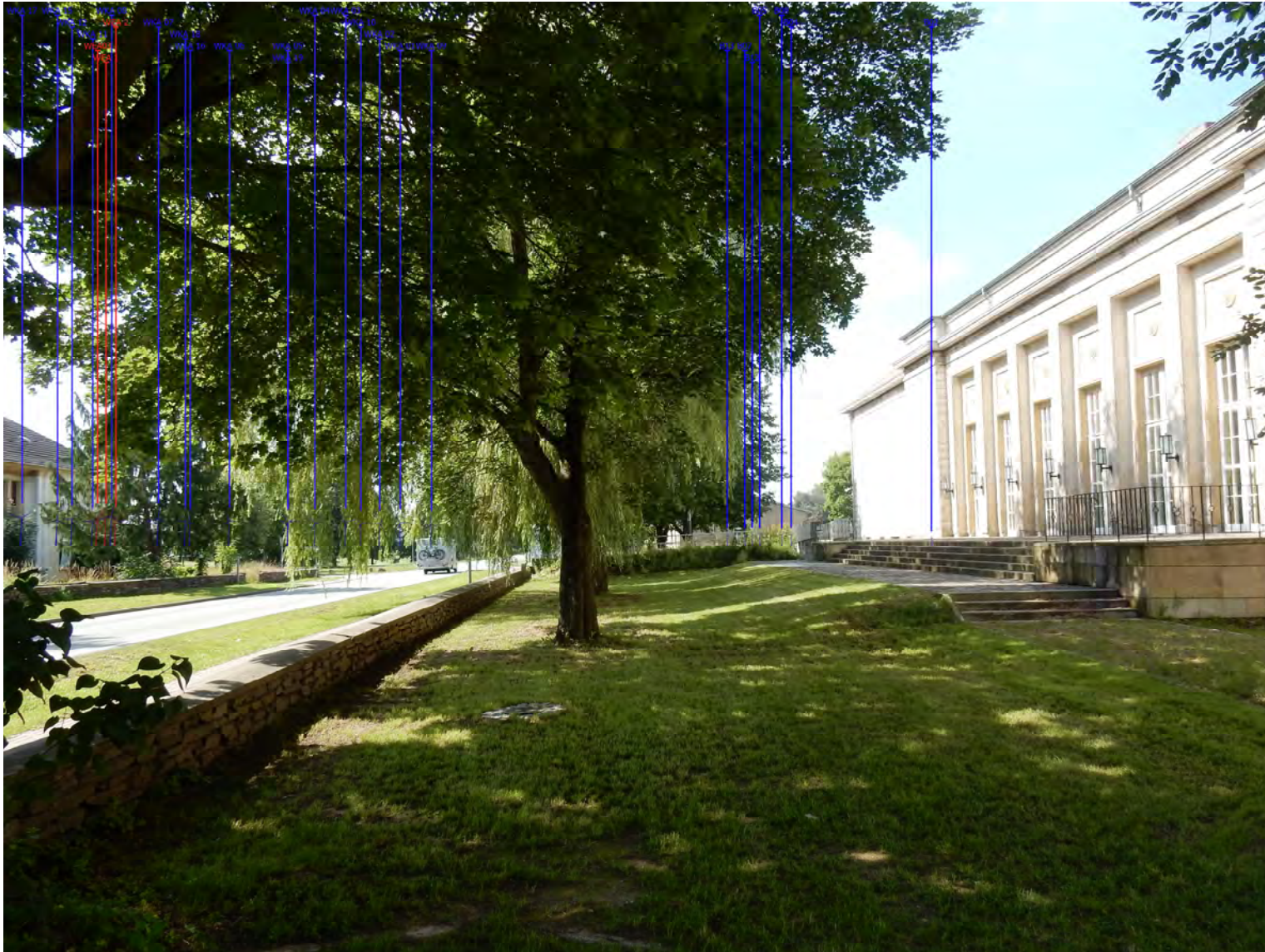
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 14 cm**

Fotoaufnahme: 13.07.2021 11:00:08  
 Gesichtsfeld: 71,9°x57,1° Brennweite: 24 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 693.775 Nord: 5.940.778  
 Windrichtung: 0° Richtung des Fotos: 186°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP29.01 Ka FP29.01 Mestlin, Platzanlage, von Parchimer Straße

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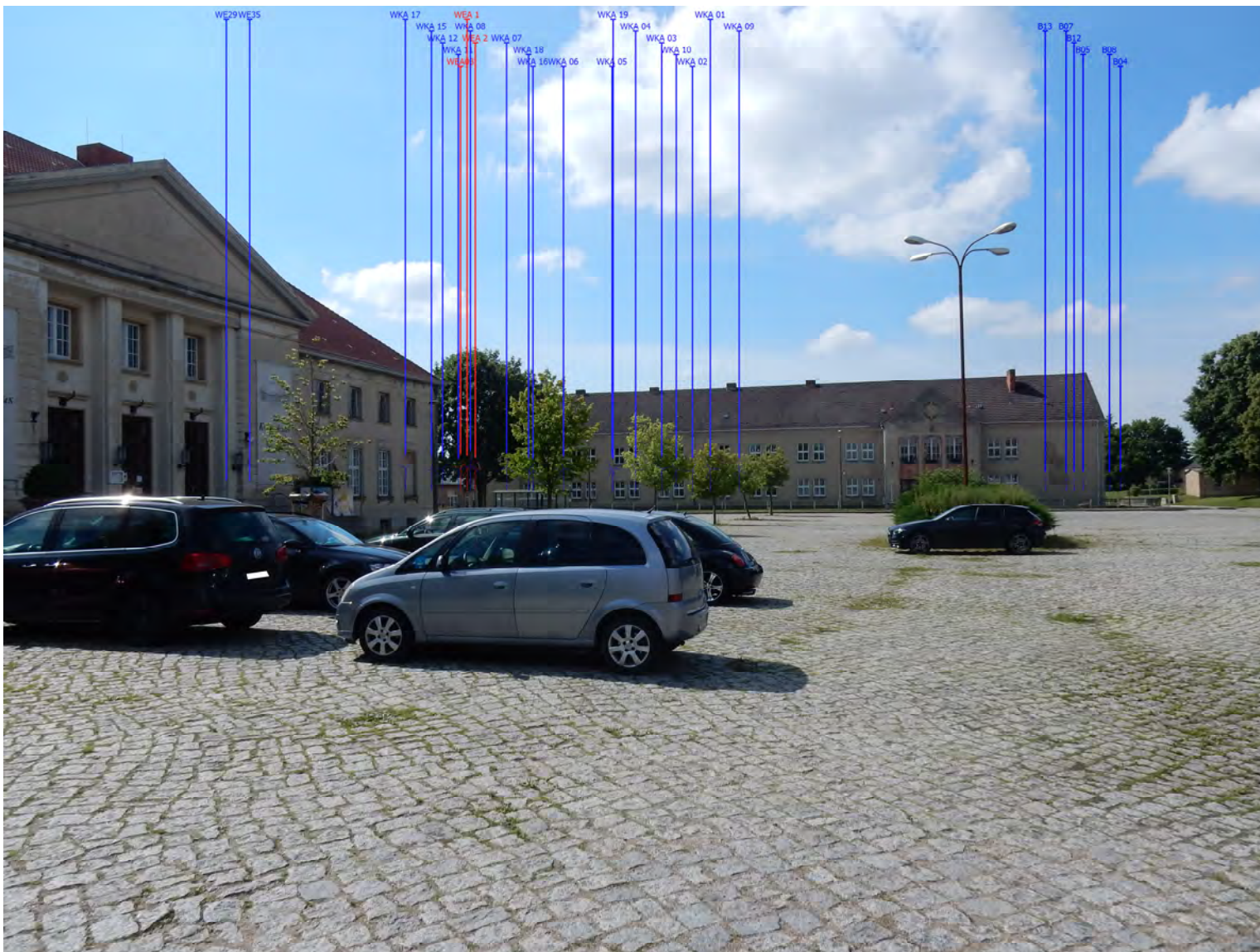
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 11:01:00  
 Gesichtsfeld: 67,3°x53,1° Brennweite: 26 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 693.762 Nord: 5.940.774  
 Windrichtung: 0° Richtung des Fotos: 196°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP29.02 Ka FP29.02, Mestlin, Platzanlage, von Wiese vor Kulturhaus

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Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

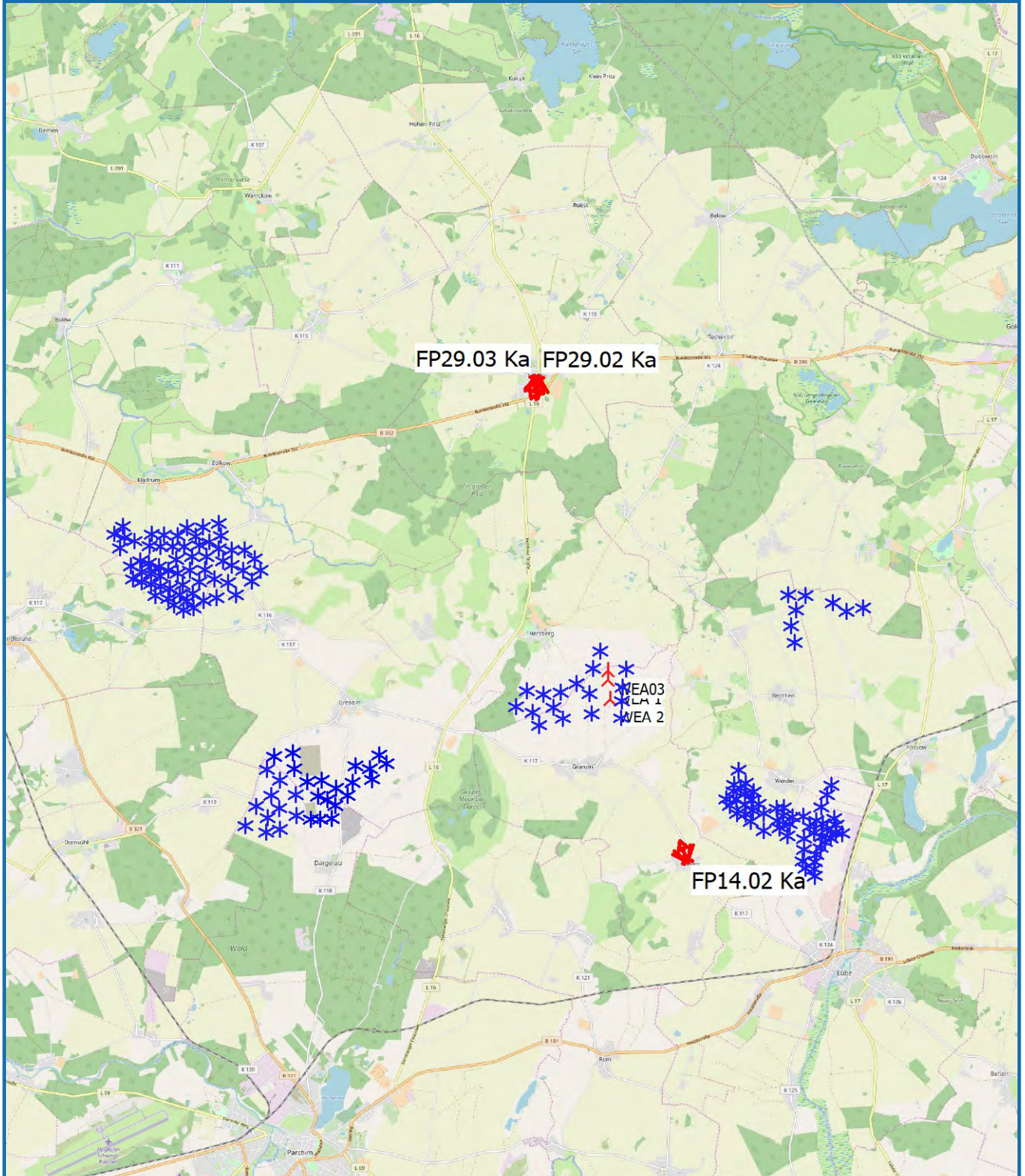
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 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 693.686 Nord: 5.940.783  
 Windrichtung: 0° Richtung des Fotos: 177°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP29.03 Ka FP29.03, Mestlin, Platzanlage

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### VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP14, Greven, Kirche; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

0 2,5 5 7,5 10km

Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.935.387

📍 Neue WEA    ⚙️ Existierende WEA    📷 Kamera

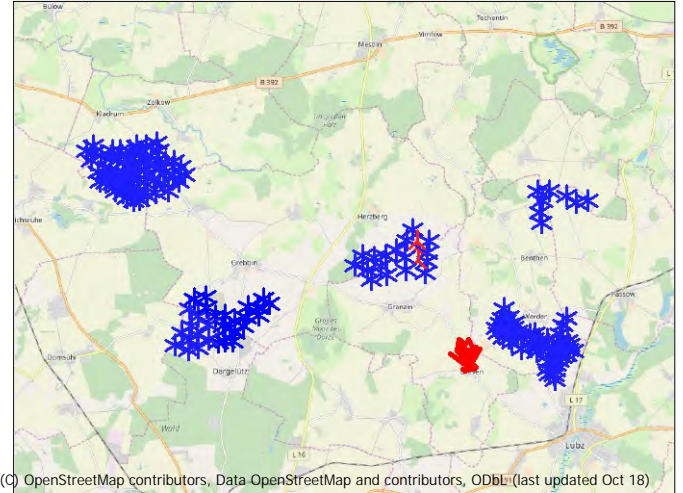


Projekt: 0108-Granzin Beschreibung: Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender: enosite GmbH  
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 Raimund Wörl / raimund.woerl@eno-site.com  
 Berechnet: 25.08.2022 11:13/3.5.584

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP15/16, Greven, Park/Gutshaus; 2022-08-24



Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP15/16.01 Ka FP15/16.01, Greven, Park/Gutshaus, von Am Wirtschaftshof



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken hellweisse bewölkt (4/8) Foto-Datens im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 697.510 5.930.220 61.0 Sichtbarkeit Normal DSCN6570.JPG  
 Zielpunkt 697.474 5.930.513 72.8 Sonne Normal Geschichtsfeld: 67,3°x53,1° Brennweite: 26 mm Film: 35x26 mm  
 Foto-Richtung 341° Windricht.: 0° Fotobeschreibung: FP15/16.01 Ka FP15/16.01, Greven, Park/Gutshaus, von Am Wirtschaftshof

FP15/16.02 Ka FP15/16.02, Greven, Park/Gutshaus, Einfahrt, von Am Wirtschaftshof



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken hellweisse bewölkt (4/8) Foto-Datens im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 697.429 5.930.220 60.1 Sichtbarkeit Normal DSCN6202.JPG  
 Zielpunkt 697.435 5.930.320 64.5 Sonne Normal Geschichtsfeld: 60,0°x46,8° Brennweite: 30 mm Film: 35x26 mm  
 Foto-Richtung 0° Windricht.: 0° Fotobeschreibung: FP15/16.02 Ka FP15/16.02, Greven, Park/Gutshaus, Einfahrt, von Am Wirtschaftshof

FP15/16.03 Ka FP15/16.03, Greven, Park/Gutshaus, von Terasse



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken hellweisse bewölkt (4/8) Foto-Datens im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 697.455 5.930.283 60.8 Sichtbarkeit Normal DSCN6206.JPG  
 Zielpunkt 697.403 5.930.386 65.4 Sonne Normal Geschichtsfeld: 60,0°x46,8° Brennweite: 30 mm Film: 35x26 mm  
 Foto-Richtung 336° Windricht.: 0° Fotobeschreibung: FP15/16.03 Ka FP15/16.03, Greven, Park/Gutshaus, von Terasse

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP15/16, Greven, Park/Gutshaus; 2022-08-24

### WEA-Platzierung

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |            |
|------|-------------|------|------------|----------------------|--------------|-------------------|-----------|--------------------|------------|------------|
|      | Aktuell     |      |            |                      |              |                   |           | FP15/16.01         | FP15/16.02 | FP15/16.03 |
|      |             |      |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]        |
| B01  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 9.449              | 9.380      | 9.383      |
| B02  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 9.061              | 8.991      | 8.993      |
| B03  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 8.958              | 8.888      | 8.892      |
| B04  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 7.648              | 7.579      | 7.580      |
| B05  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 7.334              | 7.265      | 7.265      |
| B06  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 8.612              | 8.542      | 8.548      |
| B07  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 7.219              | 7.149      | 7.152      |
| B08  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 7.621              | 7.551      | 7.555      |
| B09  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 8.298              | 8.228      | 8.233      |
| B10  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 7.952              | 7.882      | 7.887      |
| B11  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 7.666              | 7.595      | 7.602      |
| B12  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 7.229              | 7.160      | 7.158      |
| B13  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 7.000              | 6.931      | 6.930      |
| B14  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.210              | 9.139      | 9.146      |
| B15  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.811              | 8.740      | 8.748      |
| B16  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.343              | 9.272      | 9.281      |
| B17  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.120              | 9.049      | 9.060      |
| B18  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.737              | 8.665      | 8.677      |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.640              | 9.569      | 9.580      |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.353              | 9.282      | 9.294      |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.064              | 8.992      | 9.006      |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.833              | 9.761      | 9.775      |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.372              | 9.300      | 9.315      |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.536              | 9.466      | 9.471      |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 8.399              | 8.328      | 8.340      |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 8.187              | 8.116      | 8.127      |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 7.941              | 7.870      | 7.881      |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 7.907              | 7.836      | 7.845      |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 8.099              | 8.028      | 8.037      |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 8.310              | 8.240      | 8.247      |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 6.297              | 6.320      | 6.255      |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 6.050              | 6.076      | 6.012      |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 5.679              | 5.705      | 5.641      |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 5.386              | 5.415      | 5.351      |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 6.422              | 6.448      | 6.384      |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 6.559              | 6.592      | 6.529      |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 6.544              | 6.580      | 6.518      |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 6.814              | 6.853      | 6.791      |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.340              | 2.404      | 2.361      |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.522              | 2.587      | 2.547      |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.601              | 2.672      | 2.648      |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 1.779              | 1.828      | 1.773      |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.548              | 2.619      | 2.601      |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.105              | 3.173      | 3.139      |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.991              | 3.059      | 3.024      |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.158              | 2.225      | 2.188      |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.404              | 2.470      | 2.433      |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.751              | 2.816      | 2.778      |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.819              | 2.887      | 2.853      |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.872              | 2.941      | 2.911      |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.635              | 2.704      | 2.675      |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 1.651              | 1.706      | 1.654      |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 2.005              | 2.059      | 2.007      |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 1.991              | 2.050      | 2.003      |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 3.202              | 3.267      | 3.228      |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 3.414              | 3.477      | 3.434      |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 3.341              | 3.411      | 3.382      |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 3.176              | 3.245      | 3.214      |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 60,0      | 2.178              | 2.242      | 2.201      |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 1.831              | 1.887      | 1.836      |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 2.442              | 2.504      | 2.459      |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 1.739              | 1.782      | 1.722      |

(Fortsetzung nächste Seite)...



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP15/16, Greven, Park/Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ | Hersteller  | Typ  | Nennleistung   | Rotor-durchmesser       | Nabenhöhe | Abstand zur Kamera |               |               |        |        |
|---------|-------------|------|----------------|-------------------------|-----------|--------------------|---------------|---------------|--------|--------|
|         |             |      |                |                         |           | FP15/16.01 Ka      | FP15/16.02 Ka | FP15/16.03 Ka |        |        |
| Aktuell |             |      | [kW]           | [m]                     | [m]       | [m]                | [m]           | [m]           |        |        |
| WE25    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 2.152         | 2.193  | 2.133  |
| WE26    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 1.501         | 1.552  | 1.497  |
| WE27    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 1.946         | 1.991  | 1.933  |
| WE28    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 1.837         | 1.875  | 1.813  |
| WE29    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 2.288         | 2.321  | 2.258  |
| WE30    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 2.114         | 2.162  | 2.105  |
| WE31    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 2.962         | 3.033  | 3.009  |
| WE32    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 3.034         | 3.103  | 3.075  |
| WE33    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 2.272         | 2.341  | 2.309  |
| WE34    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 1.646         | 1.705  | 1.658  |
| WE35    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 1.983         | 2.018  | 1.956  |
| WE36    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 1.538         | 1.580  | 1.520  |
| WE37    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 2.291         | 2.351  | 2.305  |
| WE38    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 1.615         | 1.652  | 1.590  |
| WE39    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 61,5          | 3.597         | 3.659  | 3.615  |
| WE40    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 1.958         | 2.008  | 1.953  |
| WE41    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 2.844         | 2.915  | 2.904  |
| WE42    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 3.373         | 3.441  | 3.406  |
| WE43    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 2.821         | 2.893  | 2.875  |
| WE44    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 2.812         | 2.883  | 2.870  |
| WE45    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 2.617         | 2.689  | 2.675  |
| WE46    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 1.991         | 2.032  | 1.971  |
| WE47    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 2.858         | 2.929  | 2.908  |
| WE48    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 3.484         | 3.553  | 3.525  |
| WE49    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 3.222         | 3.292  | 3.265  |
| WE50    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 3.396         | 3.465  | 3.433  |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900       | 52,0               | 73,8          | 3.083         | 3.153  | 3.128  |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600     | 116,8              | 140,6         | 1.814         | 1.880  | 1.841  |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 4.374         | 4.344  | 4.294  |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 3.971         | 3.938  | 3.889  |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000     | 160,0              | 165,0         | 4.567         | 4.538  | 4.487  |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 5.188         | 5.137  | 5.105  |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 4.750         | 4.697  | 4.667  |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 4.888         | 4.839  | 4.804  |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 4.516         | 4.467  | 4.432  |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 4.675         | 4.630  | 4.591  |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600     | 150,0              | 169,0         | 4.647         | 4.607  | 4.564  |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 4.759         | 4.725  | 4.677  |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 5.018         | 4.989  | 4.938  |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 5.110         | 5.055  | 5.027  |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500     | 70,5               | 64,7          | 12.497        | 12.432 | 12.420 |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 4.441         | 4.386  | 4.358  |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 14.378        | 14.315 | 14.300 |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 3.494         | 3.462  | 3.413  |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 14.620        | 14.556 | 14.542 |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 12.697        | 12.632 | 12.620 |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600     | 162,0              | 169,0         | 3.837         | 3.808  | 3.757  |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 12.960        | 12.896 | 12.883 |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 13.165        | 13.100 | 13.088 |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 4.106         | 4.079  | 4.026  |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 13.367        | 13.303 | 13.290 |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 3.884         | 3.843  | 3.800  |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 13.572        | 13.507 | 13.495 |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 13.776        | 13.711 | 13.699 |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 4.450         | 4.426  | 4.372  |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500     | 158,0              | 161,0         | 4.290         | 4.252  | 4.207  |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 13.824        | 13.760 | 13.746 |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 13.622        | 13.558 | 13.544 |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000     | 162,0              | 169,0         | 4.186         | 4.137  | 4.102  |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500     | 70,5               | 64,7          | 12.297        | 12.233 | 12.221 |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700     | 149,0              | 125,4         | 14.350        | 14.286 | 14.272 |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600       | 46,0               | 60,0          | 14.153        | 14.090 | 14.075 |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP15/16, Greven, Park/Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      |              |                      |           |               |               | Abstand zur Kamera |        |        |
|---------|-------------|------|--------------|----------------------|-----------|---------------|---------------|--------------------|--------|--------|
| Aktuell | Hersteller  | Typ  | Nennleistung | Rotor-durchmesser    | Nabenhöhe | FP15/16.01 Ka | FP15/16.02 Ka | FP15/16.03 Ka      |        |        |
|         |             |      | [kW]         | [m]                  | [m]       | [m]           | [m]           | [m]                |        |        |
| WKA 21  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750     | 66,0          | 67,0          | 12.804             | 12.745 | 12.723 |
| WKA 22  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750     | 66,0          | 67,0          | 12.600             | 12.540 | 12.519 |
| WKA 23  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750     | 66,0          | 67,0          | 12.208             | 12.147 | 12.127 |
| WKA 24  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750     | 66,0          | 67,0          | 11.979             | 11.919 | 11.898 |
| WKA 25  | Existierend | Nein | VESTAS       | V66-1.750            | 1.750     | 66,0          | 67,0          | 11.690             | 11.629 | 11.609 |
| WKA 26  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.454             | 12.390 | 12.377 |
| WKA 27  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.463             | 12.399 | 12.385 |
| WKA 28  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.162             | 12.098 | 12.085 |
| WKA 29  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.486             | 12.423 | 12.407 |
| WKA 3   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0          | 60,0          | 13.394             | 13.330 | 13.316 |
| WKA 30  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.597             | 12.535 | 12.517 |
| WKA 31  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 11.610             | 11.547 | 11.532 |
| WKA 32  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 11.887             | 11.825 | 11.808 |
| WKA 33  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.190             | 12.127 | 12.111 |
| WKA 34  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 11.476             | 11.415 | 11.397 |
| WKA 35  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 11.440             | 11.380 | 11.360 |
| WKA 36  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 11.749             | 11.688 | 11.669 |
| WKA 37  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.024             | 11.963 | 11.944 |
| WKA 38  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.476             | 12.415 | 12.396 |
| WKA 39  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.871             | 12.809 | 12.791 |
| WKA 4   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0          | 60,0          | 13.181             | 13.117 | 13.103 |
| WKA 40  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 13.044             | 12.983 | 12.963 |
| WKA 41  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.878             | 12.815 | 12.799 |
| WKA 42  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.769             | 12.706 | 12.691 |
| WKA 43  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 12.747             | 12.683 | 12.670 |
| WKA 44  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 13.149             | 13.086 | 13.070 |
| WKA 46  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300     | 131,0         | 164,0         | 12.248             | 12.187 | 12.169 |
| WKA 47  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300     | 131,0         | 164,0         | 12.731             | 12.670 | 12.651 |
| WKA 48  | Existierend | Ja   | NORDEX       | N131/3300 DE-3.300   | 3.300     | 131,0         | 164,0         | 13.060             | 12.999 | 12.980 |
| WKA 49  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0          | 113,5         | 13.261             | 13.197 | 13.183 |
| WKA 5   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0          | 60,0          | 12.968             | 12.905 | 12.890 |
| WKA 50  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0          | 113,5         | 13.475             | 13.411 | 13.398 |
| WKA 51  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0          | 113,5         | 13.690             | 13.626 | 13.613 |
| WKA 52  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0          | 113,5         | 13.952             | 13.887 | 13.874 |
| WKA 53  | Existierend | Ja   | eno          | eno 82 2.05-2.050    | 2.050     | 82,4          | 108,0         | 14.530             | 14.467 | 14.451 |
| WKA 54  | Existierend | Nein | NEG MICON    | NM72C/1500-1.500/400 | 1.500     | 72,0          | 80,0          | 13.317             | 13.256 | 13.237 |
| WKA 55  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200     | 92,8          | 103,0         | 13.399             | 13.338 | 13.320 |
| WKA 56  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200     | 92,8          | 103,0         | 13.651             | 13.589 | 13.572 |
| WKA 57  | Existierend | Ja   | eno          | eno 92 2.2-2.200     | 2.200     | 92,8          | 103,0         | 13.901             | 13.839 | 13.822 |
| WKA 58  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0          | 113,5         | 12.886             | 12.821 | 12.810 |
| WKA 59  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 113,5         | 13.172             | 13.107 | 13.096 |
| WKA 6   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0          | 60,0          | 13.144             | 13.082 | 13.065 |
| WKA 60  | Existierend | Nein | ENERCON      | E-70 E4-2.000        | 2.000     | 71,0          | 85,0          | 11.946             | 11.883 | 11.868 |
| WKA 61  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0          | 113,5         | 12.695             | 12.630 | 12.619 |
| WKA 62  | Existierend | Ja   | ENERCON      | E-70 E4 2,3 MW-2.300 | 2.300     | 71,0          | 113,5         | 12.480             | 12.415 | 12.404 |
| WKA 7   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0          | 60,0          | 13.362             | 13.299 | 13.283 |
| WKA 8   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0          | 60,0          | 13.590             | 13.528 | 13.512 |
| WKA 9   | Existierend | Nein | TACKE        | TW 600e-600/200      | 600       | 46,0          | 60,0          | 13.797             | 13.734 | 13.718 |





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 16:02:10  
 Gesichtsfeld: 67,3°x53,1° Brennweite: 26 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 697.510 Nord: 5.930.220  
 Windrichtung: 0° Richtung des Fotos: 341°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP15/16.01 Ka FP15/16.01, Greven, Park/Gutshaus, von Am Wirtschaftshof

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 17 cm**

Fotoaufnahme: 02.09.2021 11:11:20  
Gesichtsfeld: 60,0°x46,8° Brennweite: 30 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 697.439 Nord: 5.930.220  
Windrichtung: 0° Richtung des Fotos: 0°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP15/16.02 Ka FP15/16.02, Greven, Park/Gutshaus, Einfahrt, von Am Wirtschaftshof

Erzeugt von:  
enosite GmbH  
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Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 17 cm**

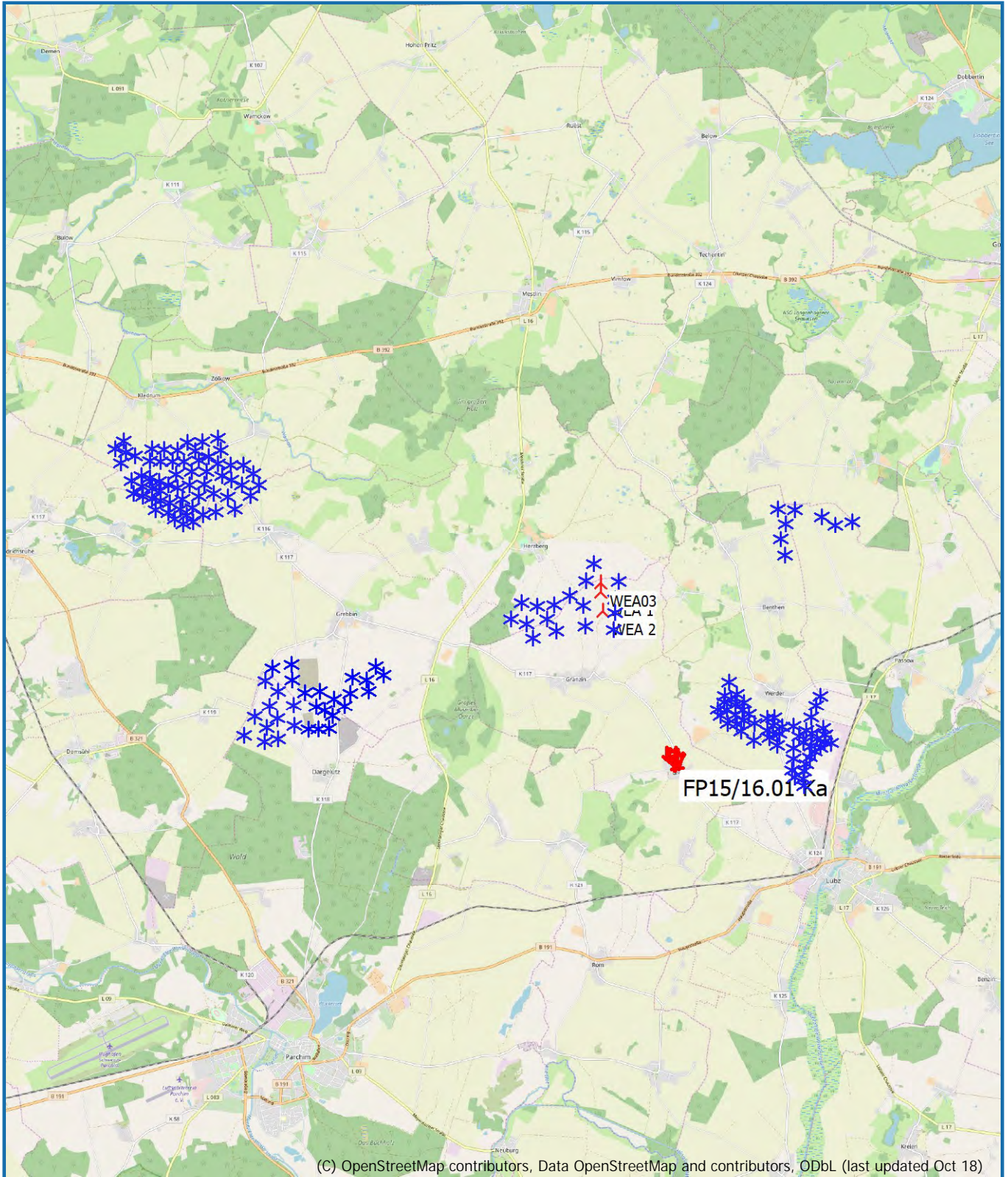
Fotoaufnahme: 02.09.2021 11:12:21  
 Gesichtsfeld: 60,0°x46,8° Brennweite: 30 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 697.455 Nord: 5.930.283  
 Windrichtung: 0° Richtung des Fotos: 336°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP15/16.03 Ka FP15/16.03, Greven, Park/Gutshaus, von Terasse

Erzeugt von:  
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## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP15/16, Greven, Park/Gutshaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

0 2,5 5 7,5 10km

Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

Neue WEA \* Existierende WEA Kamera

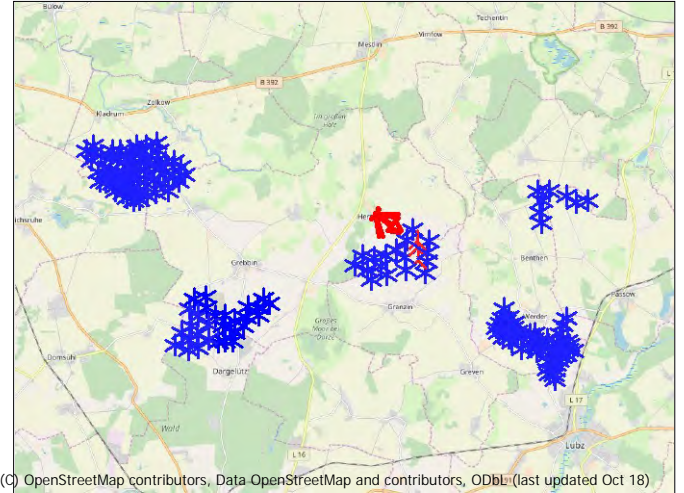


Projekt: 0108-Granzin Beschreibung: Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender: enosite GmbH  
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 Raimund Wörl / raimund.woerl@eno-site.com  
 Berechnet: 25.08.2022 11:14/3.5.584

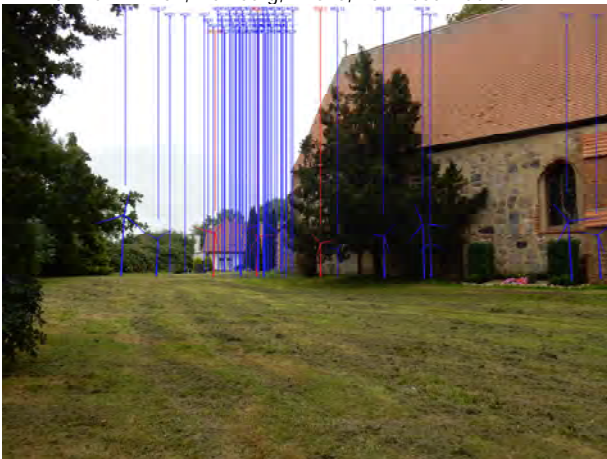
## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP17, Herzberg, Kirche; 2022-08-24



Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP17.01 Ka FP17.01, Herzberg, Kirche, von Rasenfläche



UTM (north)-ETRS89 Zone: 32    Ost    Nord    Z    Wolken    -Schwer bedeckt mit Wolken (6/8)    Foto-Datei im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt    694.160    5.935.240    66.5    Sichtbarkeit:    Normal    DSCN6415.JPG  
 Zielpunkt    694.244    5.935.160    78.7    Sonne    -Normal    Gesichtsfeld: 69.4°x54.9°    Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung    136°    Windricht:    0°    Foto-Beschreibung: FP17.01 Ka FP17.01, Herzberg, Kirche, von Rasenfläche

FP17.02 Ka FP17.02, Herzberg, Kirche, von Friedhof



UTM (north)-ETRS89 Zone: 32    Ost    Nord    Z    Wolken    -Schwer bedeckt mit Wolken (6/8)    Foto-Datei im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt    694.159    5.935.205    66.5    Sichtbarkeit:    Normal    DSCN6423.JPG  
 Zielpunkt    694.284    5.935.124    71.4    Sonne    -Normal    Gesichtsfeld: 69.4°x54.9°    Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung    125°    Windricht:    0°    Foto-Beschreibung: FP17.02 Ka FP17.02, Herzberg, Kirche, von Friedhof

FP17.02 Ka(r) FP17.02, Herzberg, Kirche, von Friedhof (fotorealistisch)



UTM (north)-ETRS89 Zone: 32    Ost    Nord    Z    Wolken    -Schwer bedeckt mit Wolken (6/8)    Foto-Datei im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt    694.159    5.935.205    66.5    Sichtbarkeit:    Normal    DSCN6423.JPG  
 Zielpunkt    694.284    5.935.124    71.4    Sonne    -Normal    Gesichtsfeld: 69.4°x54.9°    Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung    125°    Windricht:    0°    Foto-Beschreibung: FP17.02 Ka(r) FP17.02, Herzberg, Kirche, von Friedhof (fotorealistisch)

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP17, Herzberg, Kirche; 2022-08-24

### WEA-Platzierung

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |               |
|------|-------------|------|------------|----------------------|--------------|-------------------|-----------|--------------------|------------|---------------|
|      | Aktuell     |      |            |                      |              |                   |           | FP17.01 Ka         | FP17.02 Ka | FP17.02 Ka(r) |
|      |             |      |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]           |
| B01  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 6.663              | 6.646      | 6.646         |
| B02  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 6.252              | 6.234      | 6.234         |
| B03  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 6.393              | 6.374      | 6.374         |
| B04  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 5.210              | 5.188      | 5.188         |
| B05  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 4.992              | 4.969      | 4.969         |
| B06  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 6.298              | 6.277      | 6.277         |
| B07  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 5.119              | 5.095      | 5.095         |
| B08  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 5.482              | 5.458      | 5.458         |
| B09  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 6.001              | 5.979      | 5.979         |
| B10  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 5.849              | 5.826      | 5.826         |
| B11  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 5.746              | 5.722      | 5.722         |
| B12  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 4.657              | 4.634      | 4.634         |
| B13  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 4.632              | 4.608      | 4.608         |
| B14  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 6.793              | 6.774      | 6.774         |
| B15  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 6.661              | 6.639      | 6.639         |
| B16  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.133              | 7.113      | 7.113         |
| B17  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.136              | 7.115      | 7.115         |
| B18  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 6.921              | 6.898      | 6.898         |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.543              | 7.523      | 7.523         |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.463              | 7.441      | 7.441         |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.391              | 7.368      | 7.368         |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.966              | 7.945      | 7.945         |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.682              | 7.659      | 7.659         |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 6.927              | 6.909      | 6.909         |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 6.717              | 6.693      | 6.693         |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 6.542              | 6.517      | 6.517         |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 6.351              | 6.326      | 6.326         |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 6.103              | 6.079      | 6.079         |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 6.160              | 6.137      | 6.137         |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 6.275              | 6.253      | 6.253         |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 5.419              | 5.426      | 5.426         |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 5.552              | 5.557      | 5.557         |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 5.427              | 5.429      | 5.429         |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 5.523              | 5.524      | 5.524         |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 5.787              | 5.794      | 5.794         |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 6.381              | 6.386      | 6.386         |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 6.668              | 6.672      | 6.672         |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 7.042              | 7.046      | 7.046         |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.697              | 6.678      | 6.678         |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.884              | 6.864      | 6.864         |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 7.549              | 7.528      | 7.528         |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 5.891              | 5.870      | 5.870         |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 7.682              | 7.660      | 7.660         |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 7.508              | 7.490      | 7.490         |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 7.365              | 7.347      | 7.347         |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.815              | 6.795      | 6.795         |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.939              | 6.919      | 6.919         |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 7.068              | 7.050      | 7.050         |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 7.312              | 7.293      | 7.293         |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 7.478              | 7.459      | 7.459         |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 7.391              | 7.371      | 7.371         |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 6.063              | 6.041      | 6.041         |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 6.116              | 6.096      | 6.096         |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 6.356              | 6.335      | 6.335         |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 7.293              | 7.276      | 7.276         |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 7.236              | 7.220      | 7.220         |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 7.858              | 7.840      | 7.840         |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 7.670              | 7.652      | 7.652         |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 60,0      | 6.674              | 6.654      | 6.654         |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 6.126              | 6.105      | 6.105         |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 6.617              | 6.598      | 6.598         |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 5.674              | 5.652      | 5.652         |

(Fortsetzung nächste Seite)...



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP17, Herzberg, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      | Hersteller     | Typ                     | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |               |
|---------|-------------|------|----------------|-------------------------|--------------|-------------------|-----------|--------------------|------------|---------------|
| Aktuell | Neu         | Nein |                |                         |              |                   |           | FP17.01 Ka         | FP17.02 Ka | FP17.02 Ka(r) |
|         |             |      |                |                         | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]           |
| WE25    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.607              | 5.587      | 5.587         |
| WE26    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.904              | 5.881      | 5.881         |
| WE27    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.745              | 5.725      | 5.725         |
| WE28    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.506              | 5.485      | 5.485         |
| WE29    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.310              | 5.291      | 5.291         |
| WE30    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.862              | 5.842      | 5.842         |
| WE31    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 7.797              | 7.778      | 7.778         |
| WE32    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 7.665              | 7.646      | 7.646         |
| WE33    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 7.053              | 7.032      | 7.032         |
| WE34    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 6.238              | 6.216      | 6.216         |
| WE35    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.427              | 5.407      | 5.407         |
| WE36    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.664              | 5.642      | 5.642         |
| WE37    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 6.491              | 6.472      | 6.472         |
| WE38    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.516              | 5.494      | 5.494         |
| WE39    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 7.223              | 7.208      | 7.208         |
| WE40    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 5.942              | 5.921      | 5.921         |
| WE41    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 8.113              | 8.091      | 8.091         |
| WE42    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.650              | 7.633      | 7.633         |
| WE43    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.894              | 7.873      | 7.873         |
| WE44    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.995              | 7.973      | 7.973         |
| WE45    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.833              | 7.811      | 7.811         |
| WE46    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 5.587              | 5.567      | 5.567         |
| WE47    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.811              | 7.791      | 7.791         |
| WE48    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.995              | 7.977      | 7.977         |
| WE49    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.848              | 7.829      | 7.829         |
| WE50    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.782              | 7.764      | 7.764         |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.807              | 7.788      | 7.788         |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600        | 116,8             | 140,6     | 6.592              | 6.570      | 6.570         |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 1.799              | 1.779      | 1.779         |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 2.122              | 2.098      | 2.098         |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000        | 160,0             | 165,0     | 1.672              | 1.655      | 1.655         |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 1.444              | 1.409      | 1.409         |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 1.889              | 1.854      | 1.854         |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 1.454              | 1.419      | 1.419         |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 1.763              | 1.728      | 1.728         |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 1.456              | 1.423      | 1.423         |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600        | 150,0             | 169,0     | 1.390              | 1.361      | 1.361         |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 1.363              | 1.343      | 1.343         |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 1.319              | 1.308      | 1.308         |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 1.858              | 1.825      | 1.825         |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 7.976              | 7.977      | 7.977         |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 2.180              | 2.145      | 2.145         |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 9.540              | 9.545      | 9.545         |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 2.592              | 2.567      | 2.567         |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 9.783              | 9.788      | 9.788         |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 8.137              | 8.138      | 8.138         |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 2.330              | 2.308      | 2.308         |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 8.373              | 8.374      | 8.374         |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 8.582              | 8.584      | 8.584         |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 2.146              | 2.127      | 2.127         |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 8.789              | 8.791      | 8.791         |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 2.157              | 2.127      | 2.127         |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 8.999              | 9.000      | 9.000         |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 9.207              | 9.209      | 9.209         |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 2.003              | 1.989      | 1.989         |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 1.748              | 1.720      | 1.720         |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 9.103              | 9.106      | 9.106         |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 8.900              | 8.903      | 8.903         |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000        | 162,0             | 169,0     | 2.051              | 2.017      | 2.017         |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 7.819              | 7.818      | 7.818         |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700        | 149,0             | 125,4     | 9.590              | 9.594      | 9.594         |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 9.313              | 9.318      | 9.318         |

(Fortsetzung nächste Seite)...

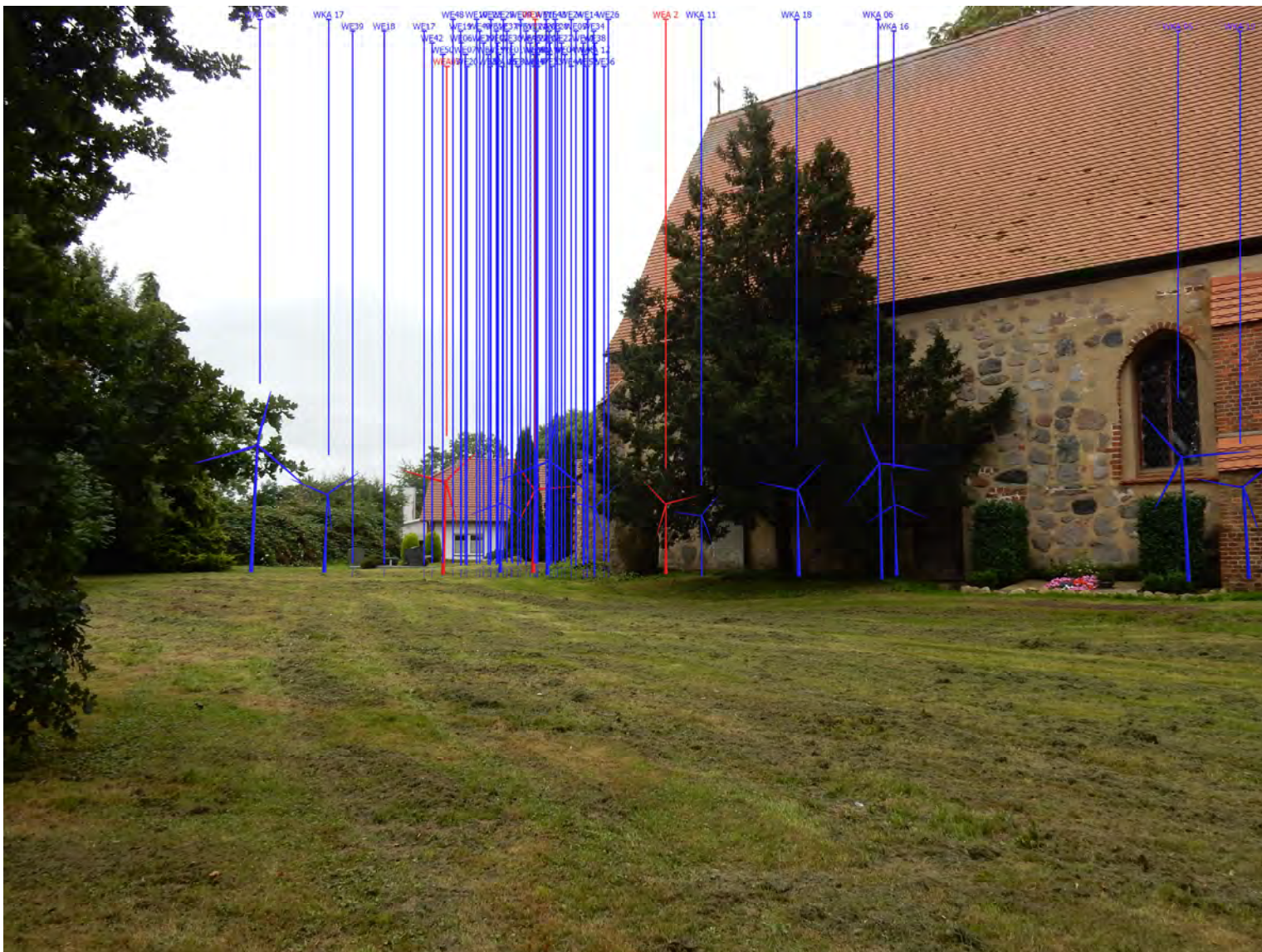
## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP17, Herzberg, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WKA    | Existierend | WEA-Typ |            | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |               |
|--------|-------------|---------|------------|----------------------|--------------|-------------------|-----------|--------------------|------------|---------------|
|        |             | Aktuell | Hersteller |                      |              |                   |           | FP17.01 Ka         | FP17.02 Ka | FP17.02 Ka(r) |
|        |             |         |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]           |
| WKA 21 | Existierend | Nein    | VESTAS     | V66-1.750            | 1.750        | 66,0              | 67,0      | 7.612              | 7.621      | 7.621         |
| WKA 22 | Existierend | Nein    | VESTAS     | V66-1.750            | 1.750        | 66,0              | 67,0      | 7.480              | 7.487      | 7.487         |
| WKA 23 | Existierend | Nein    | VESTAS     | V66-1.750            | 1.750        | 66,0              | 67,0      | 7.161              | 7.168      | 7.168         |
| WKA 24 | Existierend | Nein    | VESTAS     | V66-1.750            | 1.750        | 66,0              | 67,0      | 6.890              | 6.896      | 6.896         |
| WKA 25 | Existierend | Nein    | VESTAS     | V66-1.750            | 1.750        | 66,0              | 67,0      | 6.629              | 6.635      | 6.635         |
| WKA 26 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.853              | 7.854      | 7.854         |
| WKA 27 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.749              | 7.751      | 7.751         |
| WKA 28 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.598              | 7.598      | 7.598         |
| WKA 29 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.662              | 7.665      | 7.665         |
| WKA 3  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 8.670              | 8.674      | 8.674         |
| WKA 30 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.669              | 7.674      | 7.674         |
| WKA 31 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 6.901              | 6.903      | 6.903         |
| WKA 32 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.098              | 7.101      | 7.101         |
| WKA 33 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.413              | 7.416      | 7.416         |
| WKA 34 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 6.603              | 6.606      | 6.606         |
| WKA 35 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 6.449              | 6.454      | 6.454         |
| WKA 36 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 6.814              | 6.818      | 6.818         |
| WKA 37 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.087              | 7.092      | 7.092         |
| WKA 38 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.453              | 7.459      | 7.459         |
| WKA 39 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.887              | 7.892      | 7.892         |
| WKA 4  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 8.458              | 8.461      | 8.461         |
| WKA 40 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.922              | 7.930      | 7.930         |
| WKA 41 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.995              | 8.000      | 8.000         |
| WKA 42 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.990              | 7.994      | 7.994         |
| WKA 43 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.098              | 8.100      | 8.100         |
| WKA 44 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.330              | 8.334      | 8.334         |
| WKA 46 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300        | 131,0             | 164,0     | 7.306              | 7.311      | 7.311         |
| WKA 47 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300        | 131,0             | 164,0     | 7.691              | 7.698      | 7.698         |
| WKA 48 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300        | 131,0             | 164,0     | 8.021              | 8.028      | 8.028         |
| WKA 49 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 8.603              | 8.606      | 8.606         |
| WKA 5  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 8.246              | 8.249      | 8.249         |
| WKA 50 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 8.822              | 8.825      | 8.825         |
| WKA 51 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.042              | 9.045      | 9.045         |
| WKA 52 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.290              | 9.292      | 9.292         |
| WKA 53 | Existierend | Ja      | eno        | eno 82 2.05-2.050    | 2.050        | 82,4              | 108,0     | 9.624              | 9.630      | 9.630         |
| WKA 54 | Existierend | Nein    | NEG MICON  | NM72C/1500-1.500/400 | 1.500        | 72,0              | 80,0      | 8.245              | 8.252      | 8.252         |
| WKA 55 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 8.407              | 8.413      | 8.413         |
| WKA 56 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 8.694              | 8.700      | 8.700         |
| WKA 57 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 8.970              | 8.976      | 8.976         |
| WKA 58 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 8.387              | 8.387      | 8.387         |
| WKA 59 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 113,5     | 8.674              | 8.675      | 8.675         |
| WKA 6  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 8.209              | 8.214      | 8.214         |
| WKA 60 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.320              | 7.321      | 7.321         |
| WKA 61 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 8.237              | 8.237      | 8.237         |
| WKA 62 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 8.041              | 8.041      | 8.041         |
| WKA 7  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 8.460              | 8.465      | 8.465         |
| WKA 8  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 8.723              | 8.728      | 8.728         |
| WKA 9  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 8.952              | 8.957      | 8.957         |





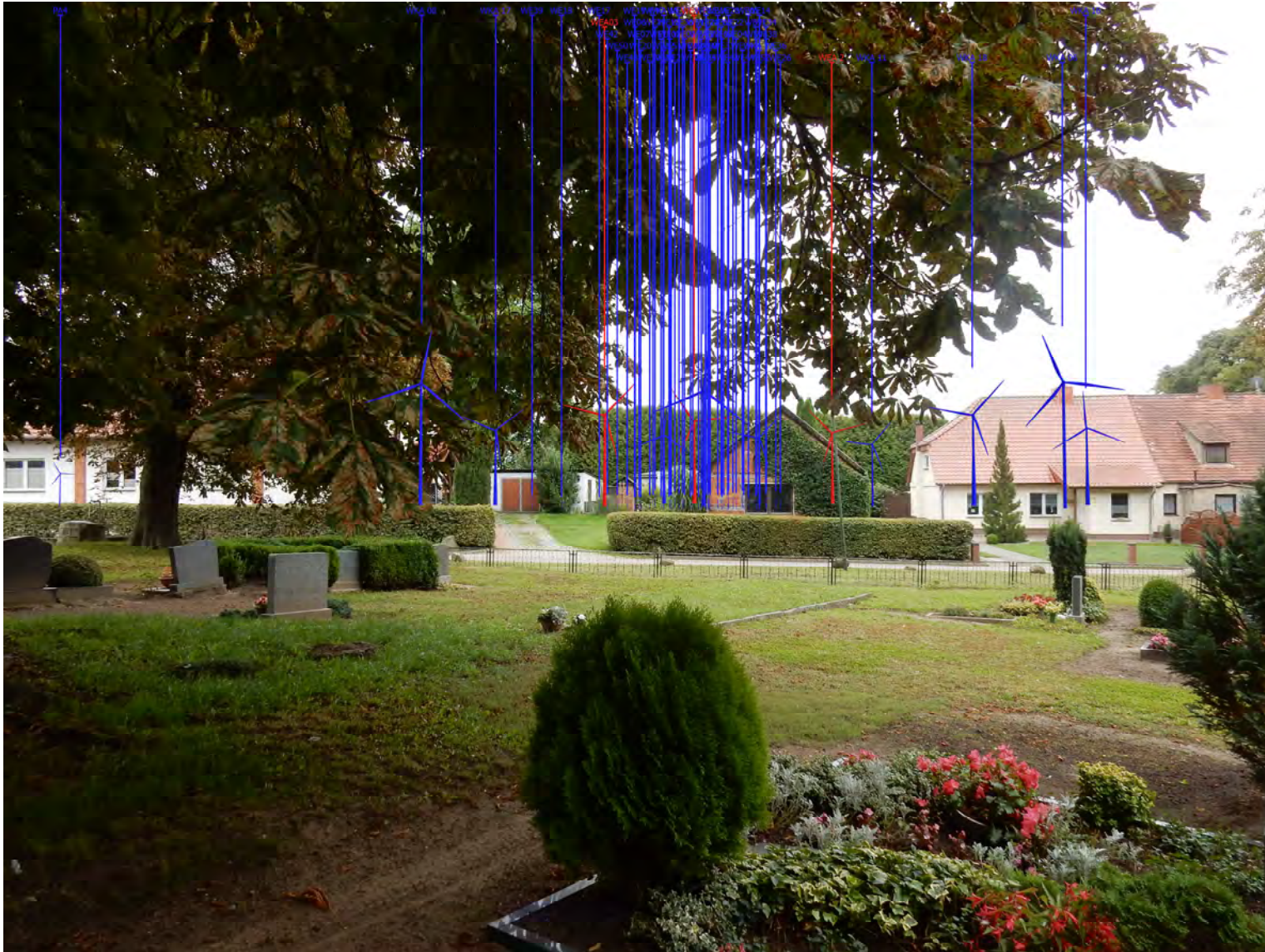
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

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 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 694.160 Nord: 5.935.240  
 Windrichtung: 0° Richtung des Fotos: 136°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP17.01 Ka FP17.01, Herzberg, Kirche, von Rasenfläche

Erzeugt von:  
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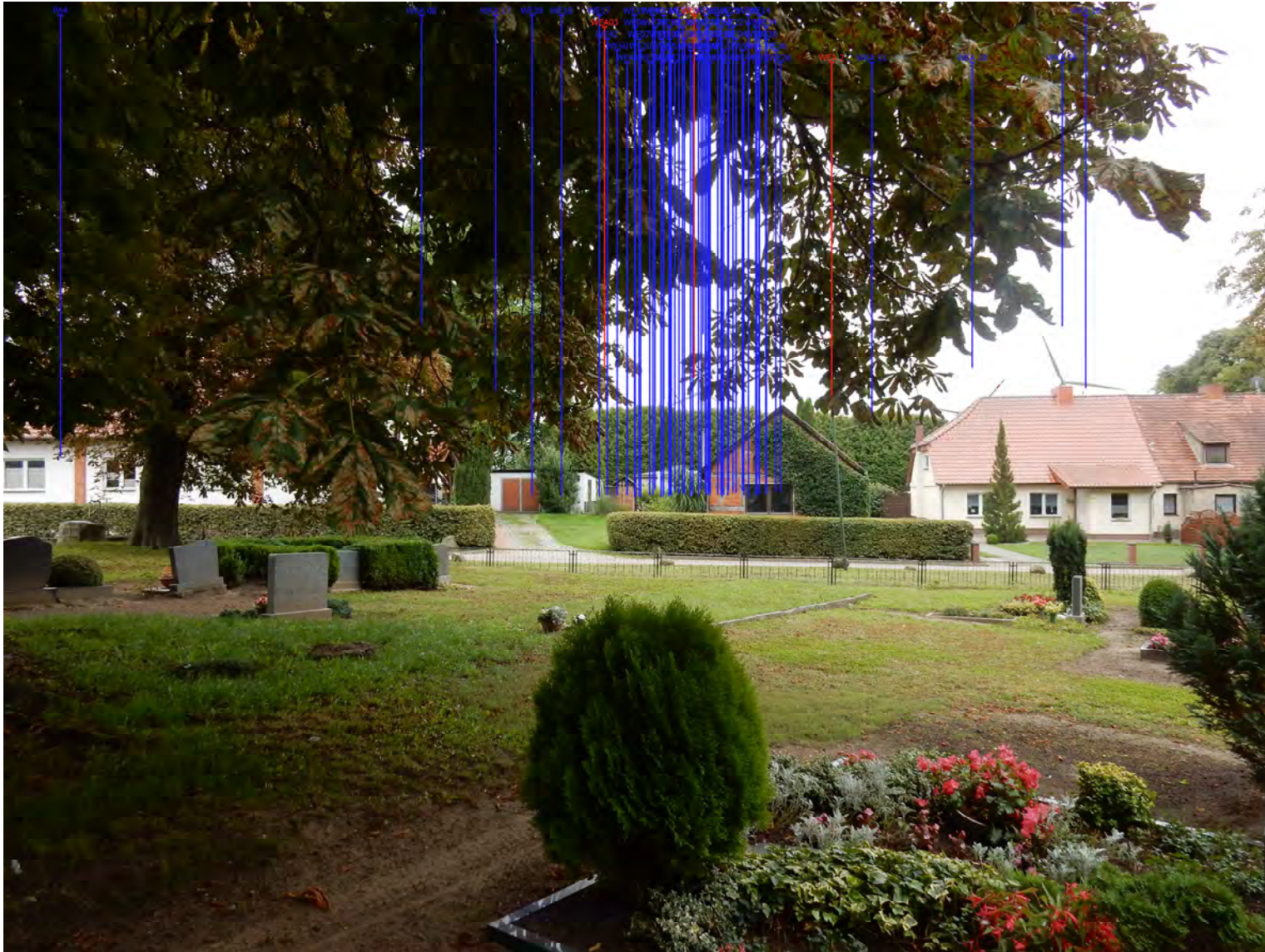
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

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 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 694.159 Nord: 5.935.205  
 Windrichtung: 0° Richtung des Fotos: 125°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP17.02 Ka FP17.02, Herzberg, Kirche, von Friedhof

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 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 02.09.2021 15:00:16  
Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 694.159 Nord: 5.935.205  
Windrichtung: 0° Richtung des Fotos: 125°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP17.02 Ka(r) FP17.02, Herzberg, Kirche, von Friedhof (fotorealistisch)

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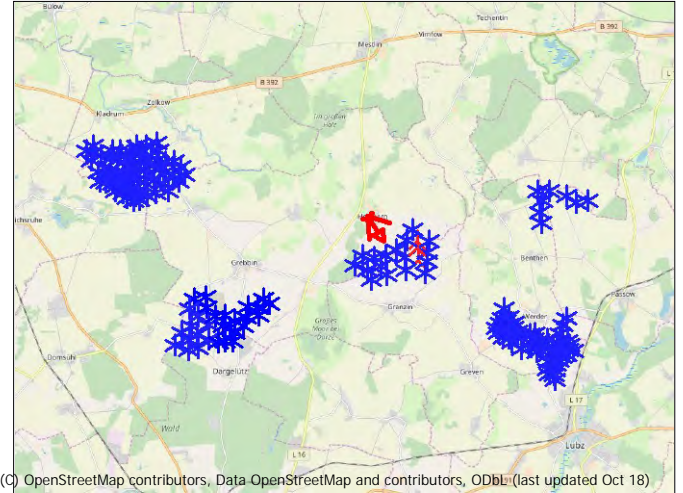






## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung: FP18/19, Herzberg, Park/Gutshaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

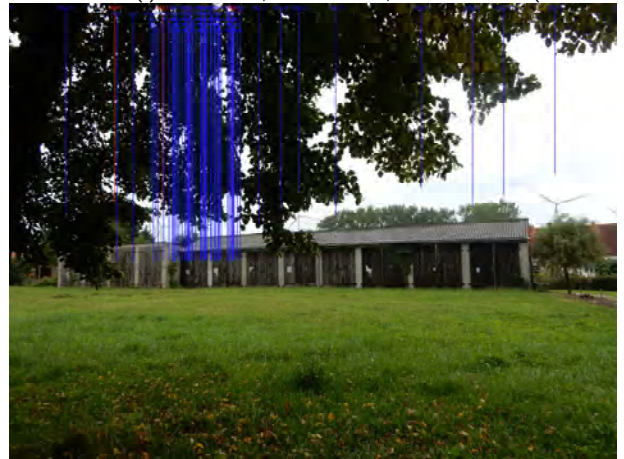
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 ▲ Neue WEA    ★ Existierende WEA    ↗ Kamera

FP18/19.01 Ka FP18/19.01, Park/Gutshof, von Parkstraße



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken Schwer bedeckt mit Wolken (6/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt: 693.881 5.935.126 44,0 Sichtbarkei: Normal DSCN4653.JPG  
 Zielpunkt: 693.956 5.935.041 73,3 Sonne Normal Geschichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung: 141° Windricht.: 0° Foto-Beschreibung: FP18/19.01 Ka FP18/19.01, Park/Gutshof, von Parkstraße

FP18/19.01 Ka(r) FP18/19.01, Park/Gutshof, von Parkstraße (fotorealistisch)



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken Schwer bedeckt mit Wolken (6/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt: 693.881 5.935.126 44,0 Sichtbarkei: Normal DSCN4653.JPG  
 Zielpunkt: 693.956 5.935.041 73,3 Sonne Normal Geschichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung: 141° Windricht.: 0° Foto-Beschreibung: FP18/19.01 Ka(r) FP18/19.01, Park/Gutshof, von Parkstraße (fotorealistisch)

### WEA-Platzierung

| ID  | Status      | Ja | WEA-Typ |               | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |
|-----|-------------|----|---------|---------------|-------------------|----------------------|---------------|--------------------|-------------------|
|     |             |    | Aktuell | Hersteller    |                   |                      |               | Typ                | FP18/19.01 Ka [m] |
| B01 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 6.363              | 6.363             |
| B02 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 5.952              | 5.952             |
| B03 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 6.096              | 6.096             |
| B04 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 4.921              | 4.921             |
| B05 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 4.708              | 4.708             |
| B06 | Existierend | Ja | ENERCON | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 6.004              | 6.004             |
| B07 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 4.840              | 4.840             |
| B08 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.197              | 5.197             |
| B09 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.709              | 5.709             |
| B10 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.562              | 5.562             |
| B11 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.464              | 5.464             |
| B12 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 4.370              | 4.370             |
| B13 | Existierend | Ja | ENERCON | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 4.352              | 4.352             |
| B14 | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.497              | 6.497             |
| B15 | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.368              | 6.368             |
| B16 | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.838              | 6.838             |
| B17 | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.845              | 6.845             |
| B18 | Existierend | Ja | ENERCON | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.633              | 6.633             |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP18/19, Herzberg, Park/Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                      |
|------|-------------|------|------------|----------------------|-------------------|----------------------|---------------|--------------------|----------------------|
|      | Aktuell     |      |            |                      |                   |                      |               | FP18/19.01 Ka [m]  | FP18/19.01 Ka(r) [m] |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.248              | 7.248                |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.171              | 7.171                |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.104              | 7.104                |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.673              | 7.673                |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.393              | 7.393                |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 6.628              | 6.628                |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.433              | 6.433                |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.260              | 6.260                |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.072              | 6.072                |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 5.822              | 5.822                |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 5.875              | 5.875                |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 5.987              | 5.987                |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 5.714              | 5.714                |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 5.842              | 5.842                |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 5.712              | 5.712                |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 5.802              | 5.802                |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 6.082              | 6.082                |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 6.673              | 6.673                |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 6.957              | 6.957                |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 7.331              | 7.331                |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 6.861              | 6.861                |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.051              | 7.051                |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.702              | 7.702                |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 6.041              | 6.041                |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.828              | 7.828                |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.685              | 7.685                |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.541              | 7.541                |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 6.969              | 6.969                |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.101              | 7.101                |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.241              | 7.241                |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.481              | 7.481                |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.645              | 7.645                |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.550              | 7.550                |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 6.206              | 6.206                |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 6.275              | 6.275                |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 6.510              | 6.510                |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.479              | 7.479                |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.431              | 7.431                |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 8.034              | 8.034                |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 7.845              | 7.845                |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 60,0          | 6.832              | 6.832                |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 6.277              | 6.277                |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 6.787              | 6.787                |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 5.822              | 5.822                |
| WE25 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 5.774              | 5.774                |
| WE26 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.042              | 6.042                |
| WE27 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 5.903              | 5.903                |
| WE28 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 5.658              | 5.658                |
| WE29 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 5.483              | 5.483                |
| WE30 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.027              | 6.027                |
| WE31 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.959              | 7.959                |
| WE32 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.834              | 7.834                |
| WE33 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.206              | 7.206                |
| WE34 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.379              | 6.379                |
| WE35 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 5.586              | 5.586                |
| WE36 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 5.803              | 5.803                |
| WE37 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.657              | 6.657                |
| WE38 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 5.658              | 5.658                |
| WE39 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.425              | 7.425                |
| WE40 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 6.099              | 6.099                |
| WE41 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 8.256              | 8.256                |
| WE42 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 7.834              | 7.834                |
| WE43 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 8.046              | 8.046                |

(Fortsetzung nächste Seite)...





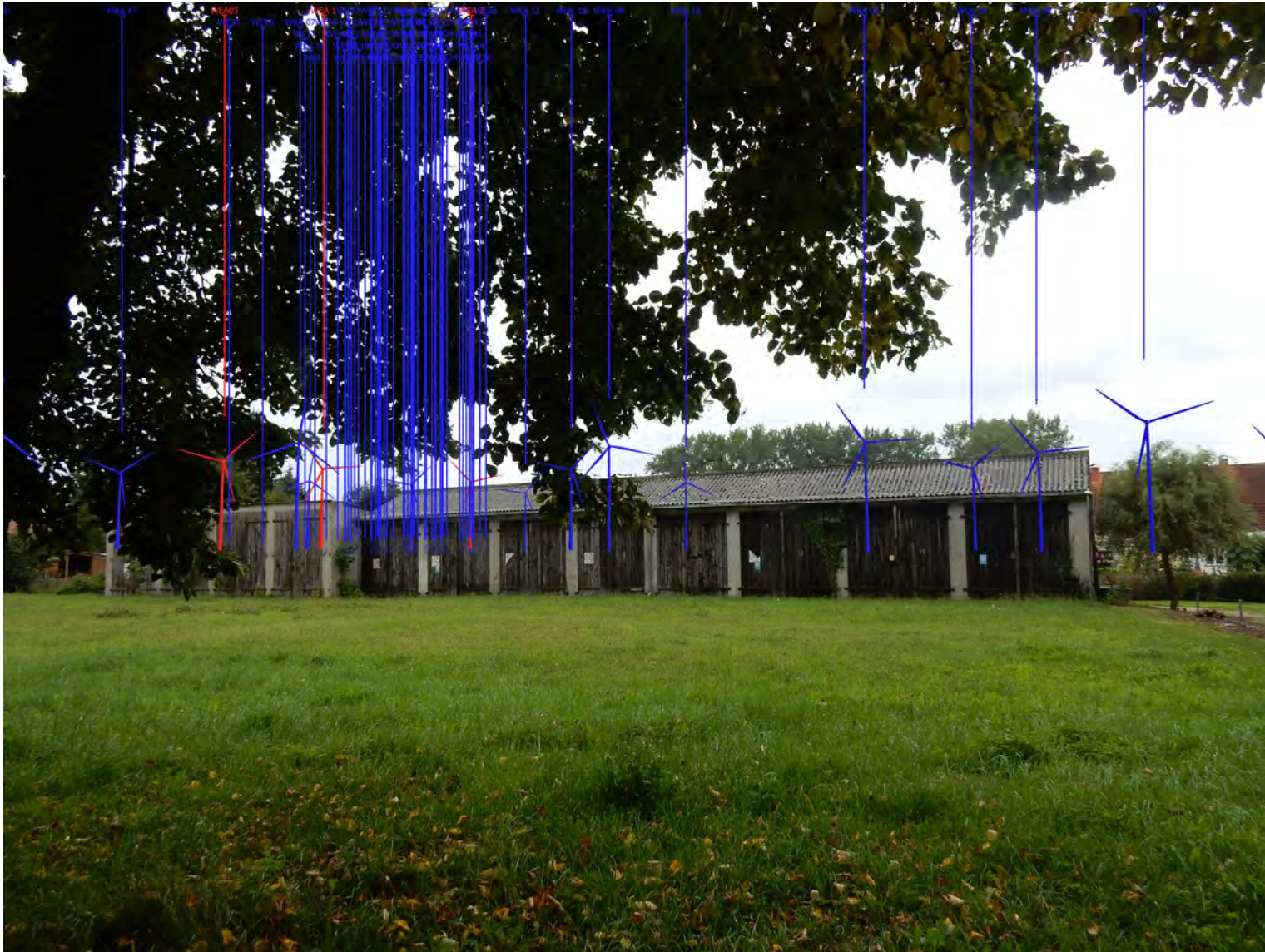
## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP18/19, Herzberg, Park/Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WKA    | Existierend | WEA-Typ |            | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                      |
|--------|-------------|---------|------------|----------------------|-------------------|----------------------|---------------|--------------------|----------------------|
|        |             | Aktuell | Hersteller |                      |                   |                      |               | FP18/19.01 Ka [m]  | FP18/19.01 Ka(r) [m] |
| WKA 4  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 8.194              | 8.194                |
| WKA 40 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.682              | 7.682                |
| WKA 41 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.739              | 7.739                |
| WKA 42 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.728              | 7.728                |
| WKA 43 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.830              | 7.830                |
| WKA 44 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 8.072              | 8.072                |
| WKA 46 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 7.051              | 7.051                |
| WKA 47 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 7.444              | 7.444                |
| WKA 48 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 7.775              | 7.775                |
| WKA 49 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 8.337              | 8.337                |
| WKA 5  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 7.982              | 7.982                |
| WKA 50 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 8.557              | 8.557                |
| WKA 51 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 8.777              | 8.777                |
| WKA 52 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 9.026              | 9.026                |
| WKA 53 | Existierend | Ja      | eno        | eno 82 2.05-2.050    | 2.050             | 82,4                 | 108,0         | 9.374              | 9.374                |
| WKA 54 | Existierend | Nein    | NEG MICON  | NM72C/1500-1.500/400 | 1.500             | 72,0                 | 80,0          | 8.002              | 8.002                |
| WKA 55 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 8.159              | 8.159                |
| WKA 56 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 8.445              | 8.445                |
| WKA 57 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 8.720              | 8.720                |
| WKA 58 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 8.113              | 8.113                |
| WKA 59 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 113,5         | 8.401              | 8.401                |
| WKA 6  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 7.956              | 7.956                |
| WKA 60 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.049              | 7.049                |
| WKA 61 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 7.962              | 7.962                |
| WKA 62 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 7.764              | 7.764                |
| WKA 7  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 8.206              | 8.206                |
| WKA 8  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 8.468              | 8.468                |
| WKA 9  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 8.697              | 8.697                |





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 02.09.2021 15:16:38  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 693.881 Nord: 5.935.126  
 Windrichtung: 0° Richtung des Fotos: 141°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP18/19.01 Ka FP18/19.01, Park/Gutshof, von Parkstraße

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

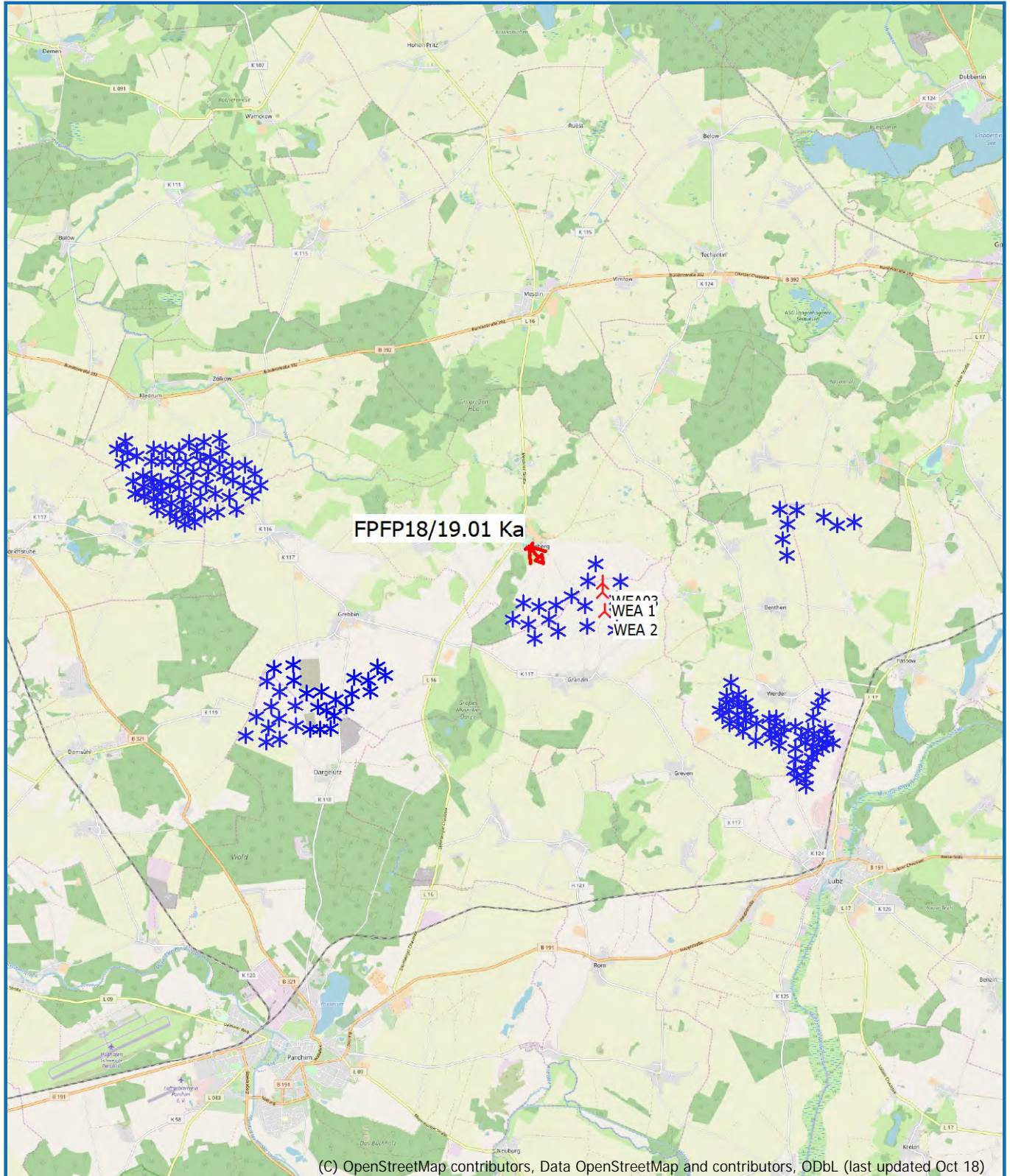
Fotoaufnahme: 02.09.2021 15:16:38  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 693.881 Nord: 5.935.126  
 Windrichtung: 0° Richtung des Fotos: 141°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP18/19.01 Ka(r) FP18/19.01, Park/Gutshof, von Parkstraße (fotorealistisch)

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP18/19, Herzberg, Park/Gutshaus; 2022-08-24



0 2,5 5 7,5 10km

Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

Neue WEA \* Existierende WEA Kamera



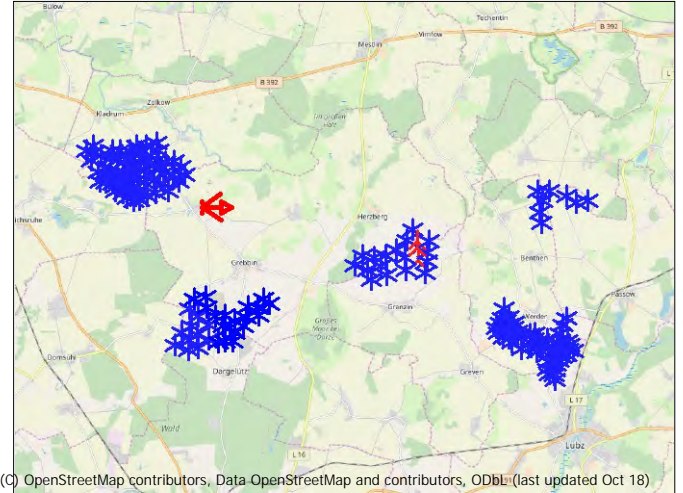
Projekt:  
0108-Granzin

Beschreibung:  
Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender:  
enosite GmbH  
Straße am Zeltplatz 7  
DE-18230 Ostseebad Rerik  
+49(0)38296 747 400  
Raimund Wörl / raimund.woerl@eno-site.com  
Berechnet:  
25.08.2022 11:14/3.5.584

## VISUAL - Hauptergebnis

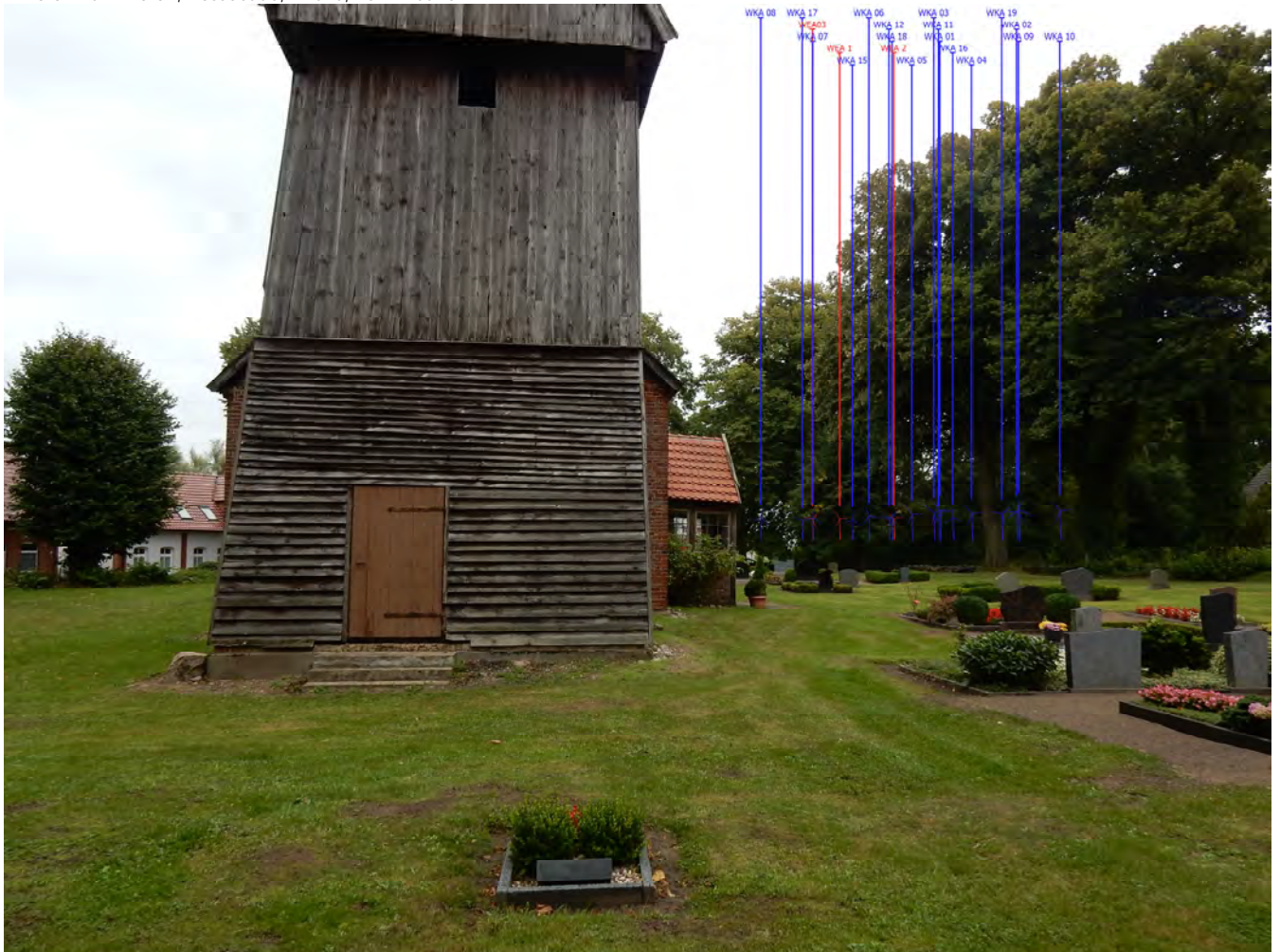
Berechnung: Granzin, Visualisierung; FP20, Kossebade, Kirche; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

Maßstab 1:250.000  
▲ Neue WEA      ★ Existierende WEA      ↖ Kamera

FP20.01 Ka FP20.01, Kossebade, Kirche, von Friedhof



|                             |         |           |      |              |                                  |  |
|-----------------------------|---------|-----------|------|--------------|----------------------------------|--|
| UTM (north)-ETRS89 Zone: 32 | Ost     | Nord      | Z    | Wolken       | :Schwer bedeckt mit Wolken (6/8) | Foto-Datei im Querformat: 4608 x 3456 Pixel                            |
| Kamerapunkt                 | 688.417 | 5.935.201 | 67,3 | Sichtbarkeit | :Normal                          | DSCN6381.JPG   |
| Zielpunkt                   | 688.624 | 5.935.216 | 81,1 | Sonne        | :Normal                          | Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm             |
| Foto-Richtung               | 88°     |           |      | Windricht.   | :0°                              | Fotobeschreibung.: FP20.01 Ka FP20.01, Kossebade, Kirche, von Friedhof |





## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP20, Kossebade, Kirche; 2022-08-24

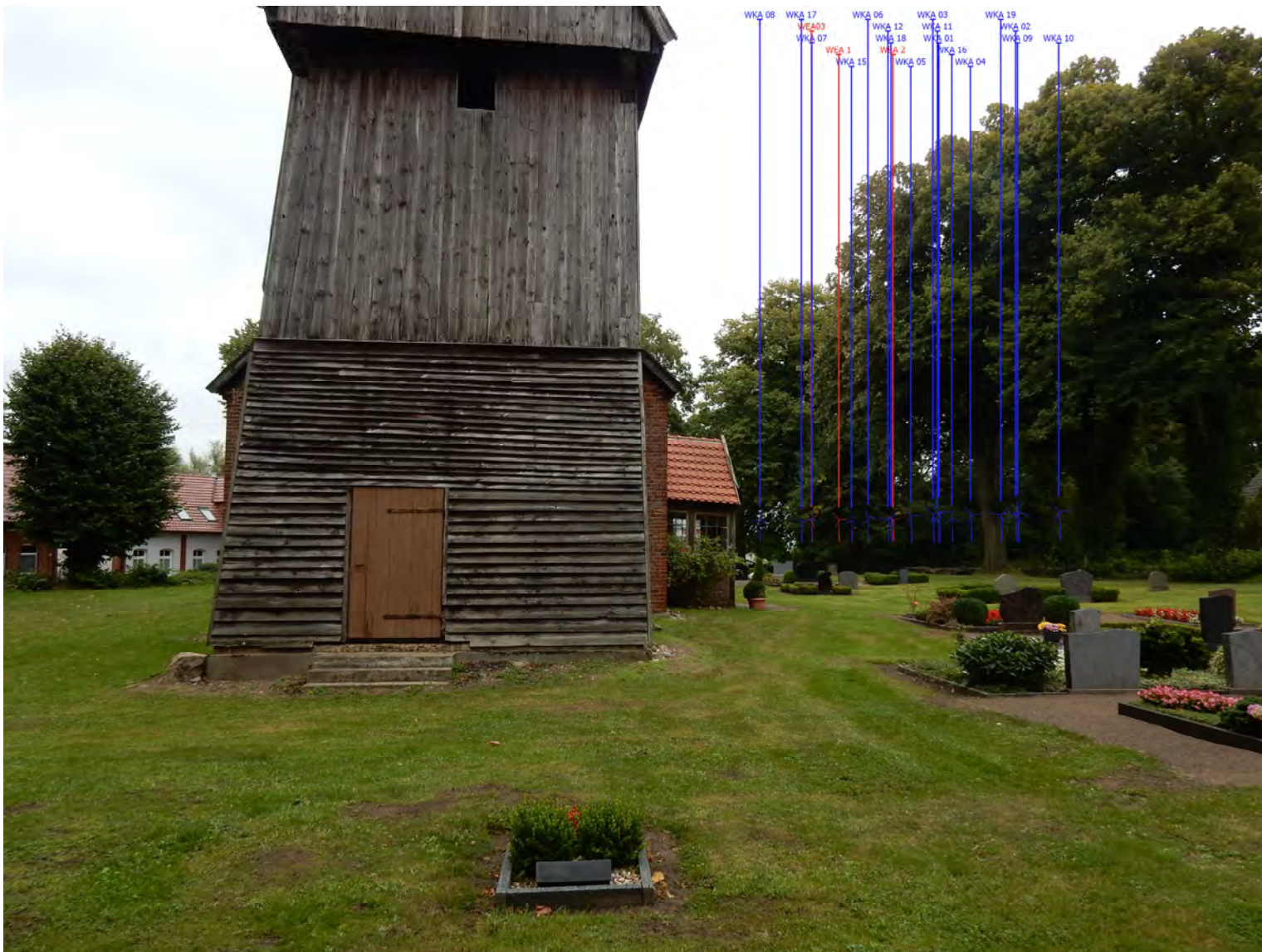
...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      |                |                         | Nennleistung | Rotordurchmesser | Nabenhöhe  | Abstand zur Kamera |  |
|---------|-------------|------|----------------|-------------------------|--------------|------------------|------------|--------------------|--|
| Aktuell | Hersteller  | Typ  |                | [kW]                    | [m]          | [m]              | FP20.01 Ka |                    |  |
|         |             |      |                |                         |              |                  | [m]        |                    |  |
| WE26    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 10.864             |  |
| WE27    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 10.867             |  |
| WE28    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 10.600             |  |
| WE29    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 10.555             |  |
| WE30    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 11.029             |  |
| WE31    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 12.869             |  |
| WE32    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 12.802             |  |
| WE33    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 12.080             |  |
| WE34    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 11.210             |  |
| WE35    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 10.572             |  |
| WE36    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 10.649             |  |
| WE37    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 11.638             |  |
| WE38    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 10.531             |  |
| WE39    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 61,5       | 12.616             |  |
| WE40    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 11.053             |  |
| WE41    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 13.017             |  |
| WE42    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 12.901             |  |
| WE43    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 12.876             |  |
| WE44    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 12.934             |  |
| WE45    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 12.748             |  |
| WE46    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 10.731             |  |
| WE47    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 12.838             |  |
| WE48    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 13.197             |  |
| WE49    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 13.000             |  |
| WE50    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 13.009             |  |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8       | 12.921             |  |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600        | 116,8            | 140,6      | 11.561             |  |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0      | 7.252              |  |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0      | 7.380              |  |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000        | 160,0            | 165,0      | 7.214              |  |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0      | 5.548              |  |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0      | 5.829              |  |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0      | 5.922              |  |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0      | 6.221              |  |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0      | 6.280              |  |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600        | 150,0            | 169,0      | 6.569              |  |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0      | 6.863              |  |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0      | 6.989              |  |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0      | 5.436              |  |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5             | 64,7       | 2.250              |  |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0      | 6.070              |  |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0       | 4.018              |  |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0      | 7.720              |  |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0       | 4.262              |  |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0       | 2.425              |  |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0      | 7.648              |  |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0       | 2.676              |  |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0       | 2.887              |  |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0      | 7.592              |  |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0       | 3.096              |  |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0      | 7.078              |  |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0       | 3.307              |  |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0       | 3.517              |  |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0      | 7.602              |  |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0      | 6.916              |  |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0       | 3.490              |  |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0       | 3.285              |  |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000        | 162,0            | 169,0      | 6.498              |  |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5             | 64,7       | 2.081              |  |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700        | 149,0            | 125,4      | 4.009              |  |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0       | 3.791              |  |
| WKA 21  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750        | 66,0             | 67,0       | 2.614              |  |
| WKA 22  | Existierend | Nein | VESTAS         | V66-1.750               | 1.750        | 66,0             | 67,0       | 2.359              |  |

(Fortsetzung nächste Seite)...







Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

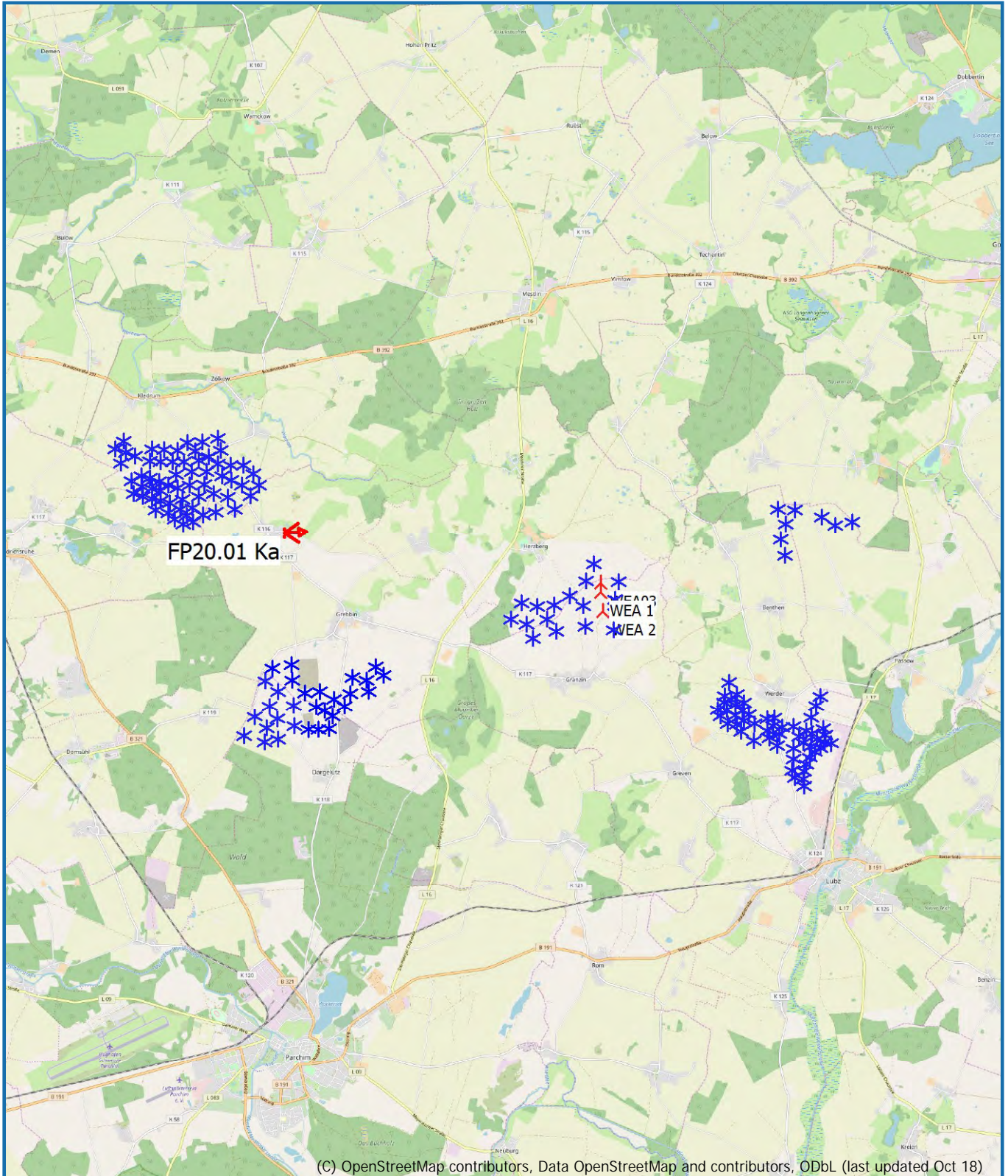
Fotoaufnahme: 02.09.2021 14:34:34  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 688.417 Nord: 5.935.201  
 Windrichtung: 0° Richtung des Fotos: 88°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP20.01 Ka FP20.01, Kossebade, Kirche, von Friedhof

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP20, Kossebade, Kirche; 2022-08-24



0 2,5 5 7,5 10km

Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

Neue WEA \* Existierende WEA Kamera



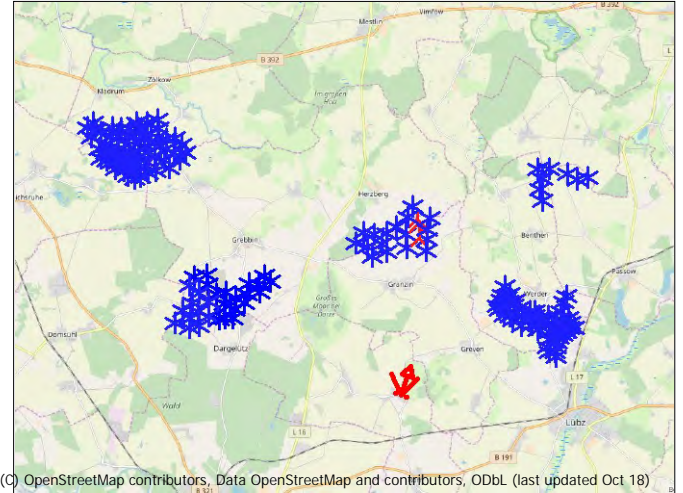
Projekt:  
0108-Granzin

Beschreibung:  
Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender:  
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Raimund Wörl / raimund.woerl@eno-site.com  
Berechnet:  
25.08.2022 11:13/3.5.584

## VISUAL - Hauptergebnis

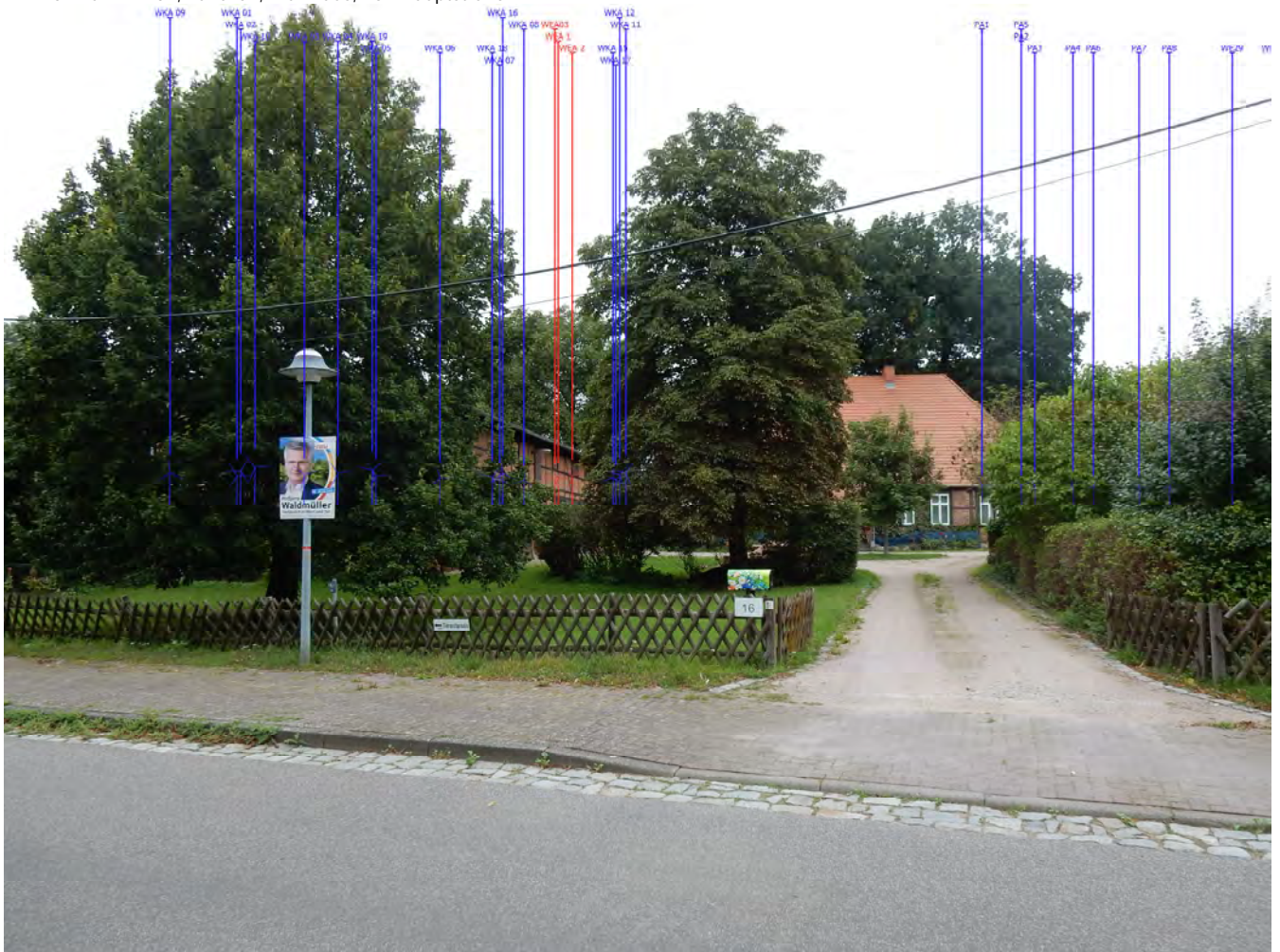
Berechnung: Granzin, Visualisierung; FP21, Lancken, Pfarrhaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

Maßstab 1:250.000  
 ▲ Neue WEA      ★ Existierende WEA      ↗ Kamera

FP21.01 Ka FP21.01, Lancken, Pfarrhaus, von Hauptstraße



|                             |         |           |      |              |                                  |  |
|-----------------------------|---------|-----------|------|--------------|----------------------------------|--|
| UTM (north)-ETRS89 Zone: 32 | Ost     | Nord      | Z    | Wolken       | :Schwer bedeckt mit Wolken (6/8) | Foto-Datei im Querformat: 4608 x 3456 Pixel                                |
| Kamerapunkt                 | 695.285 | 5.928.507 | 60,6 | Sichtbarkeit | :Normal                          | DSCN6244.JPG   |
| Zielpunkt                   | 695.315 | 5.928.716 | 66,8 | Sonne        | :Normal                          | Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm                 |
| Foto-Richtung               | 10°     |           |      | Windricht.   | :0°                              | Fotobeschreibung.: FP21.01 Ka FP21.01, Lancken, Pfarrhaus, von Hauptstraße |



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP21, Lancken, Pfarrhaus; 2022-08-24

### WEA-Platzierung

|      |             | WEA-Typ |            | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera FP21.01 Ka |     |
|------|-------------|---------|------------|----------------------|-------------------|----------------------|---------------|-------------------------------|-----|
|      | Existierend | Aktuell | Hersteller |                      |                   |                      |               | [m]                           | [m] |
| B01  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 7.912                         |     |
| B02  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 7.588                         |     |
| B03  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 7.397                         |     |
| B04  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 108,3         | 6.278                         |     |
| B05  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 108,3         | 5.997                         |     |
| B06  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 7.001                         |     |
| B07  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 5.804                         |     |
| B08  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 6.125                         |     |
| B09  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 6.733                         |     |
| B10  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 6.370                         |     |
| B11  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 6.066                         |     |
| B12  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 6.024                         |     |
| B13  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 5.767                         |     |
| B14  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.550                         |     |
| B15  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.100                         |     |
| B16  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.582                         |     |
| B17  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.299                         |     |
| B18  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 6.903                         |     |
| B19  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.799                         |     |
| B20  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.466                         |     |
| B21  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.130                         |     |
| B22  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.883                         |     |
| B23  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.407                         |     |
| B24  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.913                         |     |
| B25  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.564                         |     |
| B26  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.371                         |     |
| B27  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.147                         |     |
| B28  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.208                         |     |
| B29  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.420                         |     |
| B30  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.633                         |     |
| PA1  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 8.766                         |     |
| PA2  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 8.573                         |     |
| PA3  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 8.214                         |     |
| PA4  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 7.966                         |     |
| PA5  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 8.949                         |     |
| PA6  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 9.175                         |     |
| PA7  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 9.205                         |     |
| PA8  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 9.502                         |     |
| WE01 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.130                         |     |
| WE02 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.299                         |     |
| WE03 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.226                         |     |
| WE04 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 4.573                         |     |
| WE05 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.103                         |     |
| WE06 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.825                         |     |
| WE07 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.728                         |     |
| WE08 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 4.921                         |     |
| WE09 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.164                         |     |
| WE10 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.516                         |     |
| WE11 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.547                         |     |
| WE12 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.569                         |     |
| WE13 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 5.318                         |     |
| WE14 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 4.458                         |     |
| WE15 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 4.811                         |     |
| WE16 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 4.796                         |     |
| WE17 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 5.969                         |     |
| WE18 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 6.200                         |     |
| WE19 | Existierend | Nein    | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 6.012                         |     |
| WE20 | Existierend | Nein    | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 5.868                         |     |
| WE21 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 60,0          | 4.962                         |     |
| WE22 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 4.639                         |     |
| WE23 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 5.242                         |     |
| WE24 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 4.503                         |     |
| WE25 | Existierend | Nein    | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 4.901                         |     |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP21, Lancken, Pfarrhaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller |                | Typ                     | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera FP21.01 Ka [m] |        |
|---------|-------------|------------|----------------|-------------------------|-------------------|----------------------|---------------|-----------------------------------|--------|
| Aktuell |             |            |                |                         |                   |                      |               |                                   |        |
| WE26    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 4.299  |
| WE27    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 4.720  |
| WE28    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 4.568  |
| WE29    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 4.973  |
| WE30    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 4.901  |
| WE31    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 5.577  |
| WE32    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 5.705  |
| WE33    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 4.995  |
| WE34    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 4.453  |
| WE35    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 4.696  |
| WE36    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 4.301  |
| WE37    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 5.095  |
| WE38    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 4.346  |
| WE39    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 61,5          |                                   | 6.392  |
| WE40    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 4.755  |
| WE41    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 5.273  |
| WE42    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 6.096  |
| WE43    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 5.360  |
| WE44    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 5.296  |
| WE45    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 5.118  |
| WE46    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 4.738  |
| WE47    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 5.443  |
| WE48    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 6.141  |
| WE49    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 5.874  |
| WE50    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 6.094  |
| WE51    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900               | 52,0                 | 73,8          |                                   | 5.721  |
| WE52    | Existierend | Ja         | NORDEX         | N117/3600-3.600         | 3.600             | 116,8                | 140,6         |                                   | 4.591  |
| WEA 1   | Neu         | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         |                                   | 5.653  |
| WEA 2   | Neu         | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         |                                   | 5.233  |
| WEA03   | Neu         | Ja         | eno            | eno160-6.0MW_rev1-6.000 | 6.000             | 160,0                | 165,0         |                                   | 5.860  |
| WKA 01  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         |                                   | 5.540  |
| WKA 02  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         |                                   | 5.037  |
| WKA 03  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         |                                   | 5.396  |
| WKA 04  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         |                                   | 5.064  |
| WKA 05  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         |                                   | 5.380  |
| WKA 06  | Existierend | Ja         | VESTAS         | V150-5.6-5.600          | 5.600             | 150,0                | 169,0         |                                   | 5.562  |
| WKA 07  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         |                                   | 5.892  |
| WKA 08  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         |                                   | 6.263  |
| WKA 09  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         |                                   | 5.257  |
| WKA 1   | Existierend | Nein       | ENRONWIND      | EW 1.5s-1.500           | 1.500             | 70,5                 | 64,7          |                                   | 11.480 |
| WKA 10  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         |                                   | 4.706  |
| WKA 10  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          |                                   | 13.441 |
| WKA 11  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         |                                   | 4.856  |
| WKA 11  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          |                                   | 13.669 |
| WKA 12  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          |                                   | 11.689 |
| WKA 12  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600             | 162,0                | 169,0         |                                   | 5.242  |
| WKA 13  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          |                                   | 11.951 |
| WKA 14  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          |                                   | 12.139 |
| WKA 15  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         |                                   | 5.531  |
| WKA 15  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          |                                   | 12.327 |
| WKA 16  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         |                                   | 4.876  |
| WKA 16  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          |                                   | 12.518 |
| WKA 17  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          |                                   | 12.708 |
| WKA 17  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         |                                   | 5.931  |
| WKA 18  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500             | 158,0                | 161,0         |                                   | 5.326  |
| WKA 18  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          |                                   | 12.842 |
| WKA 19  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          |                                   | 12.652 |
| WKA 19  | Existierend | Ja         | VESTAS         | V162-6.0-6.000          | 6.000             | 162,0                | 169,0         |                                   | 4.780  |
| WKA 2   | Existierend | Nein       | ENRONWIND      | EW 1.5s-1.500           | 1.500             | 70,5                 | 64,7          |                                   | 11.271 |
| WKA 2   | Existierend | Ja         | NORDEX         | N149/5.7-5.700          | 5.700             | 149,0                | 125,4         |                                   | 13.364 |
| WKA 20  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600               | 46,0                 | 60,0          |                                   | 13.228 |
| WKA 21  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          |                                   | 12.184 |
| WKA 22  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750             | 66,0                 | 67,0          |                                   | 11.942 |

(Fortsetzung nächste Seite)...

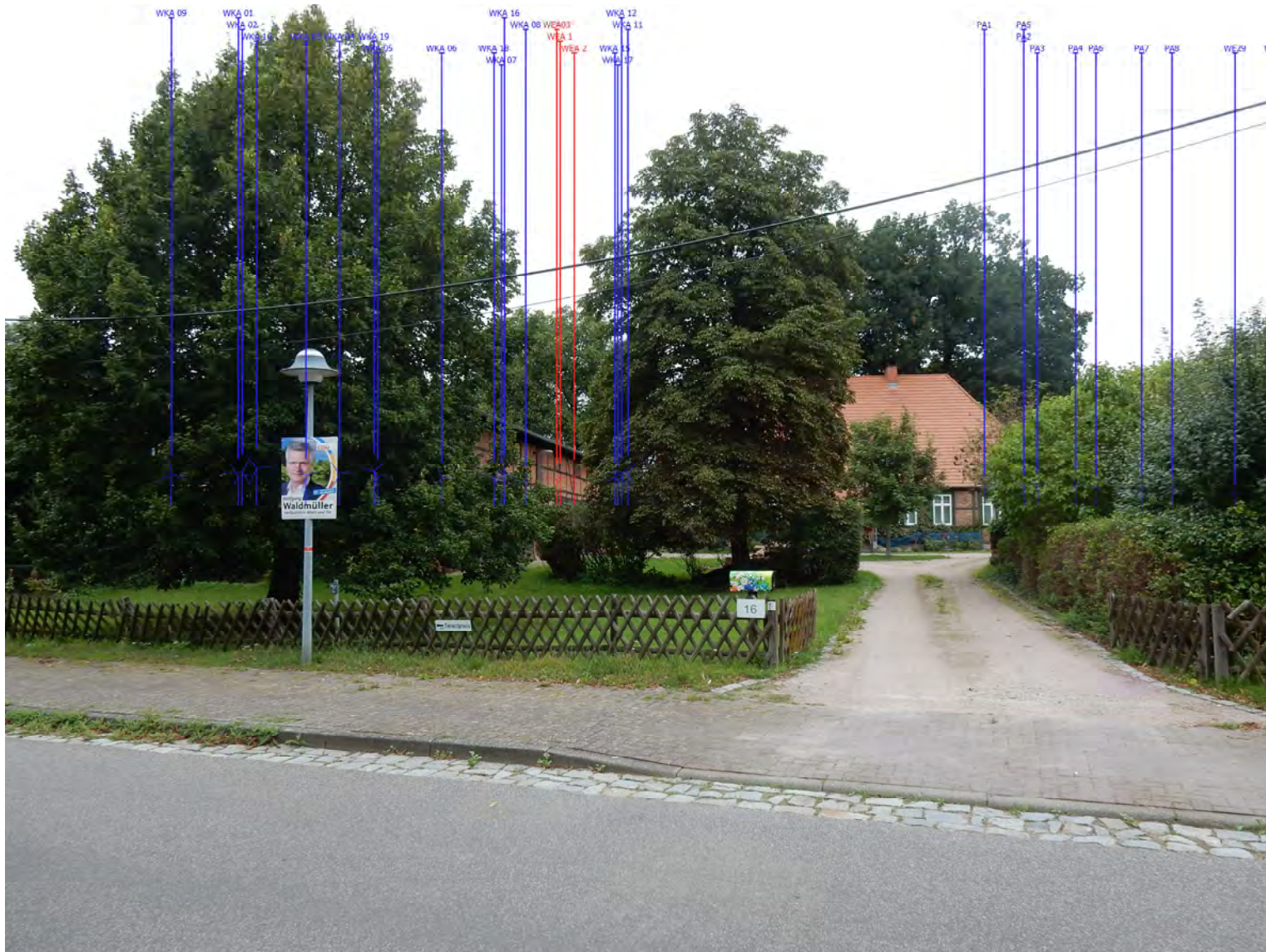


## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP21, Lancken, Pfarrhaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller | Typ       | Nennleistung [kW]    | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |        |
|---------|-------------|------------|-----------|----------------------|----------------------|---------------|--------------------|--------|
| Aktuell | Existierend |            |           |                      |                      |               | FP21.01 Ka         | [m]    |
| WKA 23  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 11.525 |
| WKA 24  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 11.341 |
| WKA 25  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 11.053 |
| WKA 26  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.486 |
| WKA 27  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.558 |
| WKA 28  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.193 |
| WKA 29  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.645 |
| WKA 3   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 12.437 |
| WKA 30  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.813 |
| WKA 31  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 10.766 |
| WKA 32  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.068 |
| WKA 33  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.341 |
| WKA 34  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 10.739 |
| WKA 35  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 10.779 |
| WKA 36  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.029 |
| WKA 37  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.285 |
| WKA 38  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.761 |
| WKA 39  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 12.106 |
| WKA 4   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 12.237 |
| WKA 40  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 12.360 |
| WKA 41  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 12.048 |
| WKA 42  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.883 |
| WKA 43  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.786 |
| WKA 44  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 12.263 |
| WKA 46  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 11.497 |
| WKA 47  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 12.010 |
| WKA 48  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 12.319 |
| WKA 49  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 12.273 |
| WKA 5   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 12.036 |
| WKA 50  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 12.472 |
| WKA 51  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 12.672 |
| WKA 52  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 12.928 |
| WKA 53  | Existierend | Ja         | eno       | eno 82 2.05-2.050    | 2.050                | 82,4          | 108,0              | 13.627 |
| WKA 54  | Existierend | Nein       | NEG MICON | NM72C/1500-1.500/400 | 1.500                | 72,0          | 80,0               | 12.585 |
| WKA 55  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 12.610 |
| WKA 56  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 12.825 |
| WKA 57  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 13.045 |
| WKA 58  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 11.832 |
| WKA 59  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 113,5              | 12.100 |
| WKA 6   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 12.332 |
| WKA 60  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.028 |
| WKA 61  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 11.631 |
| WKA 62  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 11.420 |
| WKA 7   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 12.516 |
| WKA 8   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 12.711 |
| WKA 9   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 12.891 |



Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

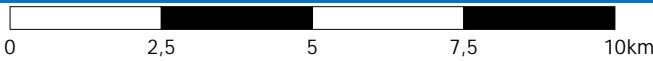
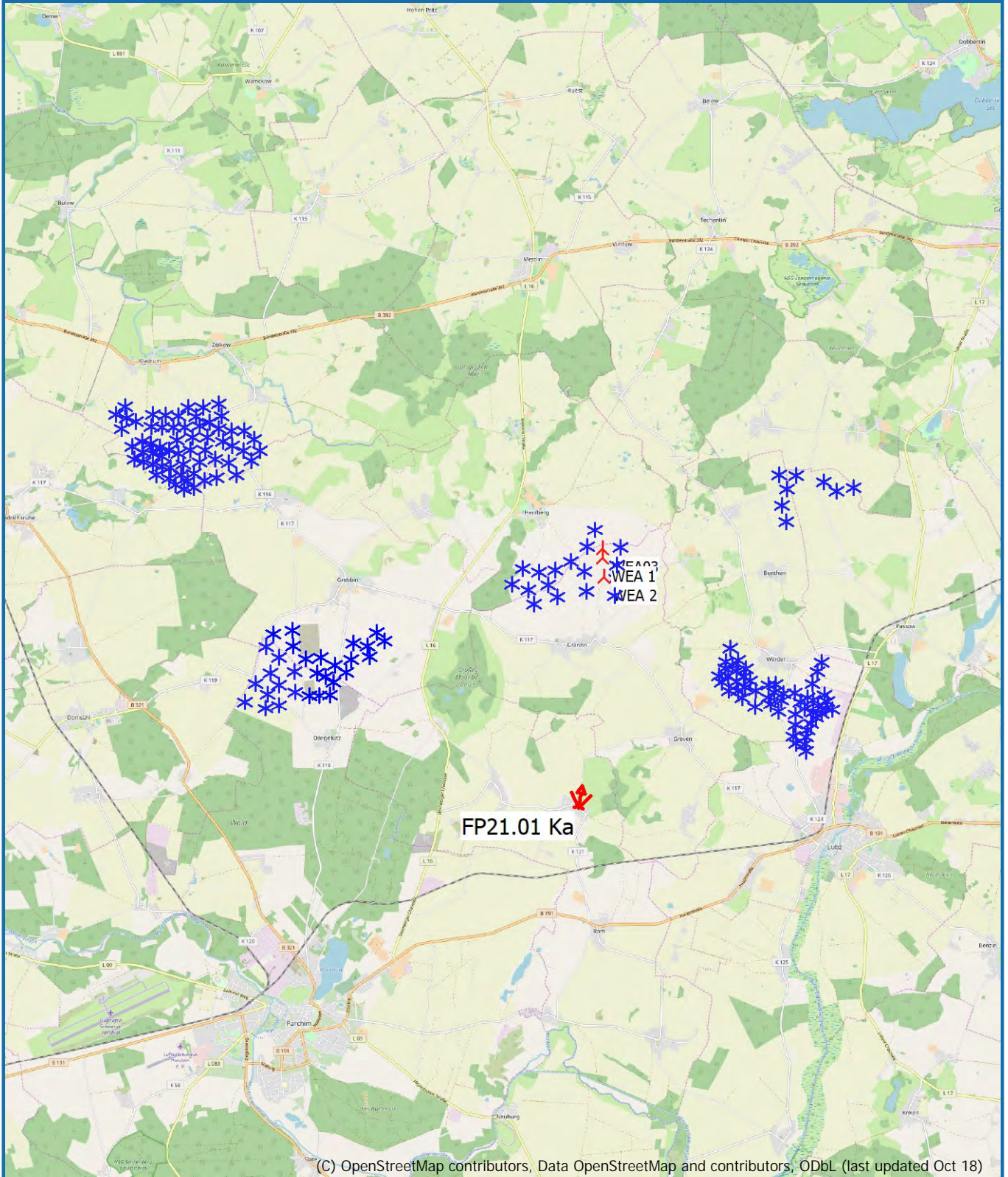
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 Windrichtung: 0° Richtung des Fotos: 10°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP21.01 Ka FP21.01, Lancken, Pfarrhaus, von Hauptstraße

Erzeugt von:  
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 Straße am Zeltplatz 7  
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 Raimund Wörl / raimund.woerl@eno-site.com



VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP21, Lancken, Pfarrhaus; 2022-08-24



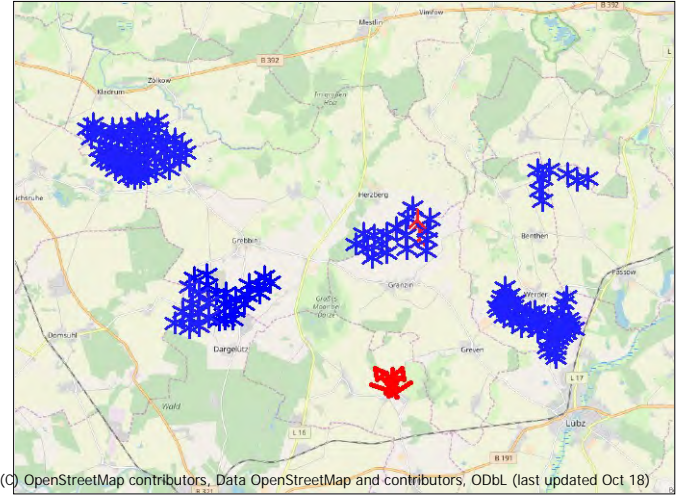
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- Neue WEA
- Existierende WEA
- Kamera



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP22, Lancken, Gutshaus; 2022-08-24



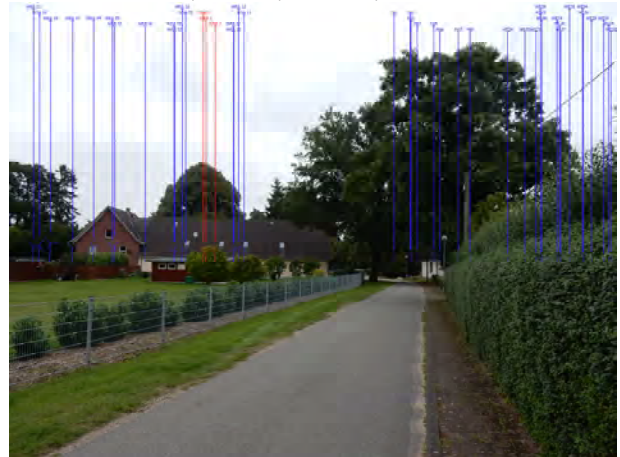
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 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP22.01 Ka FP22.01, Lancken, Gutshaus, davor von Schulstraße



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken -Schwer bedeckt mit Wolken (6/8) Foto-Datei im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt: 644.998 5.928.834 61.5 Sichtbarkei: Normal DSCN0253.JPG  
 Zielpunkt: 644.808 5.928.864 75.5 Sonne -Normal Geschichtsfeld: 69.4°x54.9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung: 323° Windricht: 0° Fotobeschreibung: FP22.01 Ka FP22.01, Lancken, Gutshaus, davor von Schulstraße

FP22.02 Ka FP22.02, Lancken, Gutshaus, von Schulstraße



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken -Schwer bedeckt mit Wolken (6/8) Foto-Datei im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt: 644.948 5.928.519 61.2 Sichtbarkei: Normal DSCN0254.JPG  
 Zielpunkt: 645.057 5.928.835 85.8 Sonne -Normal Geschichtsfeld: 69.4°x54.9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung: 223° Windricht: 0° Fotobeschreibung: FP22.02 Ka FP22.02, Lancken, Gutshaus, von Schulstraße

### WEA-Platzierung

| WEA-Id | Status      | Ja | Hersteller | Typ           | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|--------|-------------|----|------------|---------------|-------------------|----------------------|---------------|--------------------|----------------|
|        |             |    |            |               |                   |                      |               | FP22.01 Ka [m]     | FP22.02 Ka [m] |
| B01    | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 7.599              | 7.599          |
| B02    | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 7.276              | 7.280          |
| B03    | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 7.084              | 7.084          |
| B04    | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 5.969              | 5.982          |
| B05    | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 5.690              | 5.706          |
| B06    | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 6.687              | 6.686          |
| B07    | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.495              | 5.508          |
| B08    | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.814              | 5.821          |
| B09    | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 6.420              | 6.422          |
| B10    | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 6.057              | 6.059          |
| B11    | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.753              | 5.754          |
| B12    | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.721              | 5.744          |
| B13    | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 5.464              | 5.487          |
| B14    | Existierend | Ja | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 7.237              | 7.231          |
| B15    | Existierend | Ja | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.786              | 6.778          |
| B16    | Existierend | Ja | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 7.269              | 7.257          |
| B17    | Existierend | Ja | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.986              | 6.972          |
| B18    | Existierend | Ja | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 6.590              | 6.576          |

(Fortsetzung nächste Seite)...









## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP22, Lancken, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|         |             | WEA-Typ |           | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|---------|-------------|---------|-----------|----------------------|-------------------|----------------------|---------------|--------------------|----------------|
| Aktuell | Hersteller  |         |           |                      |                   |                      |               | FP22.01 Ka [m]     | FP22.02 Ka [m] |
| WKA 4   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 11.934             | 11.955         |
| WKA 40  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 12.067             | 12.099         |
| WKA 41  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.749             | 11.776         |
| WKA 42  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.582             | 11.607         |
| WKA 43  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.483             | 11.505         |
| WKA 44  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.962             | 11.986         |
| WKA 46  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 11.202             | 11.232         |
| WKA 47  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 11.716             | 11.747         |
| WKA 48  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 12.024             | 12.054         |
| WKA 49  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 11.969             | 11.989         |
| WKA 5   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 11.734             | 11.756         |
| WKA 50  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 12.167             | 12.186         |
| WKA 51  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 12.367             | 12.385         |
| WKA 52  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 12.622             | 12.640         |
| WKA 53  | Existierend | Ja      | eno       | eno 82 2.05-2.050    | 2.050             | 82,4                 | 108,0         | 13.324             | 13.347         |
| WKA 54  | Existierend | Nein    | NEG MICON | NM72C/1500-1.500/400 | 1.500             | 72,0                 | 80,0          | 12.289             | 12.320         |
| WKA 55  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 12.312             | 12.340         |
| WKA 56  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 12.526             | 12.552         |
| WKA 57  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 12.745             | 12.769         |
| WKA 58  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 11.526             | 11.544         |
| WKA 59  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 113,5         | 11.793             | 11.809         |
| WKA 6   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 12.034             | 12.061         |
| WKA 60  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 10.727             | 10.751         |
| WKA 61  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 11.324             | 11.342         |
| WKA 62  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 11.114             | 11.131         |
| WKA 7   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 12.216             | 12.242         |
| WKA 8   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 12.409             | 12.434         |
| WKA 9   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 12.589             | 12.612         |



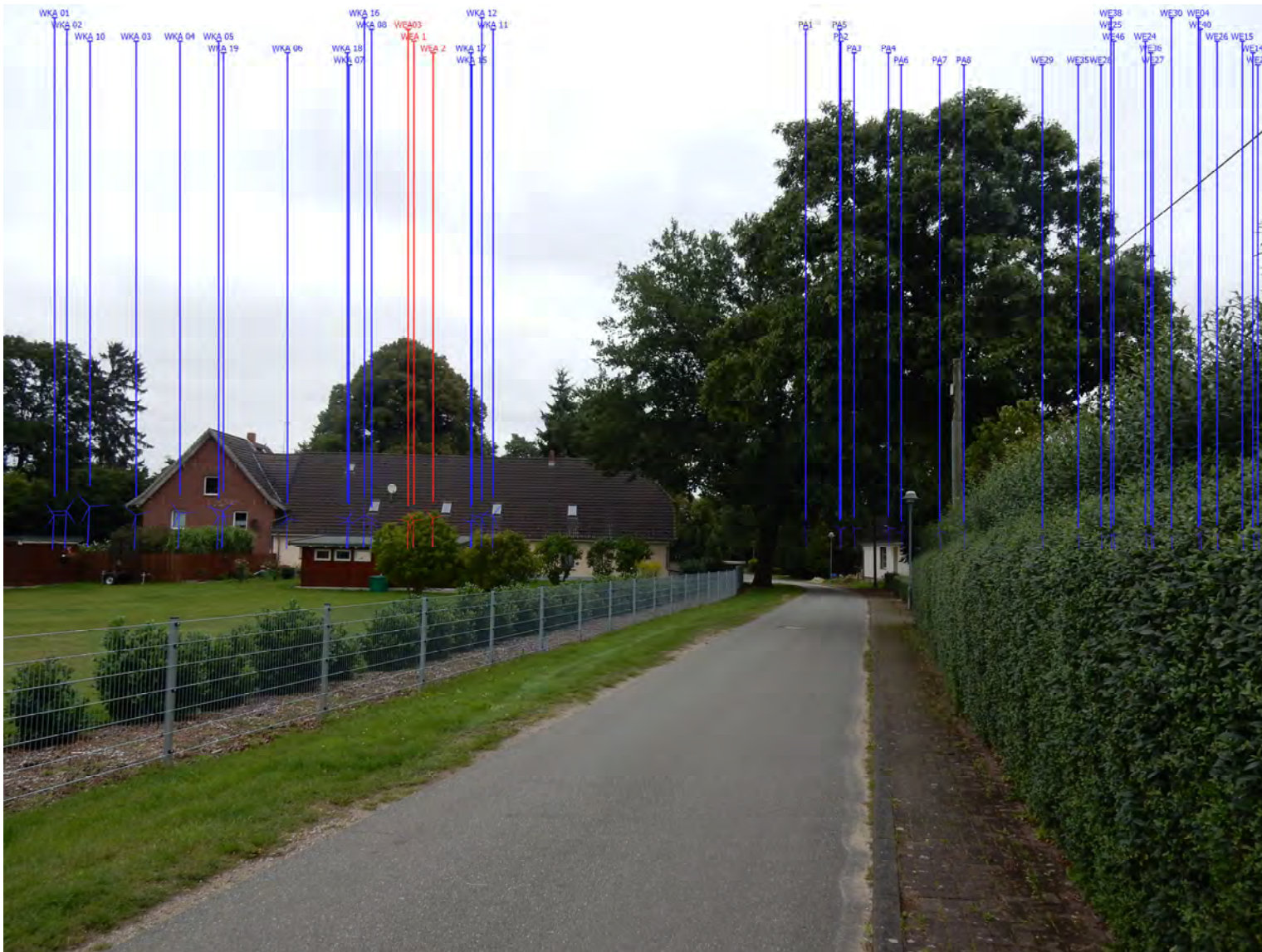
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 02.09.2021 12:39:11  
Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 694.998 Nord: 5.928.634  
Windrichtung: 0° Richtung des Fotos: 323°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP22.01 Ka FP22.01, Lancken, Gutshaus, davor von Schulstraße

Erzeugt von:  
enosite GmbH  
Straße am Zeltplatz 7  
DE-18230 Ostseebad Rerik  
+49(0)38296 747 400  
Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

Empfohlener Betrachtungsabstand: 15 cm

Fotoaufnahme: 02.09.2021 12:40:41  
Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 694.948 Nord: 5.928.539  
Windrichtung: 0° Richtung des Fotos: 23°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP22.02 Ka FP22.02, Lancken, Gutshaus, von Schulstraße

Erzeugt von:  
enosite GmbH  
Straße am Zeltplatz 7  
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Raimund Wörl / raimund.woerl@eno-site.com



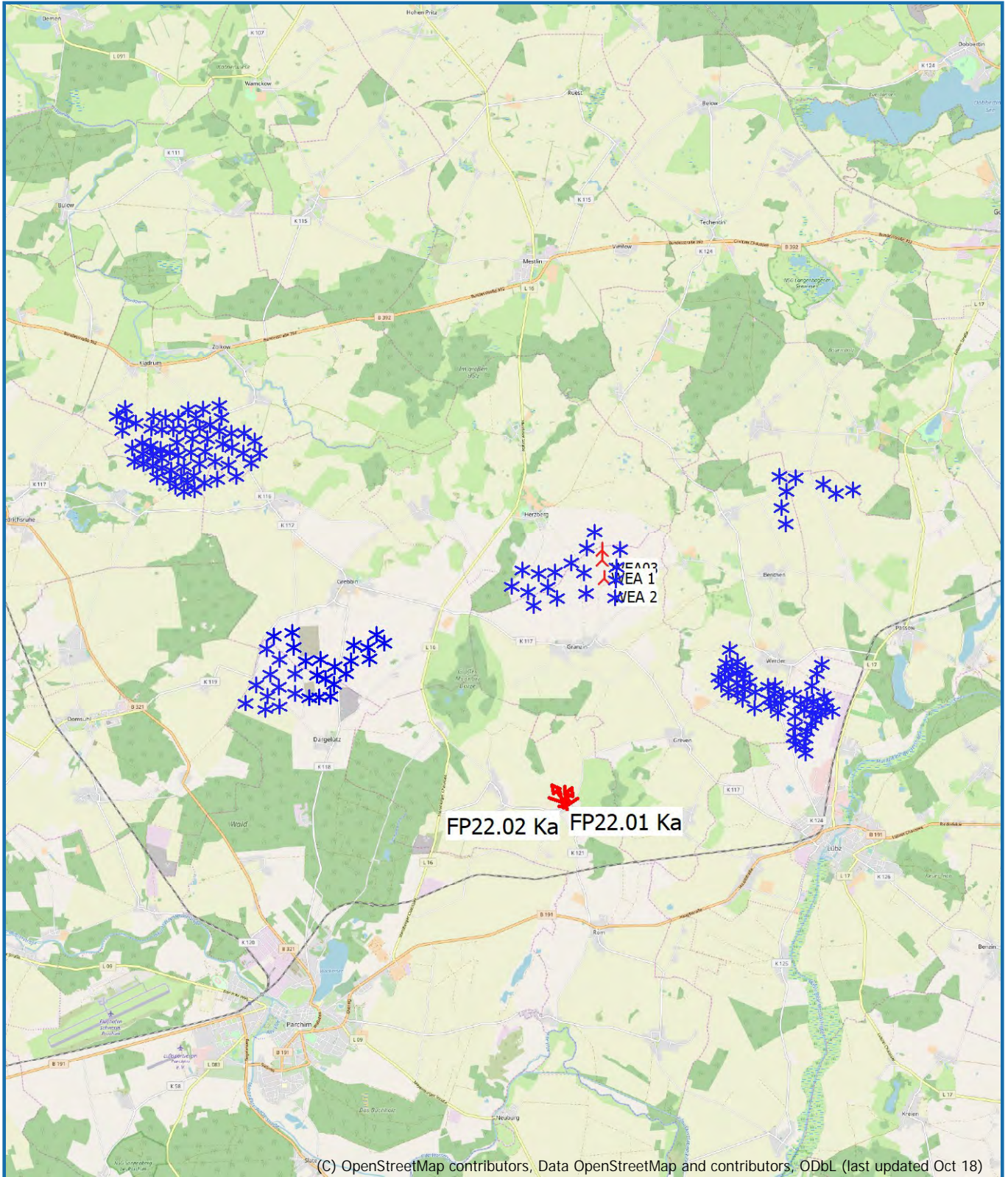
Projekt:  
0108-Granzin

Beschreibung:  
Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender:  
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Raimund Woerl / raimund.woerl@eno-site.com  
Berechnet:  
25.08.2022 11:13/3.5.584

## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP22, Lancken, Gutshaus; 2022-08-24



0 2,5 5 7,5 10km

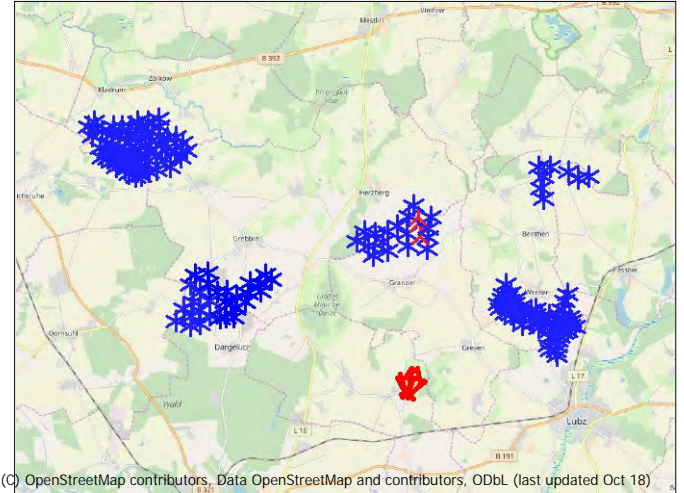
Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.932.907

Neue WEA \* Existierende WEA Kamera



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP23, Lancken, Kirche; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP23.01 Ka FP23.01, Lancken, Kirche, von Rasenfläche



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken -Schwer bedeckt mit Wolken (6/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 695.472 5.928.397 59,7 Sichtbarkei: Normal OSCH6229.JPG  
 Zielpunkt 695.491 5.928.612 88,3 Sonne -Normal Geschicfsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung 7° Windricht: -0° Fotobeschreibung: FP23.01 Ka FP23.01, Lancken, Kirche, von Rasenfläche

FP23.02 Ka FP23.02, Lancken, Kirche, von Rasenfläche



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken -Schwer bedeckt mit Wolken (6/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 695.441 5.928.441 60,1 Sichtbarkei: Normal OSCH6229.JPG  
 Zielpunkt 695.518 5.928.726 83,2 Sonne -Normal Geschicfsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung 17° Windricht: -0° Fotobeschreibung: FP23.02 Ka FP23.02, Lancken, Kirche, von Rasenfläche

### WEA-Platzierung

| WEA-Id | Status      | Ja | WEA-Typ |            | Typ        | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|--------|-------------|----|---------|------------|------------|-------------------|----------------------|---------------|--------------------|----------------|
|        |             |    | Aktuell | Hersteller |            |                   |                      |               | FP23.01 Ka [m]     | FP23.02 Ka [m] |
| B01    | Existierend | Ja | ENERCON | E-82       | E-82-2.000 | 2.000             | 82,0                 | 78,3          | 8.129              | 8.081          |
| B02    | Existierend | Ja | ENERCON | E-82       | E-82-2.000 | 2.000             | 82,0                 | 78,3          | 7.805              | 7.756          |
| B03    | Existierend | Ja | ENERCON | E-82       | E-82-2.000 | 2.000             | 82,0                 | 78,3          | 7.614              | 7.566          |
| B04    | Existierend | Ja | ENERCON | E-82       | E-82-2.000 | 2.000             | 82,0                 | 108,3         | 6.494              | 6.444          |
| B05    | Existierend | Ja | ENERCON | E-82       | E-82-2.000 | 2.000             | 82,0                 | 108,3         | 6.214              | 6.163          |
| B06    | Existierend | Ja | ENERCON | E-82       | E-82-2.000 | 2.000             | 82,0                 | 78,3          | 7.217              | 7.170          |
| B07    | Existierend | Ja | ENERCON | E-82       | E2-2.300   | 2.300             | 82,0                 | 108,4         | 6.021              | 5.971          |
| B08    | Existierend | Ja | ENERCON | E-82       | E2-2.300   | 2.300             | 82,0                 | 108,4         | 6.342              | 6.293          |
| B09    | Existierend | Ja | ENERCON | E-82       | E2-2.300   | 2.300             | 82,0                 | 108,4         | 6.950              | 6.902          |
| B10    | Existierend | Ja | ENERCON | E-82       | E2-2.300   | 2.300             | 82,0                 | 108,4         | 6.587              | 6.539          |
| B11    | Existierend | Ja | ENERCON | E-82       | E2-2.300   | 2.300             | 82,0                 | 108,4         | 6.282              | 6.234          |
| B12    | Existierend | Ja | ENERCON | E-82       | E2-2.300   | 2.300             | 82,0                 | 108,4         | 6.239              | 6.188          |
| B13    | Existierend | Ja | ENERCON | E-82       | E2-2.300   | 2.300             | 82,0                 | 108,4         | 5.982              | 5.931          |
| B14    | Existierend | Ja | ENERCON | E-70       | E4-2.000   | 2.000             | 71,0                 | 85,0          | 7.766              | 7.720          |
| B15    | Existierend | Ja | ENERCON | E-70       | E4-2.000   | 2.000             | 71,0                 | 85,0          | 7.315              | 7.269          |
| B16    | Existierend | Ja | ENERCON | E-70       | E4-2.000   | 2.000             | 71,0                 | 85,0          | 7.797              | 7.752          |
| B17    | Existierend | Ja | ENERCON | E-70       | E4-2.000   | 2.000             | 71,0                 | 85,0          | 7.512              | 7.468          |
| B18    | Existierend | Ja | ENERCON | E-70       | E4-2.000   | 2.000             | 71,0                 | 85,0          | 7.116              | 7.072          |

(Fortsetzung nächste Seite)...







## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP23, Lancken, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|         |             | WEA-Typ |           | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|---------|-------------|---------|-----------|----------------------|-------------------|----------------------|---------------|--------------------|----------------|
| Aktuell | Hersteller  |         |           |                      |                   |                      |               | FP23.01 Ka [m]     | FP23.02 Ka [m] |
| WKA 4   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 12.451             | 12.400         |
| WKA 40  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 12.571             | 12.518         |
| WKA 41  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 12.261             | 12.208         |
| WKA 42  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 12.096             | 12.044         |
| WKA 43  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 12.001             | 11.949         |
| WKA 44  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 12.477             | 12.425         |
| WKA 46  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 11.708             | 11.655         |
| WKA 47  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 12.222             | 12.169         |
| WKA 48  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 12.531             | 12.478         |
| WKA 49  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 12.488             | 12.437         |
| WKA 5   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 12.251             | 12.199         |
| WKA 50  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 12.687             | 12.636         |
| WKA 51  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 12.888             | 12.837         |
| WKA 52  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 13.144             | 13.093         |
| WKA 53  | Existierend | Ja      | eno       | eno 82 2.05-2.050    | 2.050             | 82,4                 | 108,0         | 13.841             | 13.790         |
| WKA 54  | Existierend | Nein    | NEG MICON | NM72C/1500-1.500/400 | 1.500             | 72,0                 | 80,0          | 12.796             | 12.744         |
| WKA 55  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 12.822             | 12.770         |
| WKA 56  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 13.038             | 12.986         |
| WKA 57  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 13.259             | 13.207         |
| WKA 58  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 12.048             | 11.997         |
| WKA 59  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 113,5         | 12.315             | 12.265         |
| WKA 6   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 12.545             | 12.492         |
| WKA 60  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.242             | 11.190         |
| WKA 61  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 11.846             | 11.795         |
| WKA 62  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 11.635             | 11.584         |
| WKA 7   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 12.729             | 12.677         |
| WKA 8   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 12.925             | 12.873         |
| WKA 9   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 13.106             | 13.054         |









Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

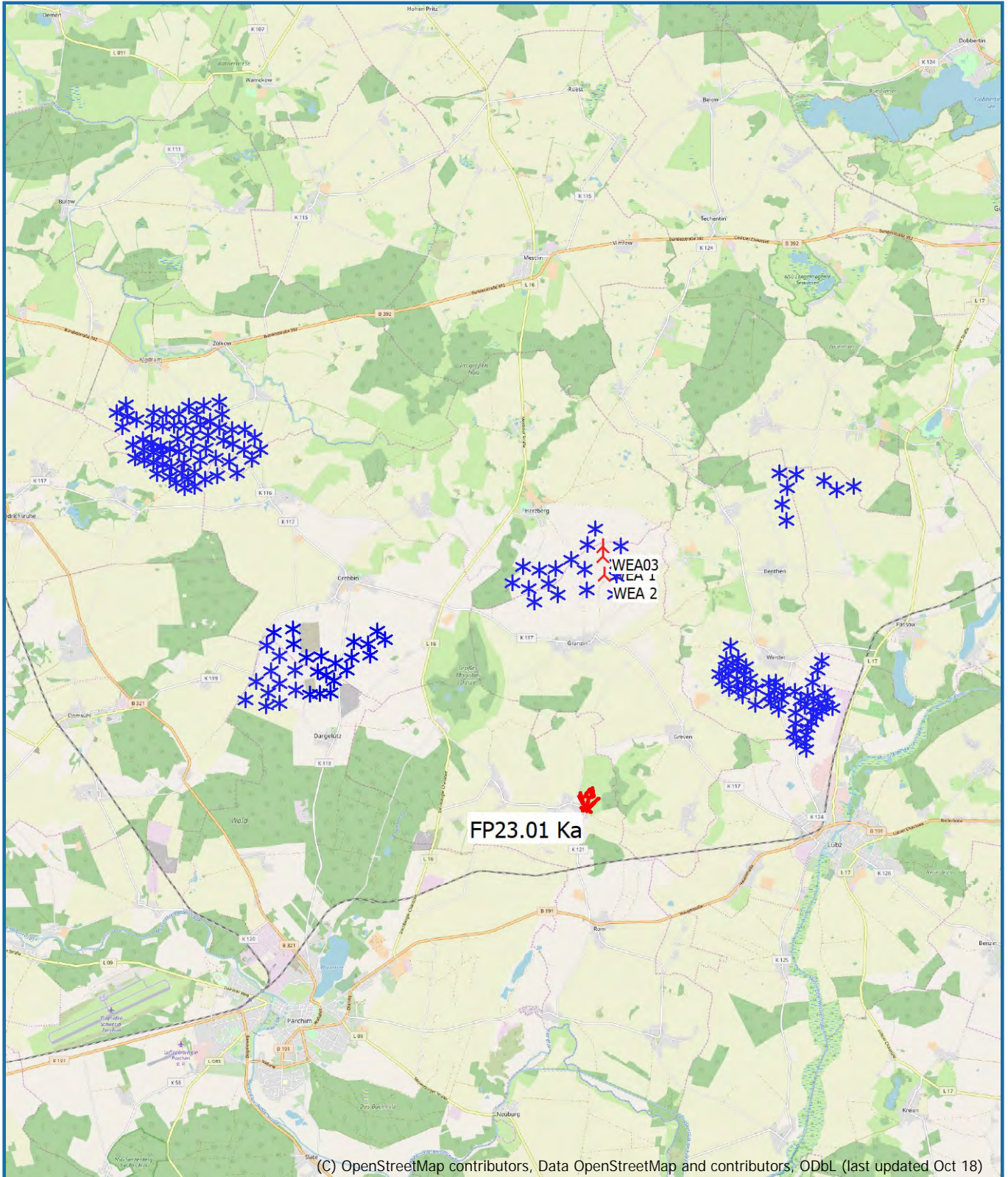
Fotoaufnahme: 02.09.2021 12:09:14  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 695.441 Nord: 5.928.441  
 Windrichtung: 0° Richtung des Fotos: 17°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP23.02 Ka FP23.02, Lancken, Kirche, von Rasenfläche

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
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 Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP23, Lancken, Kirche; 2022-08-24



Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.932.836

\* Neue WEA   
 \* Existierende WEA   
 \* Kamera



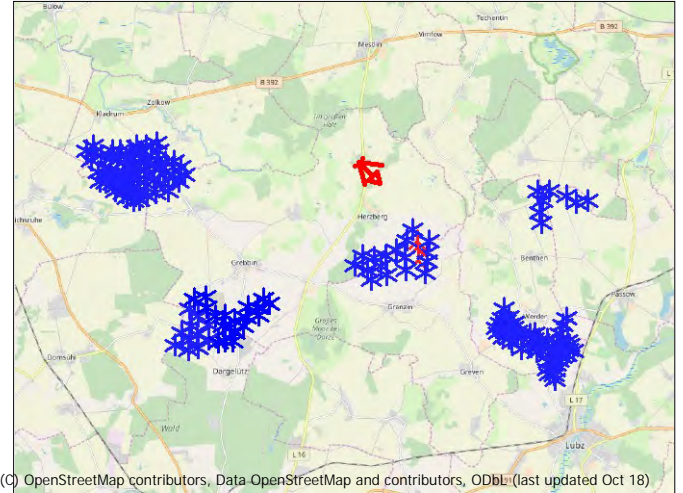
Projekt:  
0108-Granzin

Beschreibung:  
Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender:  
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DE-18230 Ostseebad Rerik  
+49(0)38296 747 400  
Raimund Wörl / raimund.woerl@eno-site.com  
Berechnet:  
25.08.2022 11:14/3.5.584

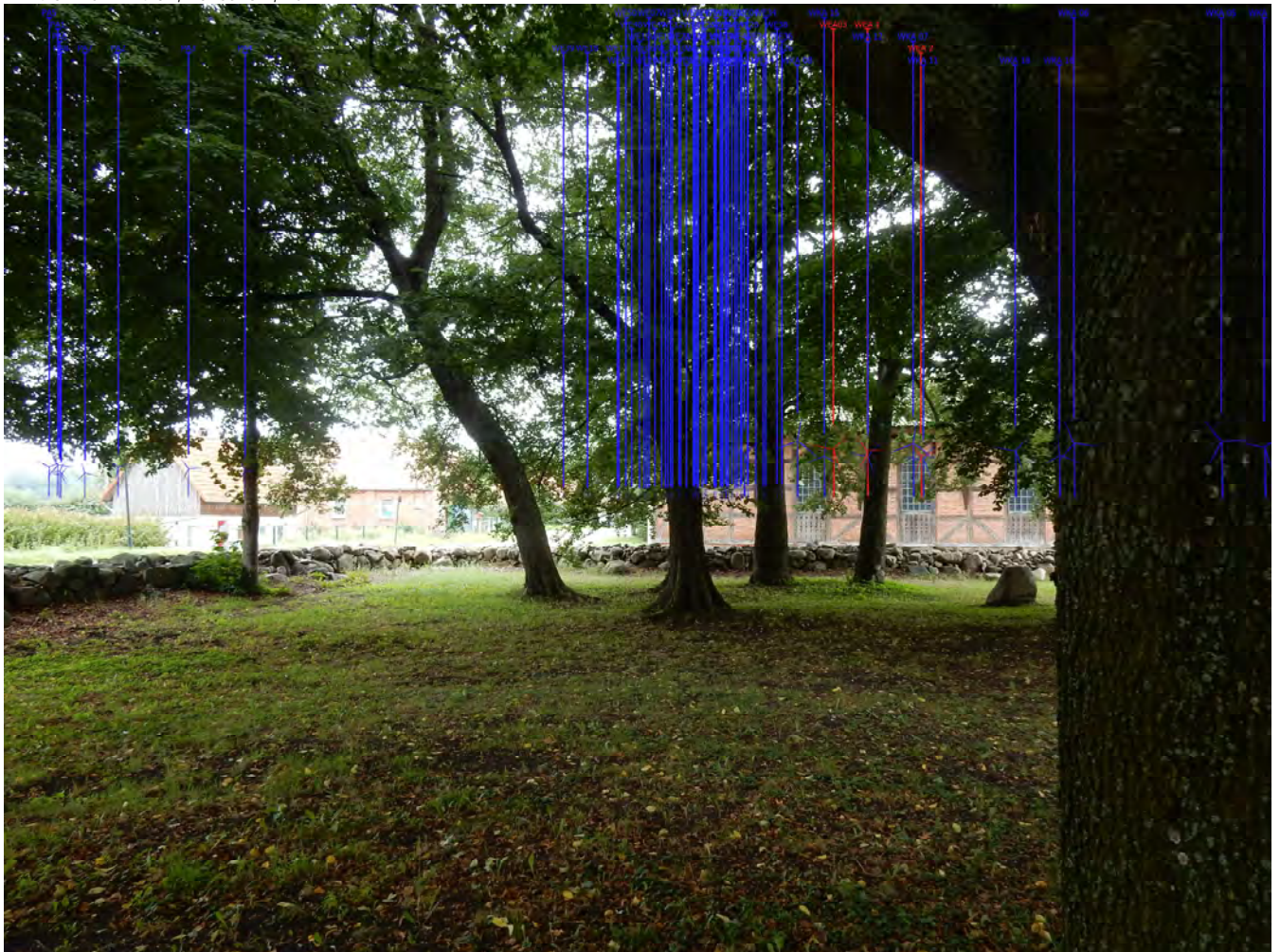
## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP24, Lenschow, Park; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)  
Maßstab 1:250.000  
▲ Neue WEA      ★ Existierende WEA      📷 Kamera

FP24.01 Ka FP24.01, Lenschow, Park



|                             |         |           |      |              |                                  |  |
|-----------------------------|---------|-----------|------|--------------|----------------------------------|--|
| UTM (north)-ETRS89 Zone: 32 | Ost     | Nord      | Z    | Wolken       | :Schwer bedeckt mit Wolken (6/8) | Foto-Datei im Querformat: 4608 x 3456 Pixel                |
| Kamerapunkt                 | 693.536 | 5.936.920 | 64,0 | Sichtbarkeit | :Normal                          | DSCN6471.JPG   |
| Zielpunkt                   | 693.613 | 5.936.857 | 66,1 | Sonne        | :Normal                          | Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm |
| Foto-Richtung               | 132°    |           |      | Windricht.   | :0°                              | Fotobeschreibung.: FP24.01 Ka FP24.01, Lenschow, Park      |



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP24, Lenschow, Park; 2022-08-24

### WEA-Platzierung

|      |             | WEA-Typ |            | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera FP24.01 Ka |     |
|------|-------------|---------|------------|----------------------|-------------------|----------------------|---------------|-------------------------------|-----|
|      | Existierend | Aktuell | Hersteller |                      |                   |                      |               | [m]                           | [m] |
| B01  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 7.117                         |     |
| B02  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 6.749                         |     |
| B03  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 6.965                         |     |
| B04  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 108,3         | 6.010                         |     |
| B05  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 108,3         | 5.866                         |     |
| B06  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 6.973                         |     |
| B07  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 6.052                         |     |
| B08  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 6.339                         |     |
| B09  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 6.724                         |     |
| B10  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 6.661                         |     |
| B11  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 6.634                         |     |
| B12  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 5.515                         |     |
| B13  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 5.570                         |     |
| B14  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.371                         |     |
| B15  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.348                         |     |
| B16  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.745                         |     |
| B17  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.826                         |     |
| B18  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.689                         |     |
| B19  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 8.153                         |     |
| B20  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 8.149                         |     |
| B21  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 8.155                         |     |
| B22  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 8.613                         |     |
| B23  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 8.412                         |     |
| B24  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 7.418                         |     |
| B25  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 7.550                         |     |
| B26  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 7.408                         |     |
| B27  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 7.257                         |     |
| B28  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.977                         |     |
| B29  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 6.983                         |     |
| B30  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 7.051                         |     |
| PA1  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 6.001                         |     |
| PA2  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 6.229                         |     |
| PA3  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 6.207                         |     |
| PA4  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 6.397                         |     |
| PA5  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 6.374                         |     |
| PA6  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 7.004                         |     |
| PA7  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 7.335                         |     |
| PA8  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 7.686                         |     |
| WE01 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.249                         |     |
| WE02 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.421                         |     |
| WE03 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 9.127                         |     |
| WE04 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.491                         |     |
| WE05 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 9.281                         |     |
| WE06 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 9.008                         |     |
| WE07 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.870                         |     |
| WE08 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.397                         |     |
| WE09 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.496                         |     |
| WE10 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.585                         |     |
| WE11 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.837                         |     |
| WE12 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 9.010                         |     |
| WE13 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.950                         |     |
| WE14 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.679                         |     |
| WE15 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.691                         |     |
| WE16 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.938                         |     |
| WE17 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 8.759                         |     |
| WE18 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 8.663                         |     |
| WE19 | Existierend | Nein    | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 9.354                         |     |
| WE20 | Existierend | Nein    | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 9.174                         |     |
| WE21 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 60,0          | 8.246                         |     |
| WE22 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 7.722                         |     |
| WE23 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 8.151                         |     |
| WE24 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 7.281                         |     |
| WE25 | Existierend | Nein    | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.160                         |     |

(Fortsetzung nächste Seite)...



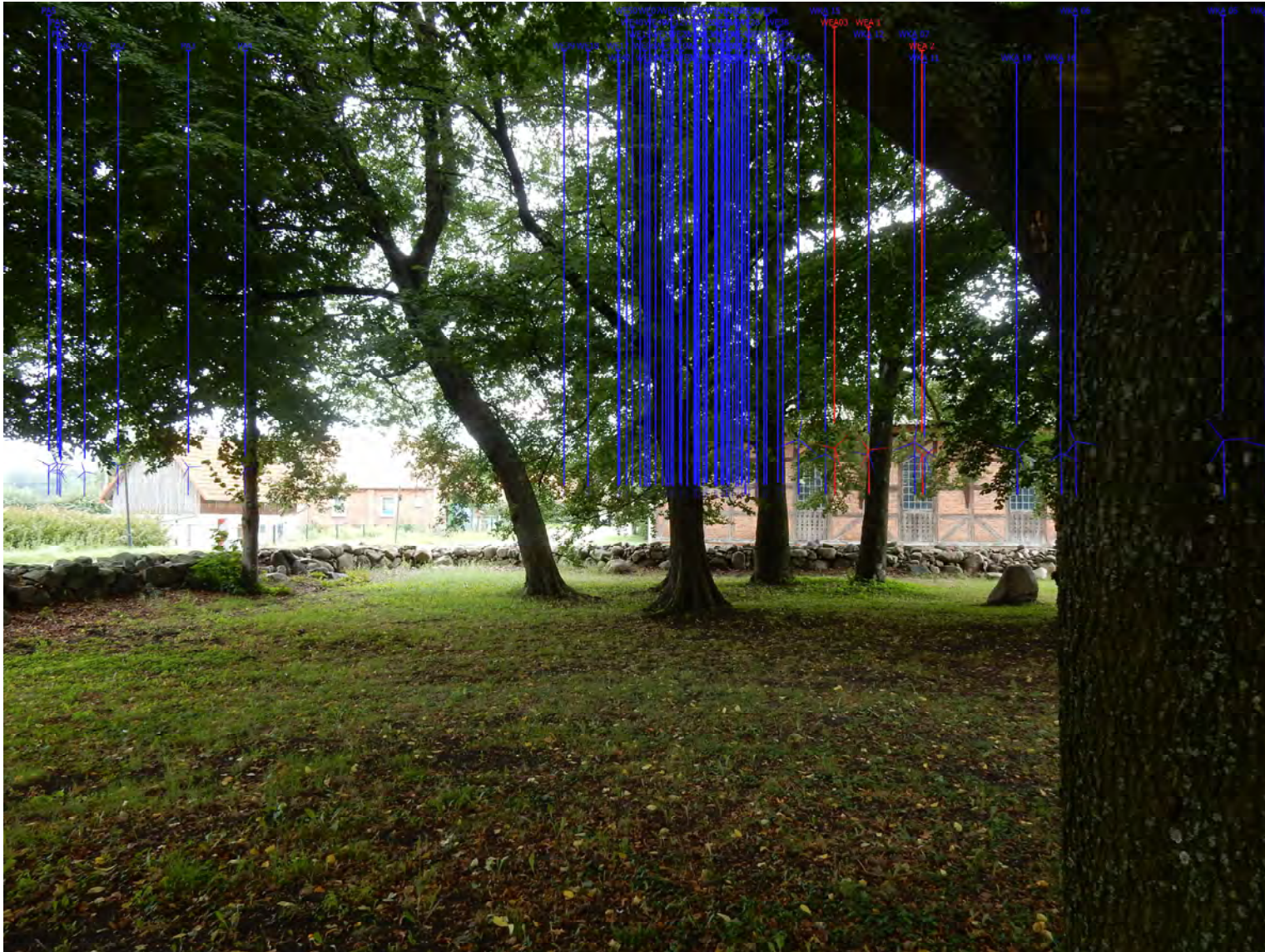


## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP24, Lenschow, Park; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller | Typ       | Nennleistung [kW]    | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |       |
|---------|-------------|------------|-----------|----------------------|----------------------|---------------|--------------------|-------|
| Aktuell | Existierend |            |           |                      |                      |               | FP24.01 Ka         | [m]   |
| WKA 23  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 6.400 |
| WKA 24  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 6.118 |
| WKA 25  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 5.899 |
| WKA 26  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.321 |
| WKA 27  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.158 |
| WKA 28  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.106 |
| WKA 29  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.009 |
| WKA 3   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 8.016 |
| WKA 30  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 6.951 |
| WKA 31  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 6.380 |
| WKA 32  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 6.510 |
| WKA 33  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 6.808 |
| WKA 34  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 6.002 |
| WKA 35  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 5.784 |
| WKA 36  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 6.154 |
| WKA 37  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 6.405 |
| WKA 38  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 6.687 |
| WKA 39  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.119 |
| WKA 4   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 7.816 |
| WKA 40  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.061 |
| WKA 41  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.285 |
| WKA 42  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.344 |
| WKA 43  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.522 |
| WKA 44  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 7.640 |
| WKA 46  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 6.604 |
| WKA 47  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 6.899 |
| WKA 48  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 7.210 |
| WKA 49  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 7.991 |
| WKA 5   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 7.617 |
| WKA 50  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 8.201 |
| WKA 51  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 8.412 |
| WKA 52  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 8.639 |
| WKA 53  | Existierend | Ja         | eno       | eno 82 2.05-2.050    | 2.050                | 82,4          | 108,0              | 8.818 |
| WKA 54  | Existierend | Nein       | NEG MICON | NM72C/1500-1.500/400 | 1.500                | 72,0          | 80,0               | 7.400 |
| WKA 55  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 7.604 |
| WKA 56  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 7.899 |
| WKA 57  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 8.178 |
| WKA 58  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 7.877 |
| WKA 59  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 113,5              | 8.147 |
| WKA 6   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 7.453 |
| WKA 60  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 6.814 |
| WKA 61  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 7.760 |
| WKA 62  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 7.588 |
| WKA 7   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 7.711 |
| WKA 8   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 7.981 |
| WKA 9   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 8.213 |



Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

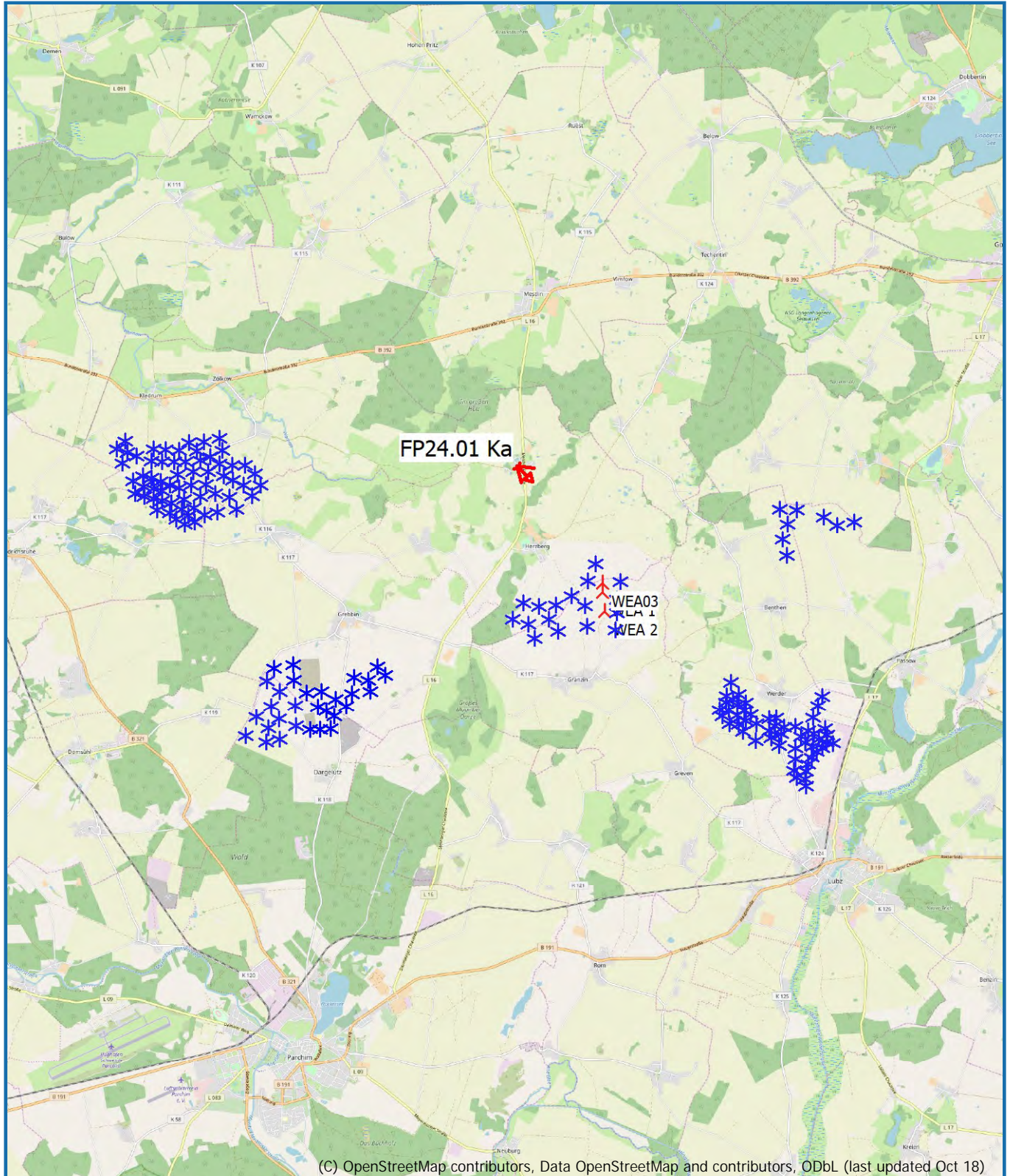
Fotoaufnahme: 02.09.2021 15:26:58  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 693.536 Nord: 5.936.920  
 Windrichtung: 0° Richtung des Fotos: 132°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP24.01 Ka FP24.01, Lenschow, Park

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP24, Lenschow, Park; 2022-08-24



0 2,5 5 7,5 10km

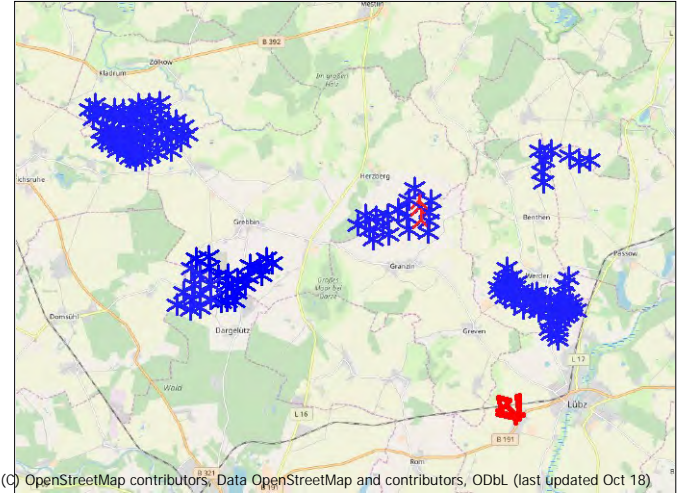
Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

Neue WEA \* Existierende WEA Kamera



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP25, Lutheran, Kirche; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

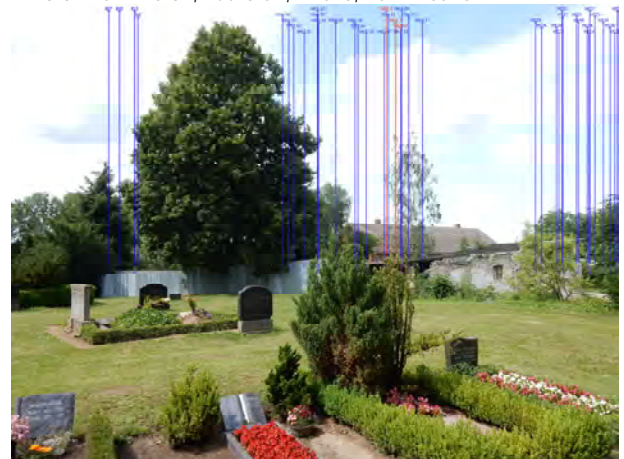
Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP25.01 Ka FP25.01, Lutheran, Kirche, von Friedhof



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken :teilweise bewölkt (4/8) Foto-Datel im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 699.187 5.927.269 61,5 Sichtbarkeit Normal DSCN0018.JPG  
 Zielpunkt 699.117 5.927.360 71,4 Sonne Normal  
 Foto-Richtung 318° Windricht. 0° Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Fotobeschreibung.: FP25.01 Ka FP25.01, Lutheran, Kirche, von Friedhof

FP25.02 Ka FP25.02, Lutheran, Kirche, von Friedhof



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken :teilweise bewölkt (4/8) Foto-Datel im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 699.205 5.927.314 61,5 Sichtbarkeit Normal DSCN0022.JPG  
 Zielpunkt 699.143 5.927.353 71,2 Sonne Normal  
 Foto-Richtung 324° Windricht. 0° Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm  
 Fotobeschreibung.: FP25.02 Ka FP25.02, Lutheran, Kirche, von Friedhof

### WEA-Platzierung

| WEA-Id | Status      | WEA-Typ |            | Typ           | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|--------|-------------|---------|------------|---------------|-------------------|----------------------|---------------|--------------------|----------------|
|        |             | Aktuell | Hersteller |               |                   |                      |               | FP25.01 Ka [m]     | FP25.02 Ka [m] |
| B01    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 11.958             | 11.965         |
| B02    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 11.617             | 11.622         |
| B03    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 11.445             | 11.452         |
| B04    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 10.262             | 10.267         |
| B05    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 9.966              | 9.970          |
| B06    | Existierend | Ja      | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 11.057             | 11.063         |
| B07    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.796              | 9.801          |
| B08    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.145             | 10.151         |
| B09    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.777             | 10.783         |
| B10    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.415             | 10.421         |
| B11    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.111             | 10.118         |
| B12    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.945              | 9.948          |
| B13    | Existierend | Ja      | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.694              | 9.697          |
| B14    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.618             | 11.625         |
| B15    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.173             | 11.180         |
| B16    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.663             | 11.671         |
| B17    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.384             | 11.393         |
| B18    | Existierend | Ja      | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 10.988             | 10.996         |

(Fortsetzung nächste Seite)...









## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP25, Lutheran, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|         |             | WEA-Typ |           | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|---------|-------------|---------|-----------|----------------------|-------------------|----------------------|---------------|--------------------|----------------|
| Aktuell | Hersteller  |         |           |                      |                   |                      |               | FP25.01 Ka [m]     | FP25.02 Ka [m] |
| WKA 4   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 16.109             | 16.111         |
| WKA 40  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 16.104             | 16.103         |
| WKA 41  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 15.866             | 15.866         |
| WKA 42  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 15.727             | 15.727         |
| WKA 43  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 15.664             | 15.665         |
| WKA 44  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 16.109             | 16.110         |
| WKA 46  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 15.271             | 15.271         |
| WKA 47  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 15.772             | 15.771         |
| WKA 48  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 16.093             | 16.093         |
| WKA 49  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 16.165             | 16.167         |
| WKA 5   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 15.903             | 15.904         |
| WKA 50  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 16.372             | 16.373         |
| WKA 51  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 16.579             | 16.581         |
| WKA 52  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 16.839             | 16.841         |
| WKA 53  | Existierend | Ja      | eno       | eno 82 2.05-2.050    | 2.050             | 82,4                 | 108,0         | 17.488             | 17.488         |
| WKA 54  | Existierend | Nein    | NEG MICON | NM72C/1500-1.500/400 | 1.500             | 72,0                 | 80,0          | 16.356             | 16.355         |
| WKA 55  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 16.411             | 16.410         |
| WKA 56  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 16.645             | 16.645         |
| WKA 57  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 16.881             | 16.881         |
| WKA 58  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 15.750             | 15.752         |
| WKA 59  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 113,5         | 16.026             | 16.028         |
| WKA 6   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 16.143             | 16.143         |
| WKA 60  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.882             | 14.882         |
| WKA 61  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 15.551             | 15.554         |
| WKA 62  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 15.338             | 15.340         |
| WKA 7   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 16.344             | 16.344         |
| WKA 8   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 16.556             | 16.557         |
| WKA 9   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 16.750             | 16.751         |



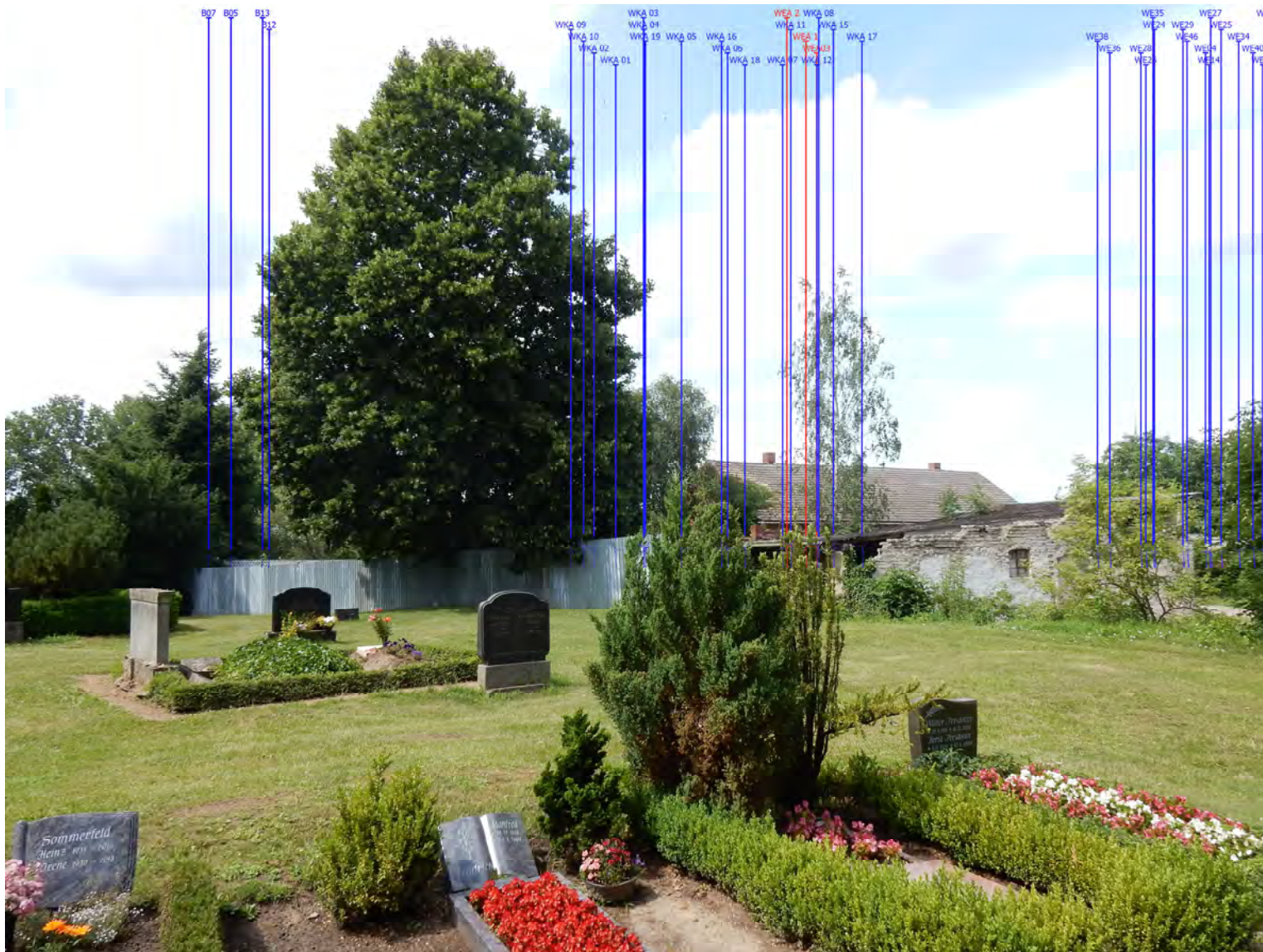
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

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 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 699.187 Nord: 5.927.289  
 Windrichtung: 0° Richtung des Fotos: 318°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP25.01 Ka FP25.01, Lutheran, Kirche, von Friedhof

Erzeugt von:  
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 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: 0108-Granzin WEA: 172

Empfohlener Betrachtungsabstand: 15 cm

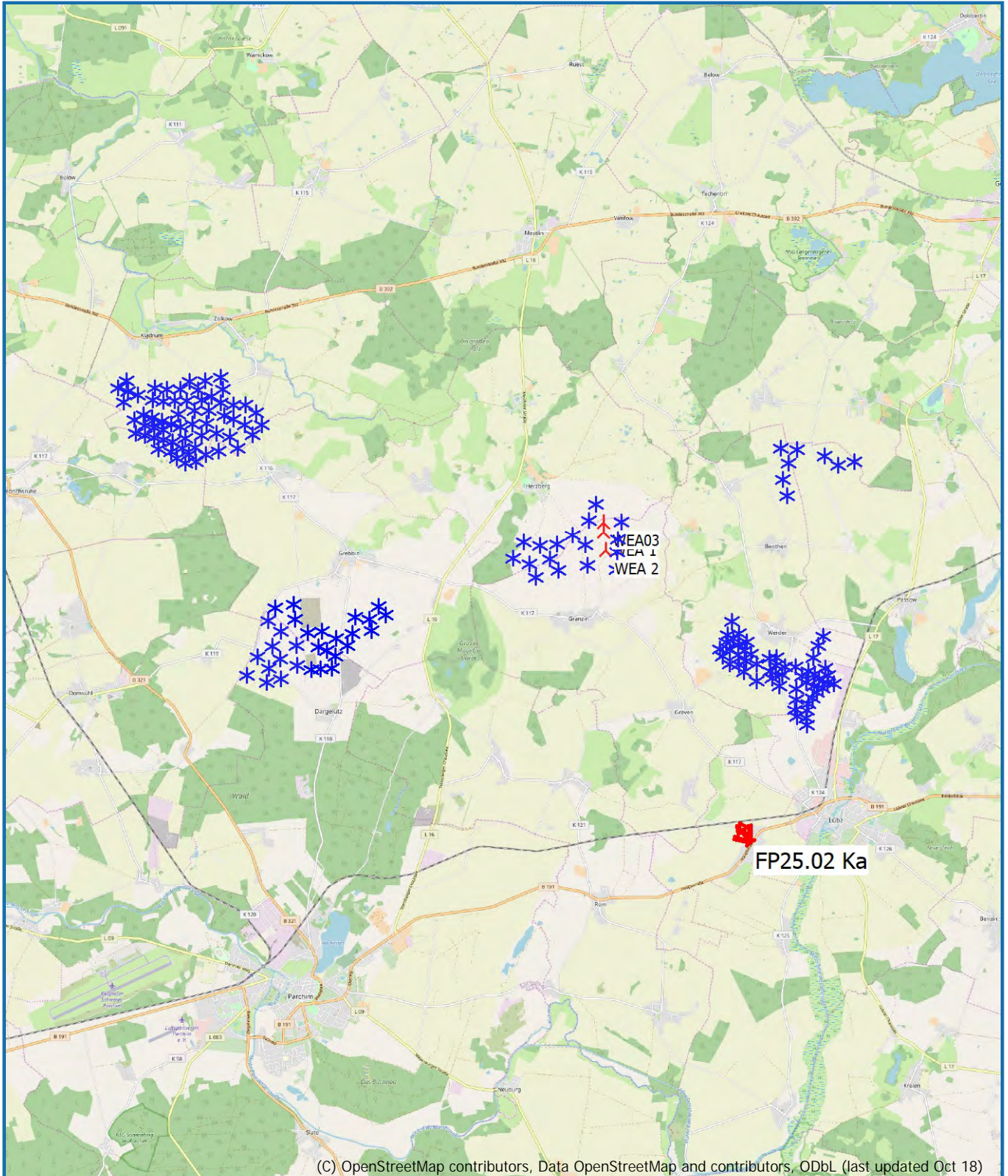
Fotoaufnahme: 13.07.2021 15:02:26  
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 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 699.205 Nord: 5.927.314  
 Windrichtung: 0° Richtung des Fotos: 324°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP25.02 Ka FP25.02, Lutheran, Kirche, von Friedhof

Erzeugt von:  
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 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP25, Lutheran, Kirche; 2022-08-24



0 2,5 5 7,5 10km

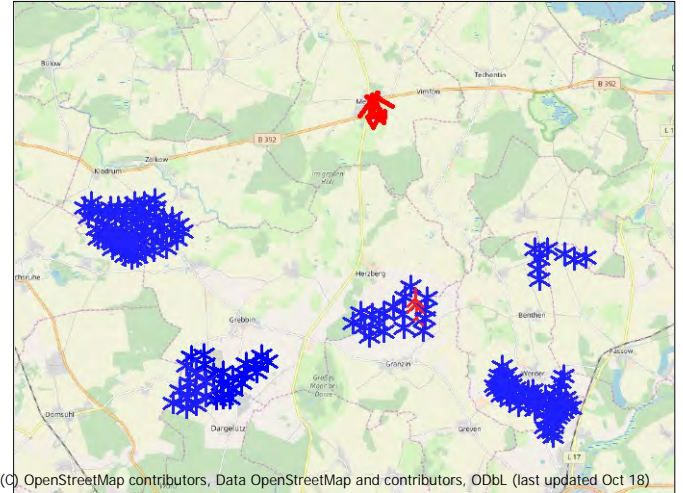
Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.932.282

Neue WEA \* Existierende WEA Kamera



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP26/27/28, Mestlin, Gutshaus/Kirche/Pfarrhaus; 2022-08-24



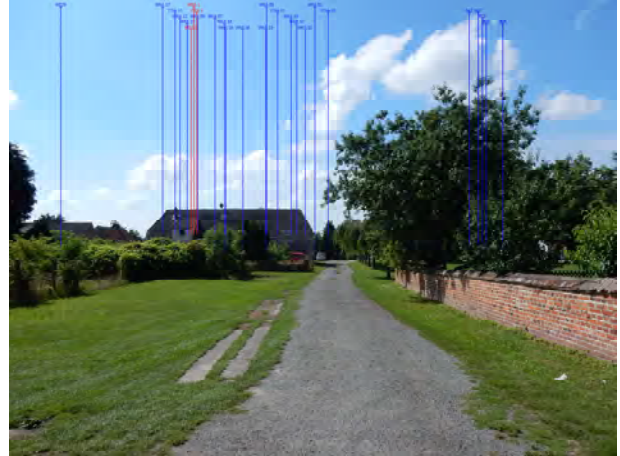
(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)  
 Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP26/27/28.01 Ka FP26/27/28.01, Mestlin, Gutshaus/Kirche/Pfarrhaus, von Friedhof



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken wenig bewölkt (2/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt: 693.924 5.940.924 61.5 Sichtbarkeits: Normal Geschichtsfeld: 68.3°x54.0° Brennweite: 26 mm Film: 35x26 mm  
 Zielpunkt: 693.924 5.940.919 69.0 Sonne Normal Geschichtsfeld: 68.3°x54.0° Brennweite: 26 mm Film: 35x26 mm  
 Foto-Richtung: 153° Windricht: 0° Fotobeschreibung: FP26/27/28.01 Ka FP26/27/28.01, Mestlin, Gutshaus/Kirche/Pfarrhaus, von Friedhof

FP26/27/28.02 Ka FP26/27/28.02, Mestlin, Gutshaus/Kirche/Pfarrhaus, vor Tor Friedhof



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken wenig bewölkt (2/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt: 693.924 5.940.924 61.5 Sichtbarkeits: Normal Geschichtsfeld: 68.3°x54.0° Brennweite: 26 mm Film: 35x26 mm  
 Zielpunkt: 693.924 5.940.919 69.1 Sonne Normal Geschichtsfeld: 67.3°x53.1° Brennweite: 26 mm Film: 35x26 mm  
 Foto-Richtung: 163° Windricht: 0° Fotobeschreibung: FP26/27/28.02 Ka FP26/27/28.02, Mestlin, Gutshaus/Kirche/Pfarrhaus, vor Tor Friedhof

## WEA-Platzierung

| ID  | Status      | Ja | Hersteller | Typ           | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera   |                      |
|-----|-------------|----|------------|---------------|-------------------|----------------------|---------------|----------------------|----------------------|
|     |             |    |            |               |                   |                      |               | FP26/27/28.01 Ka [m] | FP26/27/28.02 Ka [m] |
| B01 | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 10.508               | 10.451               |
| B02 | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 10.212               | 10.152               |
| B03 | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 10.488               | 10.427               |
| B04 | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 9.784                | 9.715                |
| B05 | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 108,3         | 9.701                | 9.630                |
| B06 | Existierend | Ja | ENERCON    | E-82-2.000    | 2.000             | 82,0                 | 78,3          | 10.594               | 10.530               |
| B07 | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.918                | 9.846                |
| B08 | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.140               | 10.070               |
| B09 | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.399               | 10.333               |
| B10 | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.413               | 10.345               |
| B11 | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 10.444               | 10.374               |
| B12 | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.357                | 9.285                |
| B13 | Existierend | Ja | ENERCON    | E-82 E2-2.300 | 2.300             | 82,0                 | 108,4         | 9.459                | 9.386                |
| B14 | Existierend | Ja | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 10.875               | 10.815               |
| B15 | Existierend | Ja | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 10.959               | 10.896               |
| B16 | Existierend | Ja | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.264               | 11.204               |
| B17 | Existierend | Ja | ENERCON    | E-70 E4-2.000 | 2.000             | 71,0                 | 85,0          | 11.416               | 11.354               |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP26/27/28, Mestlin, Gutshaus/Kirche/Pfarrhaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |               |
|------|-------------|------|------------|----------------------|--------------|-------------------|-----------|--------------------|---------------|
|      | Aktuell     |      |            |                      |              |                   |           | FP26/27/28.01      | FP26/27/28.02 |
|      |             |      |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]           |
| B18  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.358             | 11.293        |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.648             | 11.588        |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.722             | 11.660        |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.801             | 11.737        |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 12.125             | 12.066        |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 12.016             | 11.953        |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 10.829             | 10.771        |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 11.281             | 11.214        |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 11.171             | 11.103        |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 11.058             | 10.989        |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 10.763             | 10.694        |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 10.728             | 10.660        |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 10.754             | 10.688        |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 7.390              | 7.305         |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 7.742              | 7.657         |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 7.918              | 7.831         |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.244              | 8.156         |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 7.680              | 7.597         |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.247              | 8.166         |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.606              | 8.525         |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.850              | 8.770         |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.252             | 11.158        |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.380             | 11.285        |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 12.149             | 12.054        |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.657             | 10.562        |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 12.349             | 12.254        |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.843             | 11.749        |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.724             | 11.630        |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.466             | 11.371        |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.499             | 11.404        |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.486             | 11.392        |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.744             | 11.650        |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.923             | 11.829        |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.932             | 11.838        |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 10.874             | 10.778        |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 10.783             | 10.688        |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 11.034             | 10.938        |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 11.529             | 11.435        |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 11.350             | 11.257        |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 12.162             | 12.068        |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 12.009             | 11.916        |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 11.299             | 11.203        |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 10.864             | 10.769        |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 11.118             | 11.023        |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 10.475             | 10.379        |
| WE25 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 10.239             | 10.144        |
| WE26 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 10.779             | 10.683        |
| WE27 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 10.453             | 10.357        |
| WE28 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 10.288             | 10.192        |
| WE29 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 9.922              | 9.827         |
| WE30 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 10.489             | 10.394        |
| WE31 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 12.285             | 12.191        |
| WE32 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 12.077             | 11.983        |
| WE33 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 11.693             | 11.598        |
| WE34 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 11.051             | 10.955        |
| WE35 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 10.159             | 10.063        |
| WE36 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 10.547             | 10.451        |
| WE37 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 11.048             | 10.954        |
| WE38 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 10.389             | 10.293        |
| WE39 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 61,5      | 11.237             | 11.144        |
| WE40 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 73,8      | 10.632             | 10.536        |
| WE41 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900          | 52,0              | 73,8      | 12.776             | 12.681        |

(Fortsetzung nächste Seite)...



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP26/27/28, Mestlin, Gutshaus/Kirche/Pfarrhaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller |                | Typ                     | Nennleistung | Rotordurchmesser | Nabenhöhe | Abstand zur Kamera |                  |
|---------|-------------|------------|----------------|-------------------------|--------------|------------------|-----------|--------------------|------------------|
| Aktuell |             |            |                |                         | [kW]         | [m]              | [m]       | FP26/27/28.01 Ka   | FP26/27/28.02 Ka |
|         |             |            |                |                         |              |                  |           | [m]                | [m]              |
| WE42    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8      | 11.880             | 11.787           |
| WE43    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8      | 12.488             | 12.393           |
| WE44    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8      | 12.630             | 12.535           |
| WE45    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8      | 12.515             | 12.420           |
| WE46    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8      | 10.292             | 10.197           |
| WE47    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8      | 12.358             | 12.263           |
| WE48    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8      | 12.263             | 12.170           |
| WE49    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8      | 12.213             | 12.119           |
| WE50    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8      | 12.034             | 11.941           |
| WE51    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900          | 52,0             | 73,8      | 12.234             | 12.140           |
| WE52    | Existierend | Ja         | NORDEX         | N117/3600-3.600         | 3.600        | 116,8            | 140,6     | 11.362             | 11.266           |
| WEA 1   | Neu         | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0     | 7.072              | 6.976            |
| WEA 2   | Neu         | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0     | 7.497              | 7.402            |
| WEA03   | Neu         | Ja         | eno            | eno160-6.0MW_rev1-6.000 | 6.000        | 160,0            | 165,0     | 6.867              | 6.772            |
| WKA 01  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0     | 7.174              | 7.084            |
| WKA 02  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0     | 7.653              | 7.563            |
| WKA 03  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0     | 7.235              | 7.144            |
| WKA 04  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0     | 7.540              | 7.448            |
| WKA 05  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0     | 7.210              | 7.117            |
| WKA 06  | Existierend | Ja         | VESTAS         | V150-5.6-5.600          | 5.600        | 150,0            | 169,0     | 7.032              | 6.938            |
| WKA 07  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0     | 6.752              | 6.657            |
| WKA 08  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0     | 6.424              | 6.329            |
| WKA 09  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0     | 7.546              | 7.458            |
| WKA 1   | Existierend | Nein       | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5             | 64,7      | 9.469              | 9.445            |
| WKA 10  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0     | 7.958              | 7.867            |
| WKA 10  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 10.031             | 10.025           |
| WKA 11  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0     | 7.952              | 7.856            |
| WKA 11  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 10.216             | 10.212           |
| WKA 12  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 9.515              | 9.493            |
| WKA 12  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0            | 169,0     | 7.581              | 7.485            |
| WKA 13  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 9.633              | 9.613            |
| WKA 14  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 9.786              | 9.767            |
| WKA 15  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0     | 7.299              | 7.203            |
| WKA 15  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 9.940              | 9.922            |
| WKA 16  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0     | 7.754              | 7.659            |
| WKA 16  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 10.097             | 10.081           |
| WKA 17  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 10.255             | 10.241           |
| WKA 17  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0     | 6.939              | 6.843            |
| WKA 18  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0            | 161,0     | 7.301              | 7.206            |
| WKA 18  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 9.924              | 9.912            |
| WKA 19  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 9.775              | 9.762            |
| WKA 19  | Existierend | Ja         | VESTAS         | V162-6.0-6.000          | 6.000        | 162,0            | 169,0     | 7.810              | 7.717            |
| WKA 2   | Existierend | Nein       | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5             | 64,7      | 9.428              | 9.402            |
| WKA 2   | Existierend | Ja         | NORDEX         | N149/5.7-5.700          | 5.700        | 149,0            | 125,4     | 10.212             | 10.205           |
| WKA 20  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 9.861              | 9.854            |
| WKA 21  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750        | 66,0             | 67,0      | 7.997              | 7.985            |
| WKA 22  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750        | 66,0             | 67,0      | 8.072              | 8.057            |
| WKA 23  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750        | 66,0             | 67,0      | 8.033              | 8.013            |
| WKA 24  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750        | 66,0             | 67,0      | 7.788              | 7.766            |
| WKA 25  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750        | 66,0             | 67,0      | 7.702              | 7.678            |
| WKA 26  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0             | 85,0      | 9.260              | 9.236            |
| WKA 27  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0             | 85,0      | 9.007              | 8.985            |
| WKA 28  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0             | 85,0      | 9.152              | 9.126            |
| WKA 29  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0             | 85,0      | 8.759              | 8.739            |
| WKA 3   | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600          | 46,0             | 60,0      | 9.612              | 9.597            |
| WKA 30  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0             | 85,0      | 8.574              | 8.556            |
| WKA 31  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0             | 85,0      | 8.490              | 8.460            |
| WKA 32  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0             | 85,0      | 8.472              | 8.446            |
| WKA 33  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0             | 85,0      | 8.685              | 8.662            |
| WKA 34  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0             | 85,0      | 8.038              | 8.009            |
| WKA 35  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0             | 85,0      | 7.739              | 7.711            |
| WKA 36  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000        | 71,0             | 85,0      | 8.044              | 8.019            |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP26/27/28, Mestlin, Gutshaus/Kirche/Pfarrhaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WKA    | Typ         | WEA-Typ |            | Hersteller           | Typ   | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |               |
|--------|-------------|---------|------------|----------------------|-------|--------------|-------------------|-----------|--------------------|---------------|
|        |             | Aktuell | Hersteller |                      |       |              |                   |           | FP26/27/28.01      | FP26/27/28.02 |
|        |             |         |            |                      |       | [kW]         | [m]               | [m]       | [m]                | [m]           |
| WKA 37 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000 | 71,0         | 85,0              | 8,201     | 8,178              |               |
| WKA 38 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000 | 71,0         | 85,0              | 8,254     | 8,237              |               |
| WKA 39 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000 | 71,0         | 85,0              | 8,604     | 8,590              |               |
| WKA 4  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600   | 46,0         | 60,0              | 9,464     | 9,448              |               |
| WKA 40 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000 | 71,0         | 85,0              | 8,346     | 8,335              |               |
| WKA 41 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000 | 71,0         | 85,0              | 8,869     | 8,853              |               |
| WKA 42 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000 | 71,0         | 85,0              | 9,053     | 9,035              |               |
| WKA 43 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000 | 71,0         | 85,0              | 9,345     | 9,325              |               |
| WKA 44 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000 | 71,0         | 85,0              | 9,210     | 9,195              |               |
| WKA 46 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300 | 131,0        | 164,0             | 8,322     | 8,301              |               |
| WKA 47 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300 | 131,0        | 164,0             | 8,370     | 8,355              |               |
| WKA 48 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300 | 131,0        | 164,0             | 8,583     | 8,571              |               |
| WKA 49 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300 | 71,0         | 113,5             | 9,677     | 9,661              |               |
| WKA 5  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600   | 46,0         | 60,0              | 9,321     | 9,303              |               |
| WKA 50 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300 | 71,0         | 113,5             | 9,840     | 9,824              |               |
| WKA 51 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300 | 71,0         | 113,5             | 10,005    | 9,991              |               |
| WKA 52 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300 | 71,0         | 113,5             | 10,160    | 10,148             |               |
| WKA 53 | Existierend | Ja      | eno        | eno 82 2.05-2.050    | 2.050 | 82,4         | 108,0             | 9,968     | 9,964              |               |
| WKA 54 | Existierend | Nein    | NEG MICON  | NM72C/1500-1.500/400 | 1.500 | 72,0         | 80,0              | 8,662     | 8,653              |               |
| WKA 55 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200 | 92,8         | 103,0             | 8,932     | 8,922              |               |
| WKA 56 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200 | 92,8         | 103,0             | 9,199     | 9,190              |               |
| WKA 57 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200 | 92,8         | 103,0             | 9,444     | 9,437              |               |
| WKA 58 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300 | 71,0         | 113,5             | 9,781     | 9,760              |               |
| WKA 59 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000 | 71,0         | 113,5             | 9,985     | 9,965              |               |
| WKA 6  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600   | 46,0         | 60,0              | 8,910     | 8,897              |               |
| WKA 60 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000 | 71,0         | 85,0              | 8,879     | 8,852              |               |
| WKA 61 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300 | 71,0         | 113,5             | 9,742     | 9,718              |               |
| WKA 62 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300 | 71,0         | 113,5             | 9,638     | 9,612              |               |
| WKA 7  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600   | 46,0         | 60,0              | 9,144     | 9,132              |               |
| WKA 8  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600   | 46,0         | 60,0              | 9,390     | 9,379              |               |
| WKA 9  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600   | 46,0         | 60,0              | 9,595     | 9,585              |               |





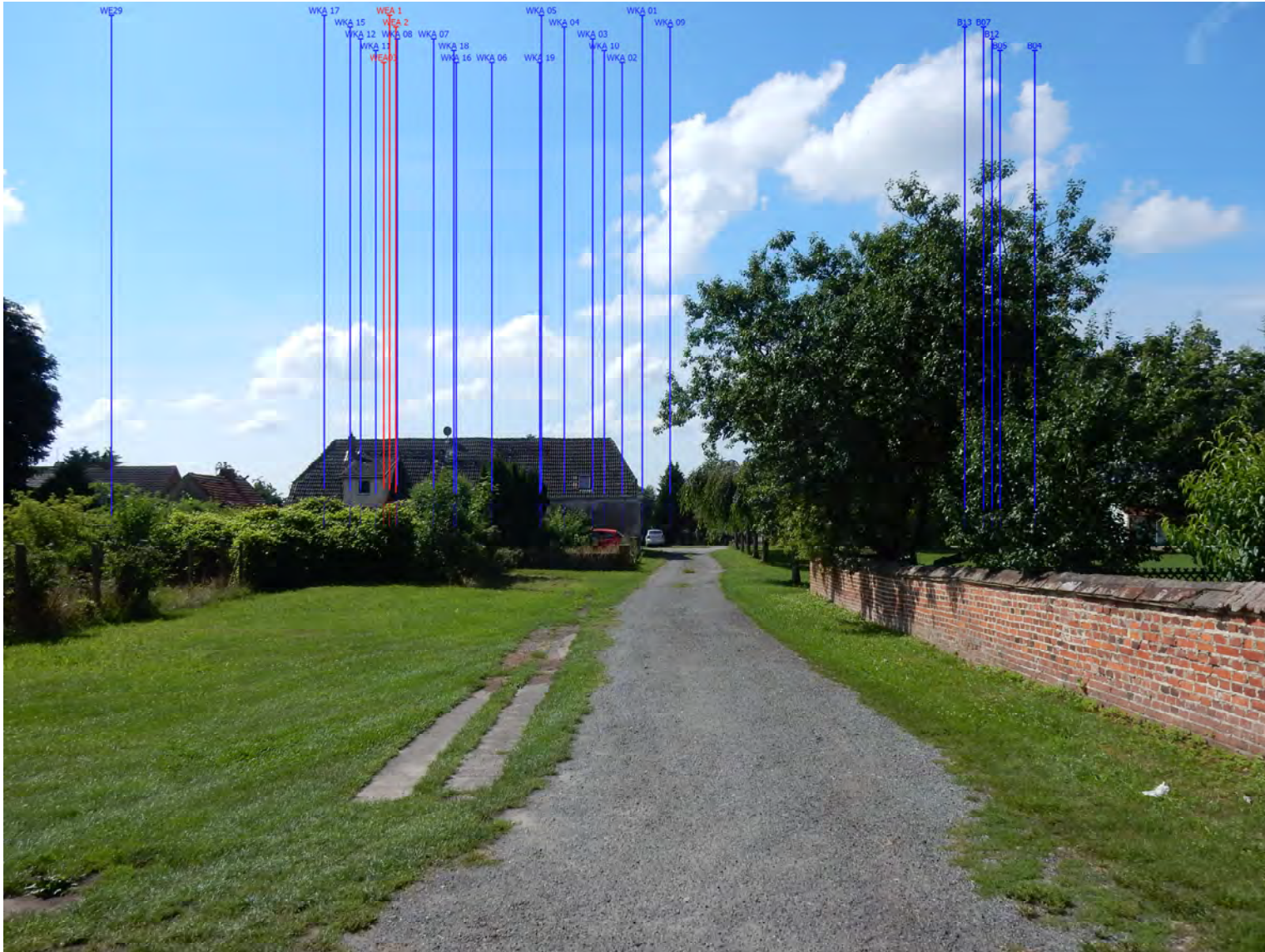
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 11:14:22  
 Gesichtsfeld: 68,3°x54,0° Brennweite: 26 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 693.892 Nord: 5.941.016  
 Windrichtung: 0° Richtung des Fotos: 153°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP26/27/28.01 Ka FP26/27/28.01, Mestlin, Gutshaus/Kirche/Pfarrhaus, von Friedhof

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 11:17:48  
 Gesichtsfeld: 67,3°x53,1° Brennweite: 26 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 693.926 Nord: 5.940.926  
 Windrichtung: 0° Richtung des Fotos: 183°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP26/27/28.02 Ka FP26/27/28.02, Mestlin, Gutshaus/Kirche/Pfarrhaus, vor Tor Friedhof

Erzeugt von:  
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 Straße am Zeltplatz 7  
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 Raimund Wörl / raimund.woerl@eno-site.com





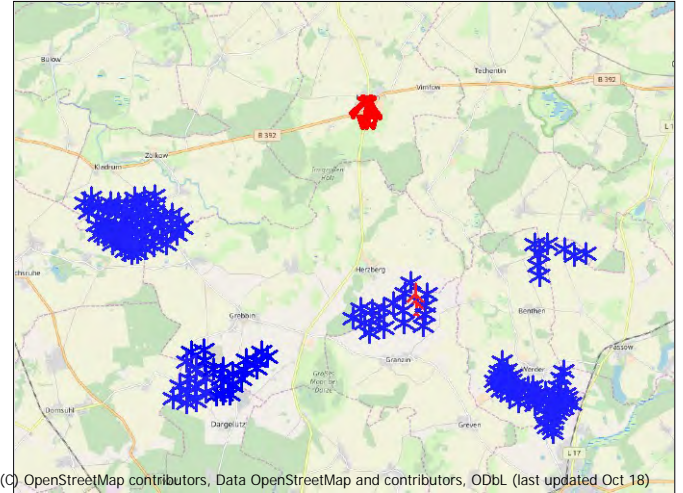


Projekt: 0108-Granzin Beschreibung: Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender: enosite GmbH  
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 DE-18230 Ostseebad Rerik  
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 Raimund Woerl / raimund.woerl@eno-site.com  
 Berechnet: 25.08.2022 12:25/3.5.584

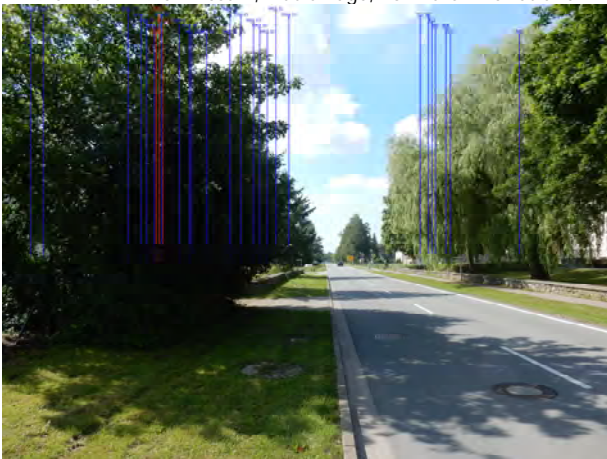
## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP29, Mestlin, Platzanlage; 2022-08-24



Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP29.01 Ka FP29.01 Mestlin, Platzanlage, von Parchimer Straße



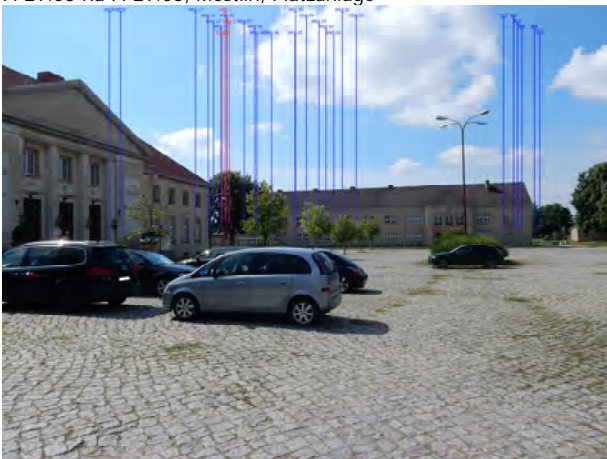
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 Kamerapunkt    693.775    5.940.778    61.5    Sichtbarkeit    :Normal    DSCN4794.JPG  
 Zielpunkt    693.743    5.940.313    94.6    Sonne    :Normal    Gesichtsfeld: 71,9°x57,1°    Brennweite: 24 mm Film: 35x26 mm  
 Foto-Richtung    186°    Windricht.    :0°    Fotobeschreibung: FP29.01 Ka FP29.01 Mestlin, Platzanlage, von Parchimer Straße

FP29.02 Ka FP29.02, Mestlin, Platzanlage, von Wiese vor Kulturhaus



UTM (north)-ETRS89 Zone: 32    Ost    Nord    Z    Wolken    :wenig bewölkt (2/8)    Foto-Datei im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt    693.762    5.940.774    61.5    Sichtbarkeit    :Normal    DSCN4798.JPG  
 Zielpunkt    693.729    5.940.639    71.6    Sonne    :Normal    Gesichtsfeld: 67,3°x53,1°    Brennweite: 26 mm Film: 35x26 mm  
 Foto-Richtung    196°    Windricht.    :0°    Fotobeschreibung: FP29.02 Ka FP29.02, Mestlin, Platzanlage, von Wiese vor Kulturhaus

FP29.03 Ka FP29.03, Mestlin, Platzanlage



UTM (north)-ETRS89 Zone: 32    Ost    Nord    Z    Wolken    :wenig bewölkt (2/8)    Foto-Datei im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt    693.686    5.940.782    61.5    Sichtbarkeit    :Normal    DSCN4802\_bearbeitet.jpg  
 Zielpunkt    693.697    5.940.669    63.0    Sonne    :Normal    Gesichtsfeld: 69,4°x54,9°    Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung    177°    Windricht.    :0°    Fotobeschreibung: FP29.03 Ka FP29.03, Mestlin, Platzanlage



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP29, Mestlin, Platzanlage; 2022-08-24

### WEA-Platzierung

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |            |
|------|-------------|------|------------|----------------------|--------------|-------------------|-----------|--------------------|------------|------------|
|      | Aktuell     |      |            |                      |              |                   |           | FP29.01 Ka         | FP29.02 Ka | FP29.03 Ka |
|      |             |      |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]        |
| B01  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 10.245             | 10.234     | 10.201     |
| B02  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 9.947              | 9.937      | 9.906      |
| B03  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 10.223             | 10.214     | 10.184     |
| B04  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 9.520              | 9.511      | 9.490      |
| B05  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 9.437              | 9.429      | 9.410      |
| B06  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 10.328             | 10.319     | 10.292     |
| B07  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 9.655              | 9.647      | 9.629      |
| B08  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 9.875              | 9.867      | 9.847      |
| B09  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 10.134             | 10.125     | 10.100     |
| B10  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 10.148             | 10.139     | 10.117     |
| B11  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 10.180             | 10.172     | 10.151     |
| B12  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 9.093              | 9.085      | 9.067      |
| B13  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 9.196              | 9.188      | 9.172      |
| B14  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 10.610             | 10.601     | 10.570     |
| B15  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 10.694             | 10.685     | 10.657     |
| B16  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.000             | 10.990     | 10.959     |
| B17  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.151             | 11.142     | 11.113     |
| B18  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.092             | 11.083     | 11.057     |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.383             | 11.373     | 11.342     |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.457             | 11.447     | 11.418     |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.535             | 11.526     | 11.499     |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.861             | 11.851     | 11.820     |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.751             | 11.741     | 11.713     |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 10.565             | 10.555     | 10.522     |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 11.016             | 11.007     | 10.984     |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 10.906             | 10.898     | 10.875     |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 10.794             | 10.785     | 10.764     |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 10.498             | 10.490     | 10.468     |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 10.463             | 10.454     | 10.431     |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 10.489             | 10.480     | 10.455     |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 7.328              | 7.335      | 7.400      |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 7.675              | 7.683      | 7.747      |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 7.840              | 7.847      | 7.910      |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.160              | 8.167      | 8.228      |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 7.626              | 7.634      | 7.700      |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.202              | 8.210      | 8.278      |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.562              | 8.571      | 8.638      |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 8.814              | 8.823      | 8.891      |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.108             | 11.112     | 11.159     |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.239             | 11.243     | 11.291     |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 12.006             | 12.009     | 12.057     |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 10.500             | 10.503     | 10.547     |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 12.203             | 12.207     | 12.253     |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.712             | 11.716     | 11.767     |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.592             | 11.596     | 11.646     |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.318             | 11.322     | 11.368     |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.355             | 11.359     | 11.407     |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.350             | 11.354     | 11.404     |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.608             | 11.613     | 11.662     |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.787             | 11.791     | 11.841     |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 11.791             | 11.795     | 11.843     |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 10.715             | 10.718     | 10.761     |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 10.632             | 10.635     | 10.680     |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 10.883             | 10.886     | 10.932     |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 11.401             | 11.406     | 11.458     |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 11.228             | 11.233     | 11.286     |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 12.034             | 12.038     | 12.090     |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 11.879             | 11.883     | 11.934     |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 60,0      | 11.151             | 11.155     | 11.201     |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 10.710             | 10.713     | 10.757     |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 10.976             | 10.980     | 11.028     |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 10.316             | 10.318     | 10.361     |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP29, Mestlin, Platzanlage; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      |                |                         | Abstand zur Kamera |            |            |            |        |        |
|---------|-------------|------|----------------|-------------------------|--------------------|------------|------------|------------|--------|--------|
| Aktuell | Hersteller  | Typ  | Nennleistung   | Rotor-durchmesser       | Nabenhöhe          | FP29.01 Ka | FP29.02 Ka | FP29.03 Ka |        |        |
|         |             |      | [kW]           | [m]                     | [m]                | [m]        | [m]        | [m]        | [m]    | [m]    |
| WE25    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 10.087     | 10.090 | 10.135 |
| WE26    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 10.617     | 10.619 | 10.662 |
| WE27    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 10.298     | 10.301 | 10.345 |
| WE28    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 10.129     | 10.131 | 10.174 |
| WE29    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 9.770      | 9.773  | 9.818  |
| WE30    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 10.339     | 10.342 | 10.387 |
| WE31    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 12.148     | 12.152 | 12.201 |
| WE32    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 11.943     | 11.947 | 11.997 |
| WE33    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 11.546     | 11.550 | 11.596 |
| WE34    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 10.893     | 10.896 | 10.940 |
| WE35    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 10.001     | 10.004 | 10.048 |
| WE36    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 10.384     | 10.386 | 10.428 |
| WE37    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 10.904     | 10.907 | 10.954 |
| WE38    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 10.226     | 10.228 | 10.270 |
| WE39    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 61,5       | 11.119     | 11.124 | 11.178 |
| WE40    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 10.479     | 10.482 | 10.527 |
| WE41    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 12.631     | 12.635 | 12.682 |
| WE42    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 11.755     | 11.759 | 11.811 |
| WE43    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 12.346     | 12.350 | 12.398 |
| WE44    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 12.486     | 12.490 | 12.537 |
| WE45    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 12.369     | 12.372 | 12.419 |
| WE46    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 10.137     | 10.140 | 10.184 |
| WE47    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 12.218     | 12.222 | 12.271 |
| WE48    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 12.137     | 12.142 | 12.194 |
| WE49    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 12.082     | 12.086 | 12.137 |
| WE50    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 11.908     | 11.913 | 11.965 |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900                | 52,0       | 73,8       | 12.100     | 12.104 | 12.154 |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600              | 116,8      | 140,6      | 11.207     | 11.210 | 11.255 |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0      | 161,0      | 6.871      | 6.871  | 6.900  |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0      | 161,0      | 7.295      | 7.295  | 7.324  |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000              | 160,0      | 165,0      | 6.667      | 6.667  | 6.697  |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0      | 169,0      | 6.935      | 6.931  | 6.941  |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0      | 169,0      | 7.417      | 7.414  | 7.425  |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0      | 169,0      | 7.003      | 7.000  | 7.014  |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0      | 169,0      | 7.311      | 7.309  | 7.324  |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0      | 169,0      | 6.985      | 6.983  | 7.000  |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600              | 150,0      | 169,0      | 6.815      | 6.813  | 6.835  |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0      | 169,0      | 6.544      | 6.543  | 6.569  |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0      | 169,0      | 6.222      | 6.222  | 6.251  |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0      | 169,0      | 7.304      | 7.300  | 7.307  |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500              | 70,5       | 64,7       | 9.237      | 9.224  | 9.167  |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0      | 169,0      | 7.724      | 7.721  | 7.733  |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0       | 60,0       | 9.827      | 9.814  | 9.748  |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0      | 169,0      | 7.753      | 7.753  | 7.783  |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0       | 60,0       | 10.015     | 10.002 | 9.935  |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0       | 60,0       | 9.285      | 9.272  | 9.214  |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600              | 162,0      | 169,0      | 7.385      | 7.385  | 7.416  |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0       | 60,0       | 9.406      | 9.393  | 9.333  |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0       | 60,0       | 9.561      | 9.548  | 9.488  |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0      | 161,0      | 7.105      | 7.105  | 7.137  |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0       | 60,0       | 9.717      | 9.704  | 9.643  |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0      | 161,0      | 7.542      | 7.541  | 7.565  |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0       | 60,0       | 9.877      | 9.864  | 9.802  |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0       | 60,0       | 10.037     | 10.024 | 9.962  |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0      | 161,0      | 6.750      | 6.751  | 6.784  |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500              | 158,0      | 161,0      | 7.089      | 7.088  | 7.113  |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0       | 60,0       | 9.710      | 9.697  | 9.633  |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0       | 60,0       | 9.559      | 9.546  | 9.483  |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000              | 162,0      | 169,0      | 7.585      | 7.583  | 7.600  |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500              | 70,5       | 64,7       | 9.193      | 9.180  | 9.124  |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700              | 149,0      | 125,4      | 10.006     | 9.992  | 9.927  |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600                | 46,0       | 60,0       | 9.655      | 9.642  | 9.576  |

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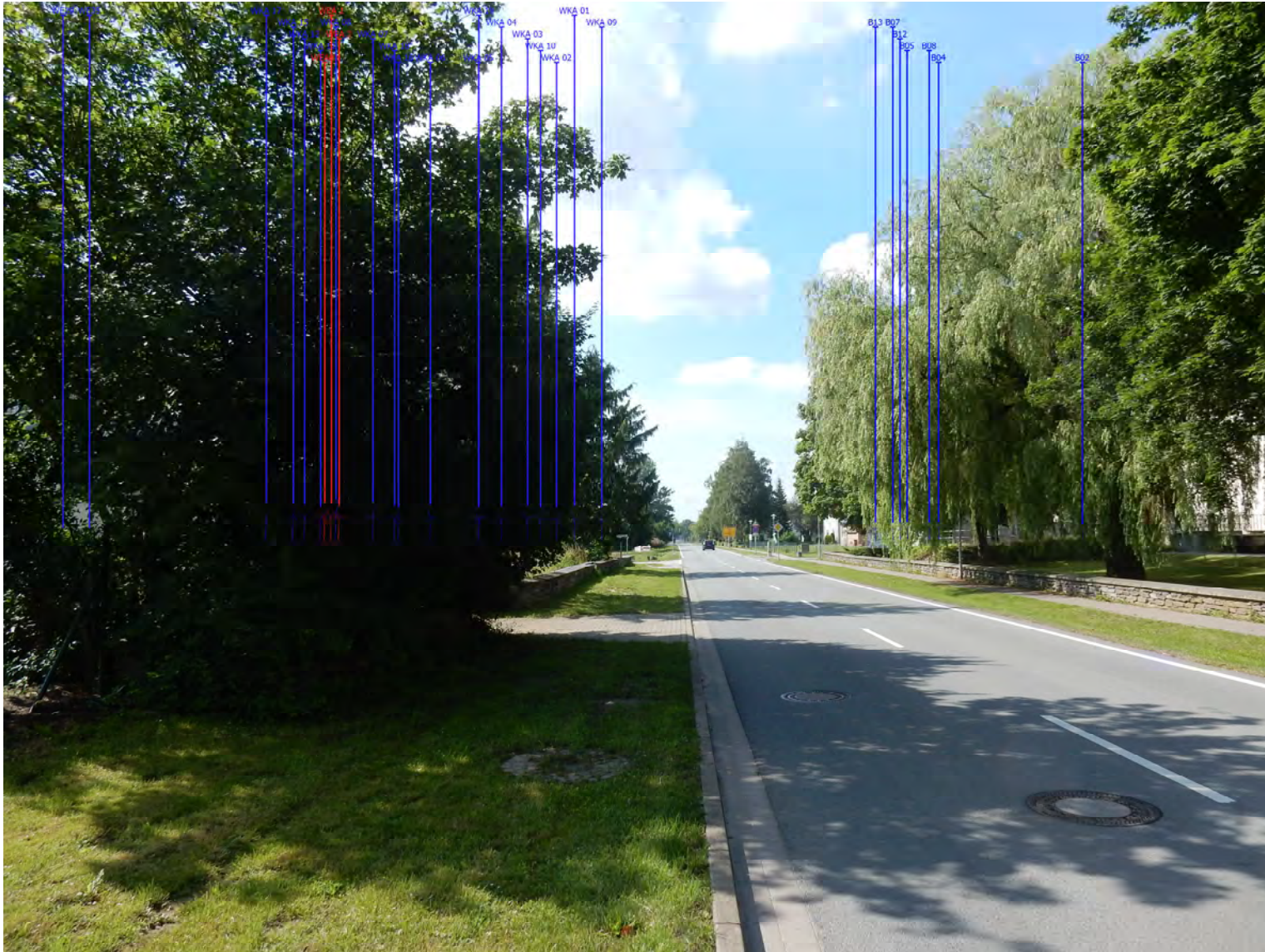


## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP29, Mestlin, Platzanlage; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|        |             | WEA-Typ |            | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |            |
|--------|-------------|---------|------------|----------------------|--------------|-------------------|-----------|--------------------|------------|------------|
| WKA    | Existierend | Aktuell | Hersteller |                      |              |                   |           | FP29.01 Ka         | FP29.02 Ka | FP29.03 Ka |
|        |             |         |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]        |
| WKA 21 | Existierend | Nein    | VESTAS     | V66-1.750            | 1.750        | 66,0              | 67,0      | 7.783              | 7.770      | 7.706      |
| WKA 22 | Existierend | Nein    | VESTAS     | V66-1.750            | 1.750        | 66,0              | 67,0      | 7.854              | 7.840      | 7.778      |
| WKA 23 | Existierend | Nein    | VESTAS     | V66-1.750            | 1.750        | 66,0              | 67,0      | 7.807              | 7.794      | 7.734      |
| WKA 24 | Existierend | Nein    | VESTAS     | V66-1.750            | 1.750        | 66,0              | 67,0      | 7.559              | 7.546      | 7.487      |
| WKA 25 | Existierend | Nein    | VESTAS     | V66-1.750            | 1.750        | 66,0              | 67,0      | 7.469              | 7.456      | 7.399      |
| WKA 26 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.028              | 9.015      | 8.958      |
| WKA 27 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.777              | 8.764      | 8.706      |
| WKA 28 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.916              | 8.904      | 8.847      |
| WKA 29 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.532              | 8.519      | 8.460      |
| WKA 3  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 9.393              | 9.380      | 9.318      |
| WKA 30 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.350              | 8.337      | 8.276      |
| WKA 31 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.250              | 8.238      | 8.183      |
| WKA 32 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.237              | 8.224      | 8.168      |
| WKA 33 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.454              | 8.441      | 8.383      |
| WKA 34 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.799              | 7.786      | 7.731      |
| WKA 35 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.502              | 7.489      | 7.434      |
| WKA 36 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.810              | 7.797      | 7.740      |
| WKA 37 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 7.970              | 7.957      | 7.899      |
| WKA 38 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.031              | 8.018      | 7.957      |
| WKA 39 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.386              | 8.373      | 8.311      |
| WKA 4  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 9.243              | 9.230      | 9.169      |
| WKA 40 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.134              | 8.121      | 8.057      |
| WKA 41 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.648              | 8.635      | 8.573      |
| WKA 42 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.829              | 8.815      | 8.755      |
| WKA 43 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 9.118              | 9.105      | 9.046      |
| WKA 44 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.991              | 8.978      | 8.916      |
| WKA 46 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300        | 131,0             | 164,0     | 8.094              | 8.081      | 8.022      |
| WKA 47 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300        | 131,0             | 164,0     | 8.151              | 8.138      | 8.075      |
| WKA 48 | Existierend | Ja      | NORDEX     | N131/3300 DE-3.300   | 3.300        | 131,0             | 164,0     | 8.369              | 8.356      | 8.292      |
| WKA 49 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.456              | 9.443      | 9.381      |
| WKA 5  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 9.098              | 9.085      | 9.024      |
| WKA 50 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.620              | 9.607      | 9.545      |
| WKA 51 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.788              | 9.775      | 9.712      |
| WKA 52 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.946              | 9.933      | 9.870      |
| WKA 53 | Existierend | Ja      | eno        | eno 82 2.05-2.050    | 2.050        | 82,4              | 108,0     | 9.768              | 9.755      | 9.688      |
| WKA 54 | Existierend | Nein    | NEG MICON  | NM72C/1500-1.500/400 | 1.500        | 72,0              | 80,0      | 8.453              | 8.439      | 8.374      |
| WKA 55 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 8.721              | 8.708      | 8.644      |
| WKA 56 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 8.990              | 8.977      | 8.912      |
| WKA 57 | Existierend | Ja      | eno        | eno 92 2.2-2.200     | 2.200        | 92,8              | 103,0     | 9.238              | 9.224      | 9.159      |
| WKA 58 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.552              | 9.539      | 9.480      |
| WKA 59 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 113,5     | 9.759              | 9.746      | 9.686      |
| WKA 6  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 8.694              | 8.681      | 8.618      |
| WKA 60 | Existierend | Nein    | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 8.642              | 8.629      | 8.574      |
| WKA 61 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.510              | 9.497      | 9.440      |
| WKA 62 | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 113,5     | 9.403              | 9.391      | 9.334      |
| WKA 7  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 8.930              | 8.916      | 8.853      |
| WKA 8  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 9.177              | 9.164      | 9.100      |
| WKA 9  | Existierend | Nein    | TACKE      | TW 600e-600/200      | 600          | 46,0              | 60,0      | 9.384              | 9.371      | 9.306      |



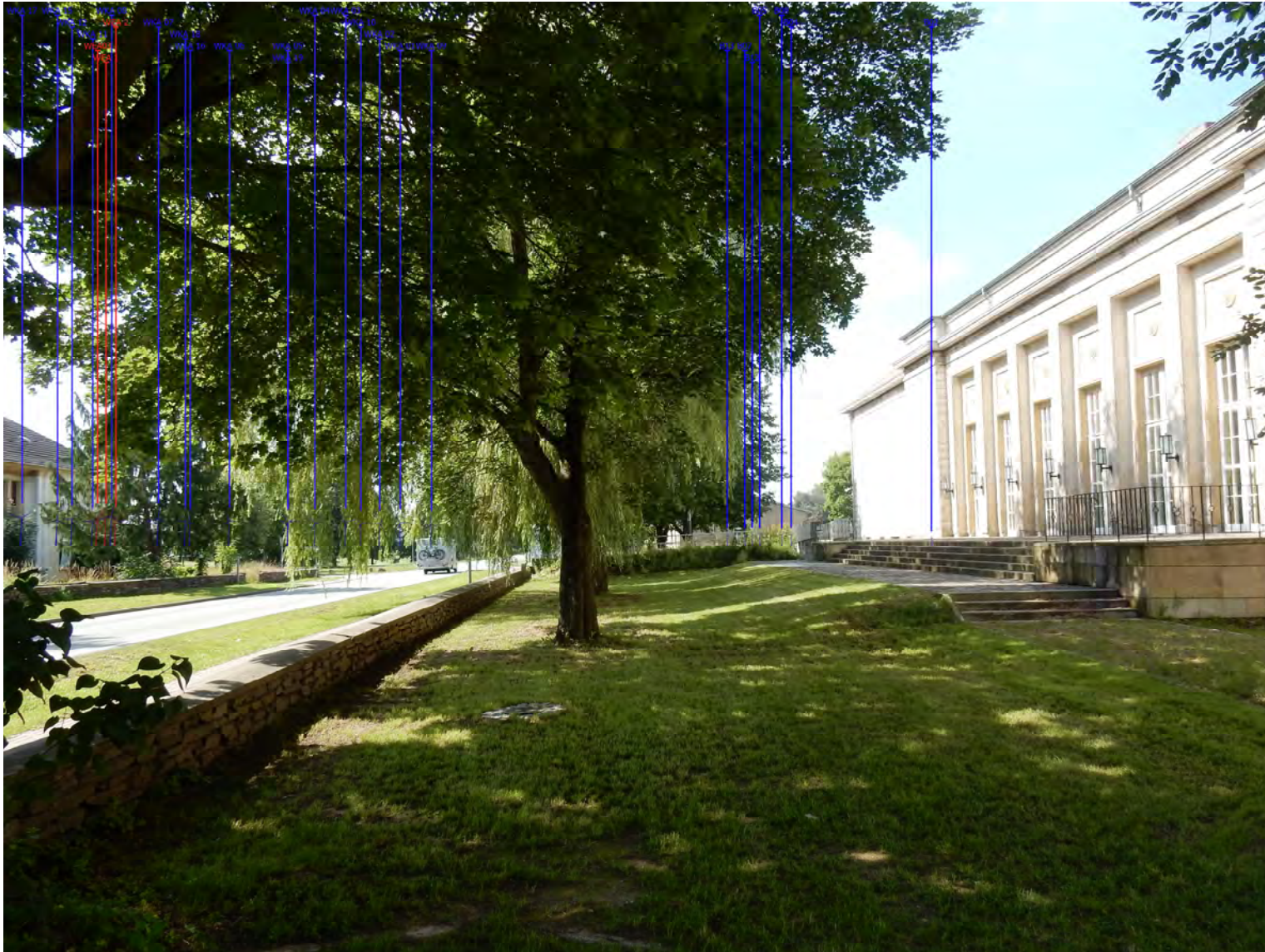
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 14 cm**

Fotoaufnahme: 13.07.2021 11:00:08  
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 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 693.775 Nord: 5.940.778  
 Windrichtung: 0° Richtung des Fotos: 186°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP29.01 Ka FP29.01 Mestlin, Platzanlage, von Parchimer Straße

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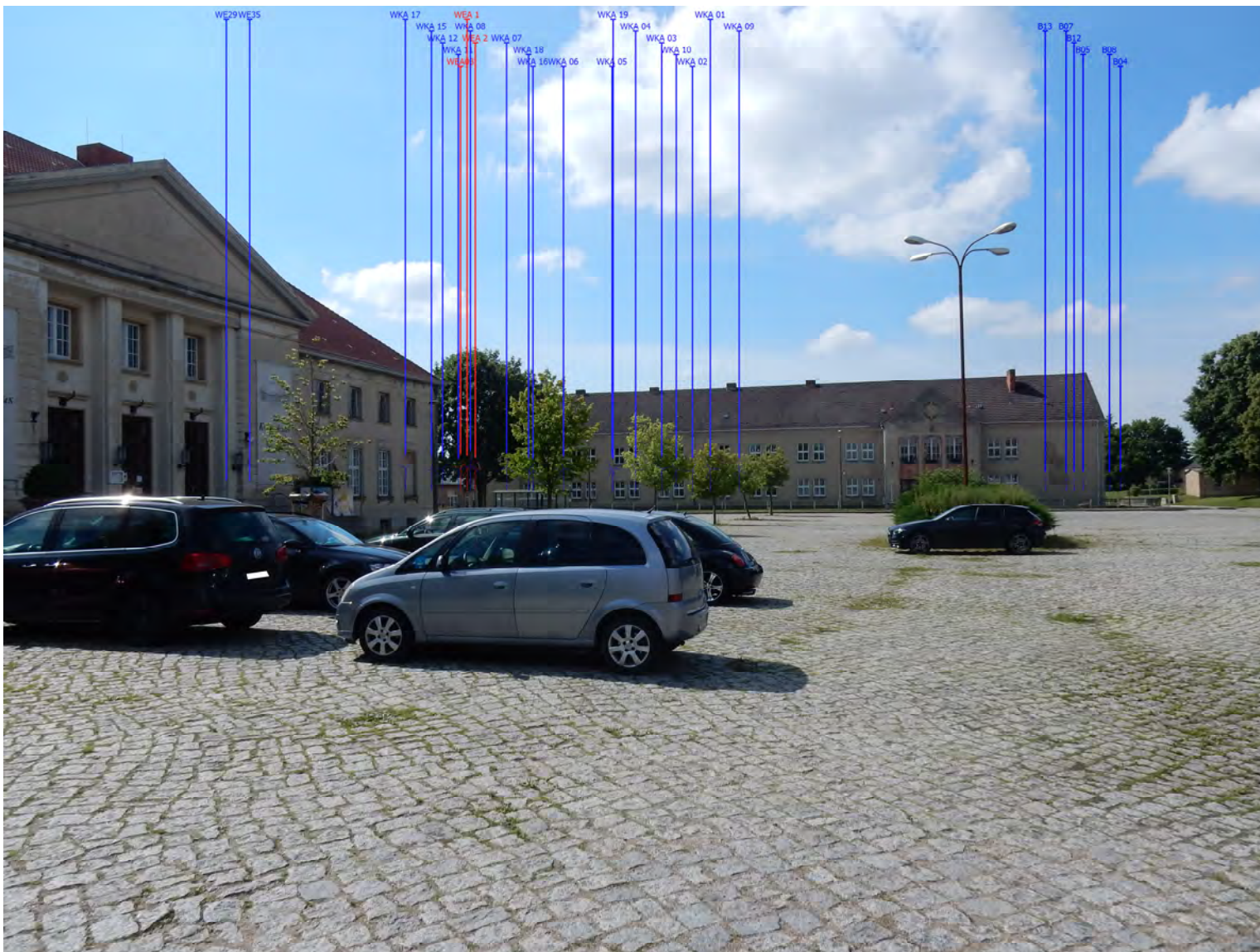
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 11:01:00  
 Gesichtsfeld: 67,3°x53,1° Brennweite: 26 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 693.762 Nord: 5.940.774  
 Windrichtung: 0° Richtung des Fotos: 196°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP29.02 Ka FP29.02, Mestlin, Platzanlage, von Wiese vor Kulturhaus

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Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 11:02:53  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 693.686 Nord: 5.940.783  
 Windrichtung: 0° Richtung des Fotos: 177°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP29.03 Ka FP29.03, Mestlin, Platzanlage

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## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP30, Mühlenhof, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|------|-------------|------|------------|----------------------|-------------------|----------------------|---------------|--------------------|----------------|
|      | Aktuell     |      |            |                      |                   |                      |               | FP30.01 Ka [m]     | FP30.02 Ka [m] |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 10.486             | 10.542         |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 10.450             | 10.506         |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 10.419             | 10.475         |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 10.933             | 10.989         |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 10.694             | 10.750         |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 9.789              | 9.845          |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 9.774              | 9.830          |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 9.613              | 9.669          |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 9.437              | 9.493          |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 9.175              | 9.231          |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 9.209              | 9.265          |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 9.302              | 9.358          |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 4.135              | 4.116          |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 4.445              | 4.429          |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 4.546              | 4.534          |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 4.834              | 4.825          |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 4.478              | 4.457          |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 5.098              | 5.076          |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 5.455              | 5.434          |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 5.763              | 5.739          |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.682              | 7.697          |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.809              | 7.822          |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.578              | 8.592          |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.103              | 7.123          |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.780              | 8.795          |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.275              | 8.285          |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.155              | 8.166          |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.899              | 7.915          |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.928              | 7.943          |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.916              | 7.928          |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.174              | 8.186          |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.353              | 8.364          |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.361              | 8.375          |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.322              | 7.342          |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.220              | 7.237          |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.470              | 7.487          |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.965              | 7.974          |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.794              | 7.801          |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 8.597              | 8.606          |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 8.442              | 8.452          |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 60,0          | 7.731              | 7.746          |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 7.306              | 7.324          |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 7.547              | 7.561          |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 6.926              | 6.947          |
| WE25 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.677              | 6.695          |
| WE26 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.236              | 7.257          |
| WE27 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.895              | 6.914          |
| WE28 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.739              | 6.760          |
| WE29 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.362              | 6.380          |
| WE30 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.925              | 6.943          |
| WE31 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 8.714              | 8.726          |
| WE32 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 8.507              | 8.518          |
| WE33 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 8.124              | 8.140          |
| WE34 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.498              | 7.518          |
| WE35 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.606              | 6.626          |
| WE36 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.008              | 7.030          |
| WE37 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.479              | 7.494          |
| WE38 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.851              | 6.873          |
| WE39 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.688              | 7.694          |
| WE40 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 7.071              | 7.089          |
| WE41 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 9.205              | 9.220          |
| WE42 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 8.318              | 8.327          |
| WE43 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 8.917              | 8.931          |

(Fortsetzung nächste Seite)...



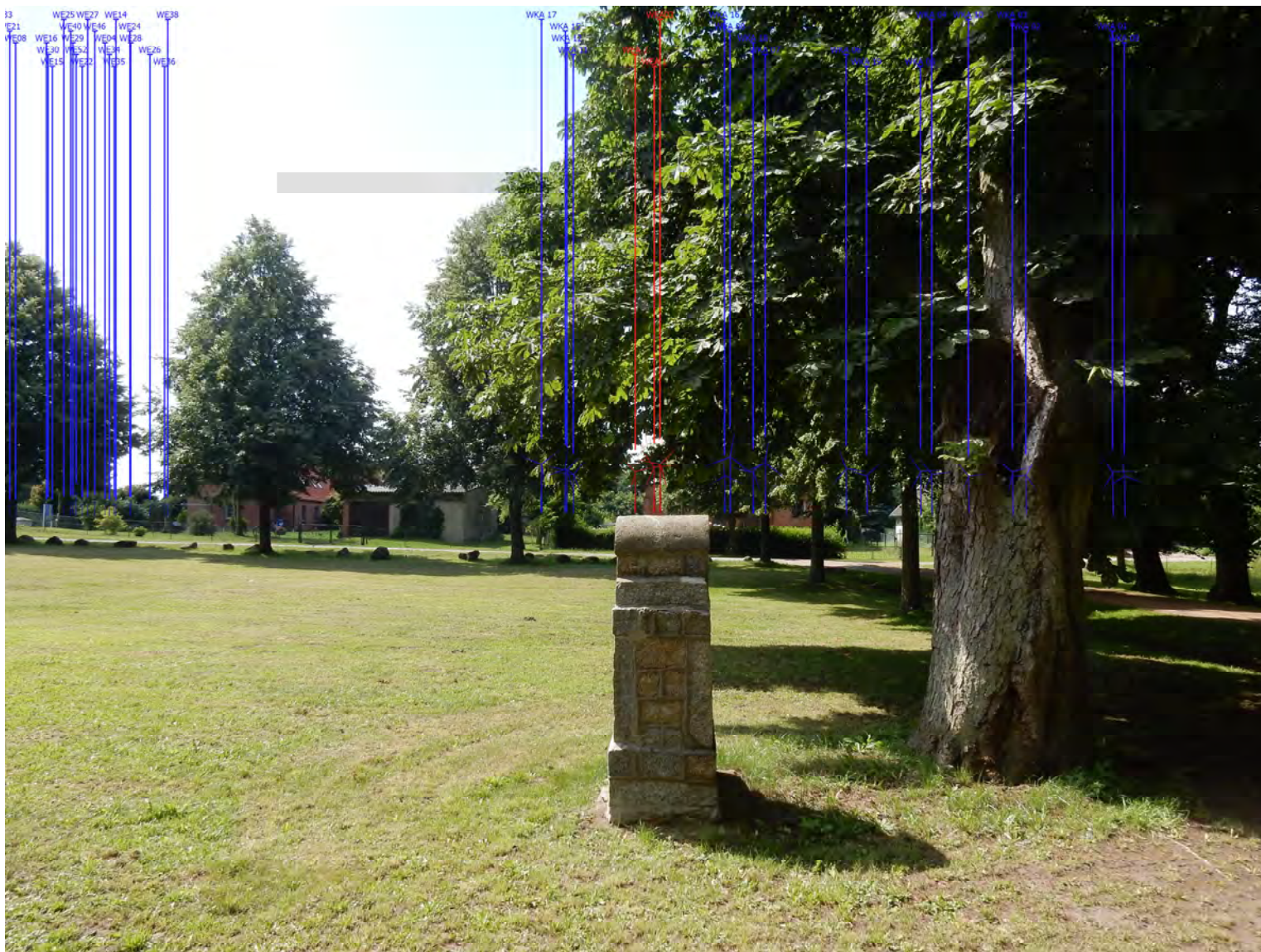


## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP30, Mühlenhof, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|         |             | WEA-Typ |           | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|---------|-------------|---------|-----------|----------------------|-------------------|----------------------|---------------|--------------------|----------------|
| Aktuell | Hersteller  |         |           |                      |                   |                      |               | FP30.01 Ka [m]     | FP30.02 Ka [m] |
| WKA 4   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 10.163             | 10.209         |
| WKA 40  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 9.313              | 9.356          |
| WKA 41  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 9.610              | 9.655          |
| WKA 42  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 9.695              | 9.742          |
| WKA 43  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 9.897              | 9.944          |
| WKA 44  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 9.968              | 10.014         |
| WKA 46  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 8.943              | 8.989          |
| WKA 47  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 9.191              | 9.236          |
| WKA 48  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 9.487              | 9.530          |
| WKA 49  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 10.348             | 10.394         |
| WKA 5   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 9.972              | 10.018         |
| WKA 50  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 10.551             | 10.598         |
| WKA 51  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 10.757             | 10.803         |
| WKA 52  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 10.972             | 11.018         |
| WKA 53  | Existierend | Ja      | eno       | eno 82 2.05-2.050    | 2.050             | 82,4                 | 108,0         | 11.072             | 11.115         |
| WKA 54  | Existierend | Nein    | NEG MICON | NM72C/1500-1.500/400 | 1.500             | 72,0                 | 80,0          | 9.654              | 9.697          |
| WKA 55  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 9.879              | 9.923          |
| WKA 56  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 10.172             | 10.216         |
| WKA 57  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 10.449             | 10.492         |
| WKA 58  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 10.269             | 10.317         |
| WKA 59  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 113,5         | 10.532             | 10.580         |
| WKA 6   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 9.754              | 9.798          |
| WKA 60  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 9.218              | 9.267          |
| WKA 61  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 10.163             | 10.211         |
| WKA 62  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 9.999              | 10.048         |
| WKA 7   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 10.011             | 10.056         |
| WKA 8   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 10.281             | 10.325         |
| WKA 9   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 10.511             | 10.555         |



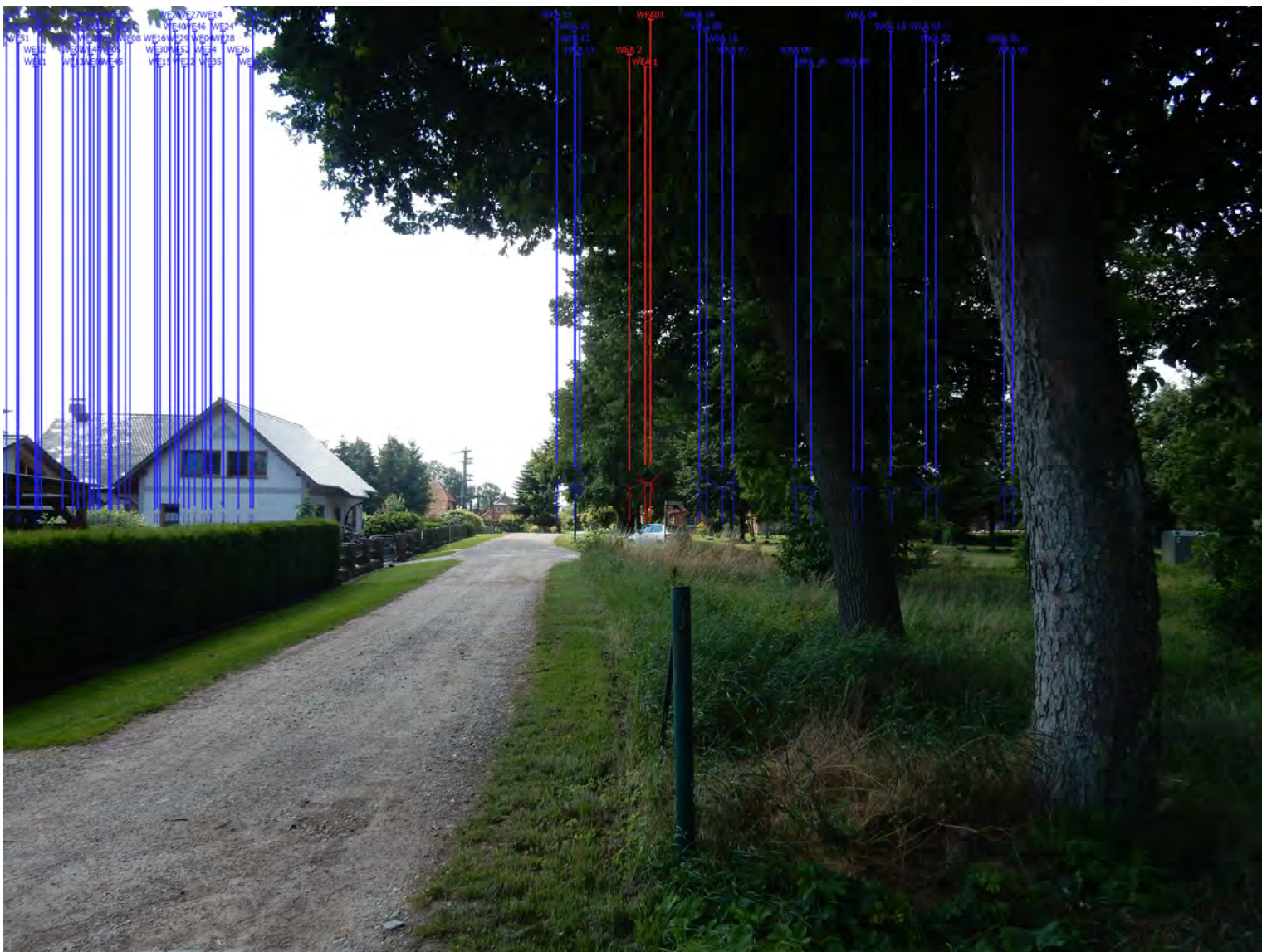
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 17 cm**

Fotoaufnahme: 13.07.2021 11:43:18  
 Gesichtsfeld: 60,8°x47,5° Brennweite: 30 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 695.759 Nord: 5.937.972  
 Windrichtung: 0° Richtung des Fotos: 184°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP30.01 Ka FP30.01, Mühlenhof, Gutshaus, direkt davor

Erzeugt von:  
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Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 14 cm**

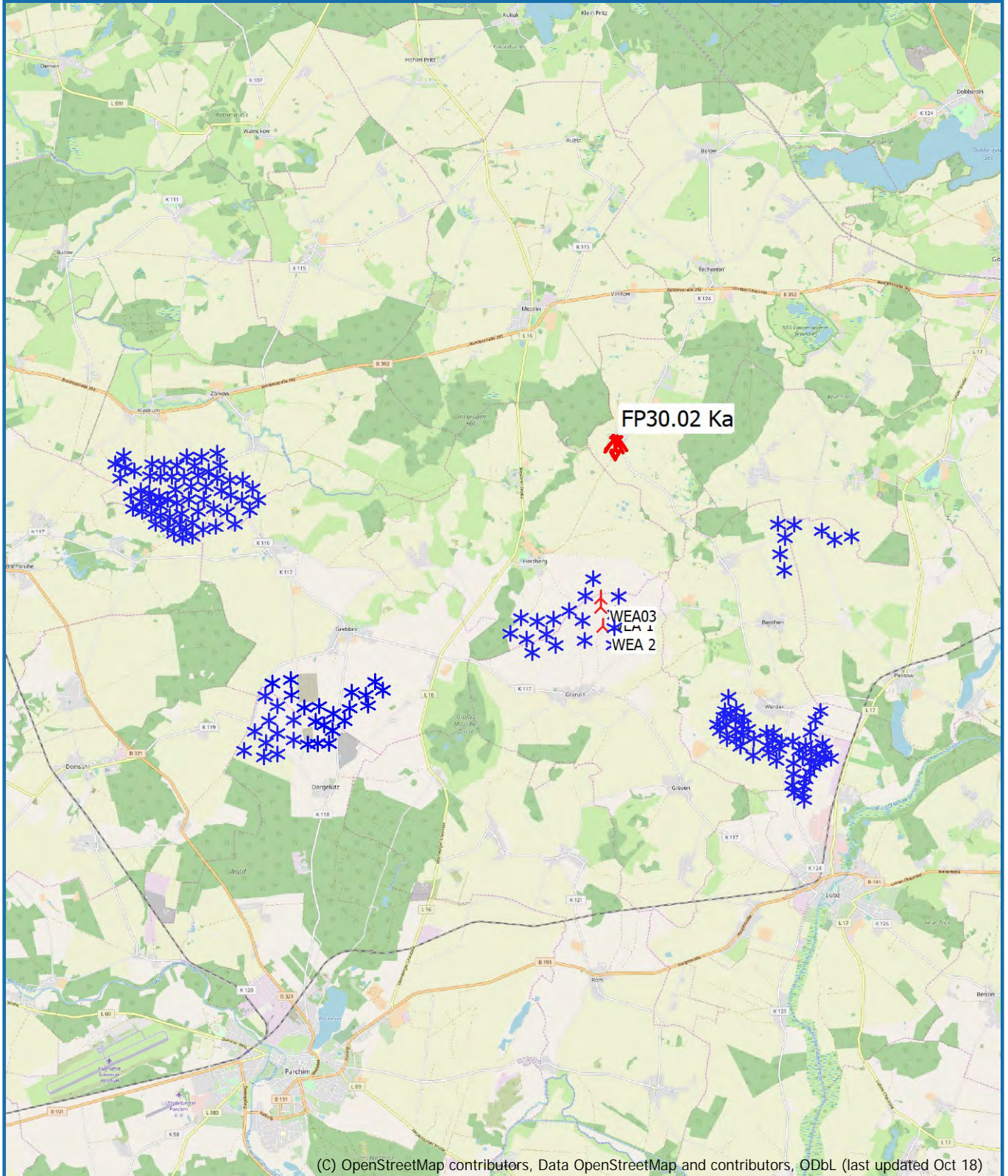
Fotoaufnahme: 13.07.2021 11:48:15  
 Gesichtsfeld: 72,7°x57,8° Brennweite: 24 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 695.799 Nord: 5.938.011  
 Windrichtung: 0° Richtung des Fotos: 185°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP30.02 Ka FP30.02, Mühlenhof, Gutshaus, von Mestliner Weg

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 Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP30, Mühlenhof, Gutshaus; 2022-08-24



Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.934.001

Neue WEA \* Existierende WEA Kamera





### VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP31, Passow, Kirche; 2022-08-24

#### WEA-Platzierung

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |               |
|------|-------------|------|------------|----------------------|--------------|-------------------|-----------|--------------------|------------|---------------|
|      | Aktuell     |      |            |                      |              |                   |           | FP31.01 Ka         | FP31.02 Ka | FP31.02 Ka(r) |
|      |             |      |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]           |
| B01  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 14.247             | 14.206     | 14.206        |
| B02  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 13.824             | 13.783     | 13.783        |
| B03  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 13.815             | 13.773     | 13.773        |
| B04  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 12.447             | 12.405     | 12.405        |
| B05  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 12.137             | 12.095     | 12.095        |
| B06  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 13.542             | 13.499     | 13.499        |
| B07  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 12.103             | 12.060     | 12.060        |
| B08  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 12.533             | 12.490     | 12.490        |
| B09  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 13.211             | 13.168     | 13.168        |
| B10  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 12.908             | 12.865     | 12.865        |
| B11  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 12.663             | 12.619     | 12.619        |
| B12  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 11.926             | 11.885     | 11.885        |
| B13  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 11.752             | 11.710     | 11.710        |
| B14  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.141             | 14.098     | 14.098        |
| B15  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 13.815             | 13.772     | 13.772        |
| B16  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.359             | 14.315     | 14.315        |
| B17  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.203             | 14.159     | 14.159        |
| B18  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 13.853             | 13.808     | 13.808        |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.713             | 14.669     | 14.669        |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.481             | 14.436     | 14.436        |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.247             | 14.201     | 14.201        |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.993             | 14.948     | 14.948        |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.566             | 14.520     | 14.520        |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 14.411             | 14.369     | 14.369        |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 13.537             | 13.492     | 13.492        |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 13.321             | 13.276     | 13.276        |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 13.075             | 13.029     | 13.029        |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 12.966             | 12.922     | 12.922        |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 13.127             | 13.083     | 13.083        |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 13.321             | 13.277     | 13.277        |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 4.337              | 4.344      | 4.344         |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 3.976              | 3.982      | 3.982         |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 3.801              | 3.801      | 3.801         |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 3.496              | 3.493      | 3.493         |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 4.086              | 4.097      | 4.097         |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 3.614              | 3.631      | 3.631         |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 3.292              | 3.312      | 3.312         |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 3.206              | 3.232      | 3.232         |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.378              | 3.321      | 3.321         |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.208              | 3.151      | 3.151         |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.445              | 3.385      | 3.385         |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 4.051              | 3.998      | 3.998         |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.650              | 3.591      | 3.591         |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.753              | 2.694      | 2.694         |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.821              | 2.762      | 2.762         |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.589              | 3.532      | 3.532         |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.350              | 3.292      | 3.292         |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 2.997              | 2.939      | 2.939         |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.005              | 2.947      | 2.947         |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.030              | 2.971      | 2.971         |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 3.280              | 3.221      | 3.221         |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 4.107              | 4.053      | 4.053         |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 3.770              | 3.717      | 3.717         |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 3.733              | 3.678      | 3.678         |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 2.548              | 2.491      | 2.491         |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 2.306              | 2.250      | 2.250         |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 2.684              | 2.625      | 2.625         |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 2.764              | 2.704      | 2.704         |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 60,0      | 3.544              | 3.488      | 3.488         |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 3.924              | 3.871      | 3.871         |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 3.274              | 3.219      | 3.219         |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 4.192              | 4.141      | 4.141         |

(Fortsetzung nächste Seite)...



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP31, Passow, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      | Hersteller     | Typ                     | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |            |
|---------|-------------|------|----------------|-------------------------|--------------|-------------------|-----------|--------------------|------------|------------|
| Aktuell | Neu         | Ja   |                |                         |              |                   |           | Nein               | FP31.01 Ka | FP31.02 Ka |
|         |             |      |                |                         | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]        |
| WE25    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.893              | 3.844      | 3.844      |
| WE26    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 4.295              | 4.241      | 4.241      |
| WE27    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.978              | 3.927      | 3.927      |
| WE28    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 4.213              | 4.163      | 4.163      |
| WE29    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 4.004              | 3.957      | 3.957      |
| WE30    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.778              | 3.727      | 3.727      |
| WE31    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.163              | 3.104      | 3.104      |
| WE32    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 2.949              | 2.890      | 2.890      |
| WE33    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.542              | 3.484      | 3.484      |
| WE34    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 4.078              | 4.023      | 4.023      |
| WE35    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 4.148              | 4.099      | 4.099      |
| WE36    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 4.374              | 4.322      | 4.322      |
| WE37    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 3.430              | 3.375      | 3.375      |
| WE38    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 4.397              | 4.346      | 4.346      |
| WE39    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 2.119              | 2.063      | 2.063      |
| WE40    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.873              | 3.821      | 3.821      |
| WE41    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.728              | 3.669      | 3.669      |
| WE42    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 2.495              | 2.436      | 2.436      |
| WE43    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.475              | 3.416      | 3.416      |
| WE44    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.615              | 3.556      | 3.556      |
| WE45    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.719              | 3.660      | 3.660      |
| WE46    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 4.033              | 3.983      | 3.983      |
| WE47    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.328              | 3.269      | 3.269      |
| WE48    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 2.607              | 2.547      | 2.547      |
| WE49    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 2.841              | 2.782      | 2.782      |
| WE50    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 2.550              | 2.491      | 2.491      |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 3.000              | 2.941      | 2.941      |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600        | 116,8             | 140,6     | 3.915              | 3.858      | 3.858      |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.973              | 6.942      | 6.942      |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.862              | 6.829      | 6.829      |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000        | 160,0             | 165,0     | 7.019              | 6.990      | 6.990      |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 8.717              | 8.683      | 8.683      |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 8.534              | 8.498      | 8.498      |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 8.342              | 8.308      | 8.308      |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 8.090              | 8.055      | 8.055      |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 7.969              | 7.936      | 7.936      |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600        | 150,0             | 169,0     | 7.659              | 7.627      | 7.627      |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 7.369              | 7.340      | 7.340      |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 7.291              | 7.265      | 7.265      |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 8.915              | 8.879      | 8.879      |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 16.474             | 16.443     | 16.443     |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 8.381              | 8.343      | 8.343      |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 18.124             | 18.096     | 18.096     |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.578              | 6.542      | 6.542      |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 18.369             | 18.341     | 18.341     |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 16.648             | 16.618     | 16.618     |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.592              | 6.559      | 6.559      |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 16.895             | 16.865     | 16.865     |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 17.106             | 17.076     | 17.076     |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.633              | 6.601      | 6.601      |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 17.315             | 17.285     | 17.285     |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 7.228              | 7.191      | 7.191      |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 17.526             | 17.495     | 17.495     |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 17.735             | 17.705     | 17.705     |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 6.639              | 6.611      | 6.611      |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 7.323              | 7.290      | 7.290      |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 17.664             | 17.635     | 17.635     |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 17.460             | 17.430     | 17.430     |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000        | 162,0             | 169,0     | 7.868              | 7.831      | 7.831      |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 16.301             | 16.269     | 16.269     |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700        | 149,0             | 125,4     | 18.163             | 18.134     | 18.134     |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 17.896             | 17.868     | 17.868     |

(Fortsetzung nächste Seite)...

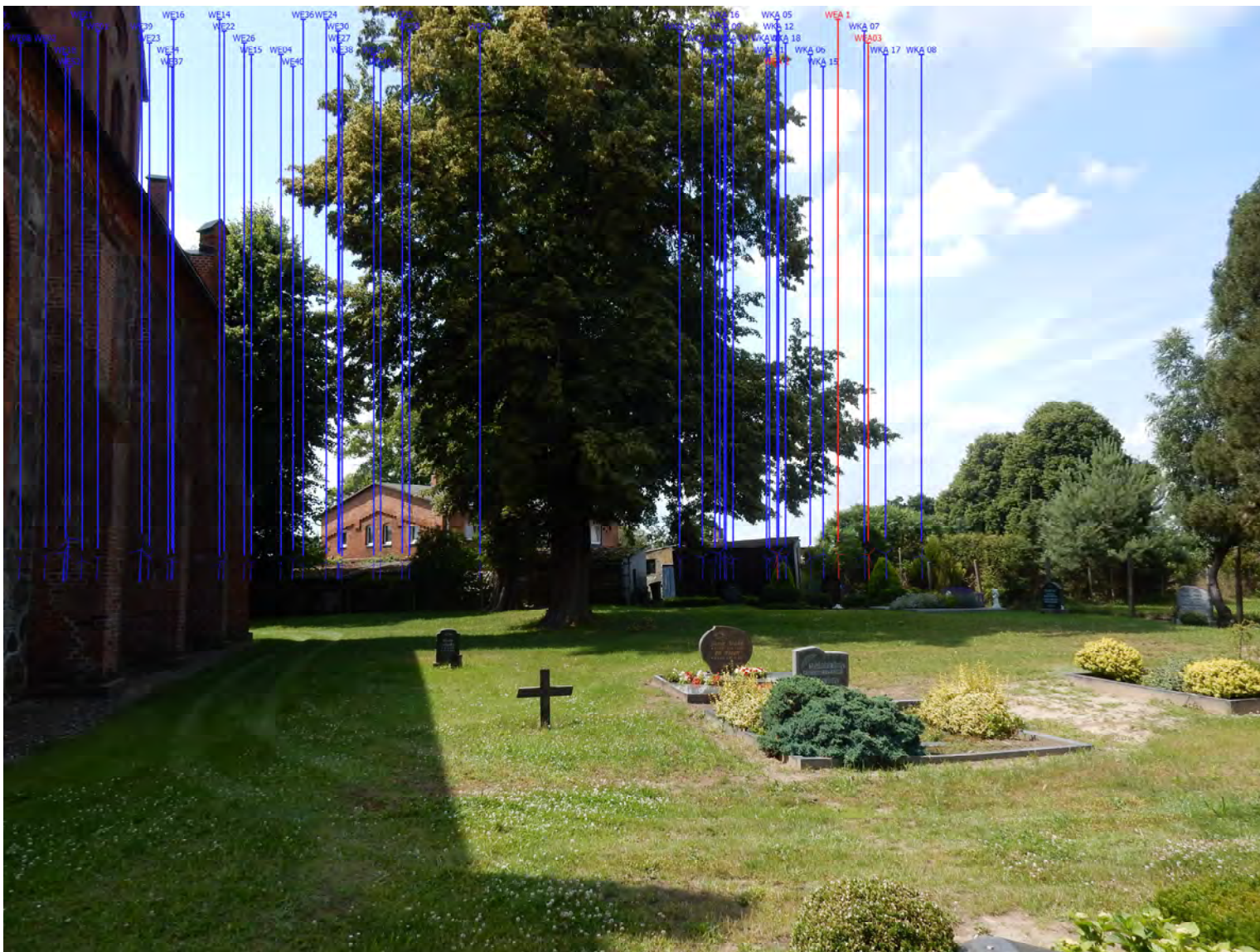
## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP31, Passow, Kirche; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller | Typ       | Nennleistung         | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |               |        |
|---------|-------------|------------|-----------|----------------------|-------------------|-----------|--------------------|------------|---------------|--------|
| Aktuell | Nein        |            |           |                      |                   |           | FP31.01 Ka         | FP31.02 Ka | FP31.02 Ka(r) |        |
|         |             |            |           | [kW]                 | [m]               | [m]       | [m]                | [m]        | [m]           |        |
| WKA 21  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 16.213     | 16.188        | 16.188 |
| WKA 22  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 16.080     | 16.054        | 16.054 |
| WKA 23  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 15.756     | 15.729        | 15.729 |
| WKA 24  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 15.486     | 15.460        | 15.460 |
| WKA 25  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 15.222     | 15.195        | 15.195 |
| WKA 26  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.372     | 16.341        | 16.341 |
| WKA 27  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.294     | 16.265        | 16.265 |
| WKA 28  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.102     | 16.071        | 16.071 |
| WKA 29  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.229     | 16.200        | 16.200 |
| WKA 3   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 17.229     | 17.199        | 17.199 |
| WKA 30  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.253     | 16.226        | 16.226 |
| WKA 31  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 15.433     | 15.403        | 15.403 |
| WKA 32  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 15.652     | 15.623        | 15.623 |
| WKA 33  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 15.968     | 15.939        | 15.939 |
| WKA 34  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 15.167     | 15.138        | 15.138 |
| WKA 35  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 15.032     | 15.004        | 15.004 |
| WKA 36  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 15.392     | 15.364        | 15.364 |
| WKA 37  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 15.668     | 15.640        | 15.640 |
| WKA 38  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.047     | 16.020        | 16.020 |
| WKA 39  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.479     | 16.452        | 16.452 |
| WKA 4   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 17.013     | 16.984        | 16.984 |
| WKA 40  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.523     | 16.497        | 16.497 |
| WKA 41  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.575     | 16.547        | 16.547 |
| WKA 42  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.552     | 16.524        | 16.524 |
| WKA 43  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.633     | 16.603        | 16.603 |
| WKA 44  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 16.903     | 16.875        | 16.875 |
| WKA 46  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0     | 164,0              | 15.890     | 15.862        | 15.862 |
| WKA 47  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0     | 164,0              | 16.288     | 16.261        | 16.261 |
| WKA 48  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0     | 164,0              | 16.619     | 16.592        | 16.592 |
| WKA 49  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 17.146     | 17.116        | 17.116 |
| WKA 5   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 16.799     | 16.770        | 16.770 |
| WKA 50  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 17.367     | 17.337        | 17.337 |
| WKA 51  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 17.588     | 17.558        | 17.558 |
| WKA 52  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 17.841     | 17.811        | 17.811 |
| WKA 53  | Existierend | Ja         | eno       | eno 82 2.05-2.050    | 2.050             | 82,4      | 108,0              | 18.217     | 18.189        | 18.189 |
| WKA 54  | Existierend | Nein       | NEG MICON | NM72C/1500-1.500/400 | 1.500             | 72,0      | 80,0               | 16.845     | 16.819        | 16.819 |
| WKA 55  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200             | 92,8      | 103,0              | 17.003     | 16.976        | 16.976 |
| WKA 56  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200             | 92,8      | 103,0              | 17.288     | 17.261        | 17.261 |
| WKA 57  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200             | 92,8      | 103,0              | 17.563     | 17.535        | 17.535 |
| WKA 58  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 16.885     | 16.854        | 16.854 |
| WKA 59  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 113,5              | 17.176     | 17.145        | 17.145 |
| WKA 6   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 16.798     | 16.770        | 16.770 |
| WKA 60  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 15.837     | 15.806        | 15.806 |
| WKA 61  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 16.720     | 16.689        | 16.689 |
| WKA 62  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 16.515     | 16.483        | 16.483 |
| WKA 7   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 17.046     | 17.018        | 17.018 |
| WKA 8   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 17.306     | 17.278        | 17.278 |
| WKA 9   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 17.534     | 17.506        | 17.506 |





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 16 cm**

Fotoaufnahme: 13.07.2021 14:11:17  
 Gesichtsfeld: 65,3°x51,4° Brennweite: 27 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 702.477 Nord: 5.933.048  
 Windrichtung: 0° Richtung des Fotos: 270°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP31.01 Ka FP31.01, Passow, Kirche, von Friedhof

Erzeugt von:  
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Projekt: WEA: 172  
0108-Granzin

Empfohlener Betrachtungsabstand: 16 cm

Fotoaufnahme: 13.07.2021 14:15:33  
Gesichtsfeld: 65,7°x51,7° Brennweite: 27 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 702.439 Nord: 5.933.003  
Windrichtung: 0° Richtung des Fotos: 284°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP31.02 Ka FP31.02, Passow, Kirche, von Friedhofsweg

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Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 16 cm**

Fotoaufnahme: 13.07.2021 14:15:33  
 Gesichtsfeld: 65,7°x51,7° Brennweite: 27 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 702.439 Nord: 5.933.003  
 Windrichtung: 0° Richtung des Fotos: 284°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP31.02 Ka(r) FP31.02, Passow, Kirche, von Friedhofsweg (fotorealistisch)

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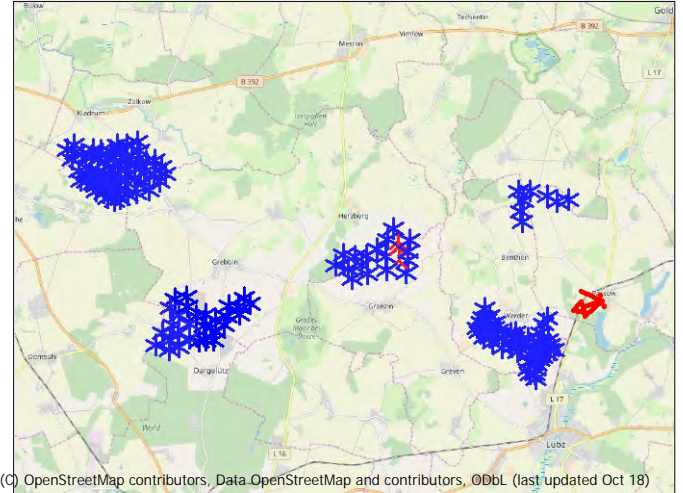






## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP32/33, Passow, Gutshaus/Park; 2022-08-24



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Maßstab 1:250.000  
 ▲ Neue WEA      ★ Existierende WEA      📷 Kamera

FP32/33.01 Ka FP32/33.01, Passow, Gutshaus/Park, von am Schloss



|                             |         |           |      |              |                          |  |
|-----------------------------|---------|-----------|------|--------------|--------------------------|--|
| UTM (north)-ETRS89 Zone: 32 | Ost     | Nord      | Z    | Wolken       | :teilweise bewölkt (4/8) | Foto-Datei im Querformat: 4608 x 3456 Pixel  |
| Kamerapunkt                 | 702.420 | 5.932.666 | 57,2 | Sichtbarkeit | :Normal                  | DSCN5001.JPG   |
| Zielpunkt                   | 702.322 | 5.932.645 | 62,8 | Sonne        | :Normal                  | Gesichtsfeld: 67,3°x53,1° Brennweite: 26 mm Film: 35x26 mm                         |
| Foto-Richtung               | 260°    |           |      | Windricht.   | :0°                      | Fotobeschreibung.: FP32/33.01 Ka FP32/33.01, Passow, Gutshaus/Park, von am Schloss |

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP32/33, Passow, Gutshaus/Park; 2022-08-24

### WEA-Platzierung

|      |             | WEA-Typ |            | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera FP32/33.01 Ka |     |
|------|-------------|---------|------------|----------------------|-------------------|----------------------|---------------|----------------------------------|-----|
|      | Existierend | Aktuell | Hersteller |                      |                   |                      |               | [m]                              | [m] |
| B01  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 14.171                           |     |
| B02  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 13.750                           |     |
| B03  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 13.731                           |     |
| B04  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 108,3         | 12.364                           |     |
| B05  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 108,3         | 12.052                           |     |
| B06  | Existierend | Ja      | ENERCON    | E-82-2.000           | 2.000             | 82,0                 | 78,3          | 13.450                           |     |
| B07  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 12.010                           |     |
| B08  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 12.439                           |     |
| B09  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 13.119                           |     |
| B10  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 12.811                           |     |
| B11  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 12.560                           |     |
| B12  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 11.850                           |     |
| B13  | Existierend | Ja      | ENERCON    | E-82 E2-2.300        | 2.300             | 82,0                 | 108,4         | 11.670                           |     |
| B14  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.050                           |     |
| B15  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.716                           |     |
| B16  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.260                           |     |
| B17  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.096                           |     |
| B18  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.741                           |     |
| B19  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.609                           |     |
| B20  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.370                           |     |
| B21  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.128                           |     |
| B22  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.879                           |     |
| B23  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.447                           |     |
| B24  | Existierend | Ja      | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.327                           |     |
| B25  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 13.422                           |     |
| B26  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 13.206                           |     |
| B27  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 12.959                           |     |
| B28  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 12.858                           |     |
| B29  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 13.023                           |     |
| B30  | Existierend | Ja      | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 13.219                           |     |
| PA1  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 4.586                            |     |
| PA2  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 4.218                            |     |
| PA3  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 4.018                            |     |
| PA4  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 3.696                            |     |
| PA5  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 4.353                            |     |
| PA6  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 3.910                            |     |
| PA7  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 3.600                            |     |
| PA8  | Existierend | Ja      | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 3.537                            |     |
| WE01 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.146                            |     |
| WE02 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.965                            |     |
| WE03 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.138                            |     |
| WE04 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.868                            |     |
| WE05 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.333                            |     |
| WE06 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.462                            |     |
| WE07 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.542                            |     |
| WE08 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.339                            |     |
| WE09 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 3.095                            |     |
| WE10 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.743                            |     |
| WE11 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.726                            |     |
| WE12 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.735                            |     |
| WE13 | Existierend | Nein    | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 2.987                            |     |
| WE14 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 3.906                            |     |
| WE15 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 3.579                            |     |
| WE16 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 3.520                            |     |
| WE17 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.290                            |     |
| WE18 | Existierend | Nein    | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 2.074                            |     |
| WE19 | Existierend | Nein    | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 2.362                            |     |
| WE20 | Existierend | Nein    | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 2.457                            |     |
| WE21 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 3.308                            |     |
| WE22 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 3.725                            |     |
| WE23 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 3.057                            |     |
| WE24 | Existierend | Nein    | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 4.023                            |     |
| WE25 | Existierend | Nein    | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 3.751                            |     |

(Fortsetzung nächste Seite)...





## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP32/33, Passow, Gutshaus/Park; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller | Typ       | Nennleistung [kW]    | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |        |
|---------|-------------|------------|-----------|----------------------|----------------------|---------------|--------------------|--------|
| Aktuell | Existierend |            |           |                      |                      |               | FP32/33.01 Ka      | [m]    |
| WKA 23  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 15.793 |
| WKA 24  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 15.525 |
| WKA 25  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750                | 66,0          | 67,0               | 15.258 |
| WKA 26  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.381 |
| WKA 27  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.311 |
| WKA 28  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.109 |
| WKA 29  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.252 |
| WKA 3   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 17.248 |
| WKA 30  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.284 |
| WKA 31  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 15.447 |
| WKA 32  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 15.671 |
| WKA 33  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 15.987 |
| WKA 34  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 15.190 |
| WKA 35  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 15.063 |
| WKA 36  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 15.420 |
| WKA 37  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 15.697 |
| WKA 38  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.083 |
| WKA 39  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.514 |
| WKA 4   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 17.032 |
| WKA 40  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.568 |
| WKA 41  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.603 |
| WKA 42  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.574 |
| WKA 43  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.646 |
| WKA 44  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 16.928 |
| WKA 46  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 15.920 |
| WKA 47  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 16.326 |
| WKA 48  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 16.658 |
| WKA 49  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 17.161 |
| WKA 5   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 16.817 |
| WKA 50  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 17.381 |
| WKA 51  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 17.603 |
| WKA 52  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 17.857 |
| WKA 53  | Existierend | Ja         | eno       | eno 82 2.05-2.050    | 2.050                | 82,4          | 108,0              | 18.250 |
| WKA 54  | Existierend | Nein       | NEG MICON | NM72C/1500-1.500/400 | 1.500                | 72,0          | 80,0               | 16.887 |
| WKA 55  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 17.039 |
| WKA 56  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 17.323 |
| WKA 57  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 17.597 |
| WKA 58  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 16.890 |
| WKA 59  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 113,5              | 17.181 |
| WKA 6   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 16.830 |
| WKA 60  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 15.847 |
| WKA 61  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 16.722 |
| WKA 62  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 16.516 |
| WKA 7   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 17.077 |
| WKA 8   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 17.335 |
| WKA 9   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 17.562 |





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 14:20:06  
 Gesichtsfeld: 67,3°x53,1° Brennweite: 26 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 702.420 Nord: 5.932.666  
 Windrichtung: 0° Richtung des Fotos: 260°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP32/33.01 Ka FP32/33.01, Passow, Gutshaus/Park, von am Schloss

Erzeugt von:  
 enosite GmbH  
 Straße am Zeltplatz 7  
 DE-18230 Ostseebad Rerik  
 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com



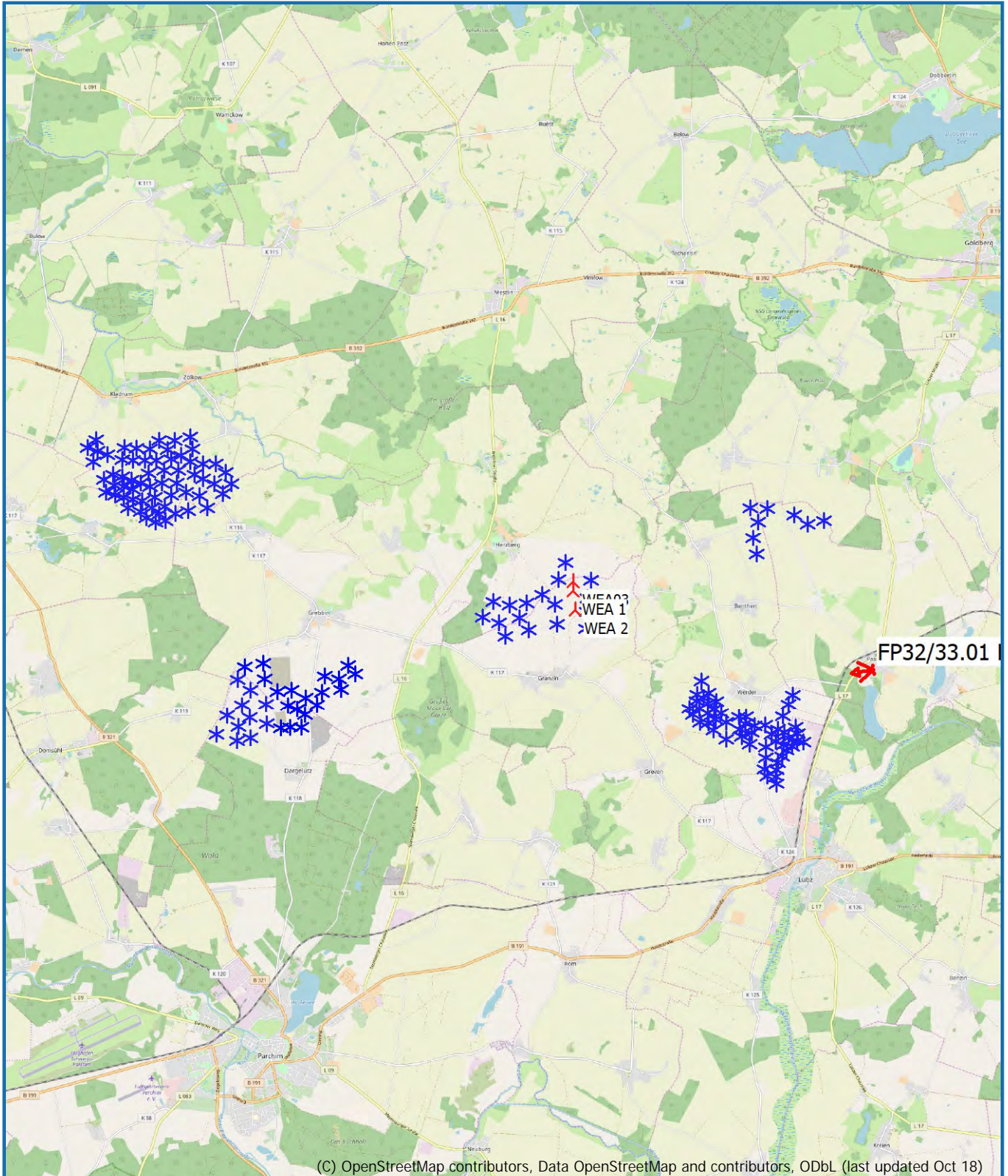
Projekt:  
0108-Granzin

Beschreibung:  
Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender:  
enosite GmbH  
Straße am Zeltplatz 7  
DE-18230 Ostseebad Rerik  
+49(0)38296 747 400  
Raimund Woerl / raimund.woerl@eno-site.com  
Berechnet:  
25.08.2022 11:13/3.5.584

## VISUAL - Karte

Berechnung: Granzin, Visualisierung: FP32/33, Passow, Gutshaus/Park; 2022-08-24



0 2,5 5 7,5 10km

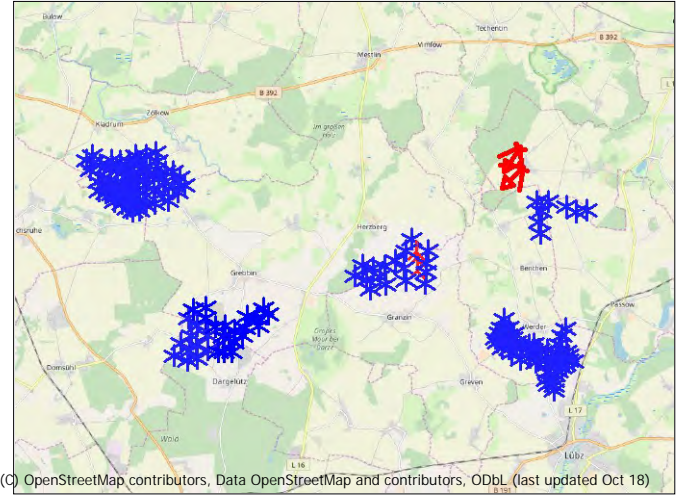
Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 693.473 Nord: 5.933.632

Neue WEA \* Existierende WEA Kamera



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP35, Sehlsdorf, Gutshaus; 2022-08-24



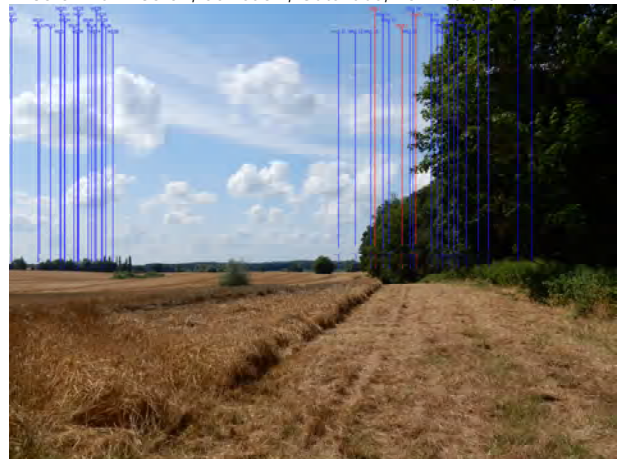
Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP35.01 Ka FP35.01, Sehlsdorf, Gutshaus, von Am Kulturhaus



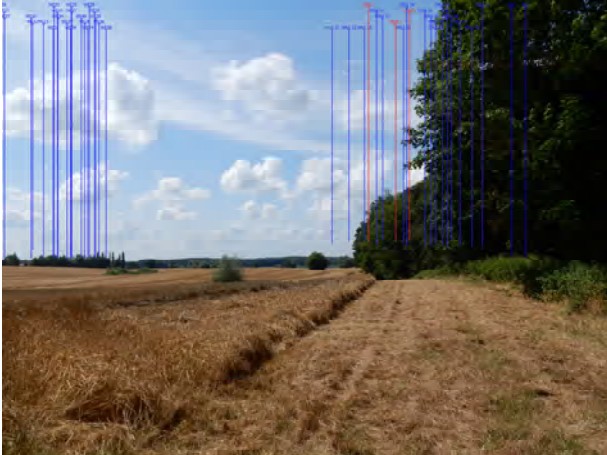
UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken :wenig bewölkt (2/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 699.012 5.937.323 76,1 Sichtbarkeit :Normal DSCN4871.JPG  
 Zielpunkt 698.937 5.937.257 89,9 Sonne :Normal Geschichtsfeld: 84,7°x68,7° Brennweite: 19 mm Film: 35x26 mm  
 Foto-Richtung 231° Windricht. :0° Fotobeschreibung: FP35.01 Ka FP35.01, Sehlsdorf, Gutshaus, von Am Kulturhaus

FP35.02 Ka FP35.02, Sehlsdorf, Gutshaus, von Waldrand



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken :teilweise bewölkt (4/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 698.868 5.937.972 76,5 Sichtbarkeit :Normal DSCN4878.JPG  
 Zielpunkt 698.773 5.937.803 92,4 Sonne :Normal Geschichtsfeld: 69,0°x54,5° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung 212° Windricht. :0° Fotobeschreibung: FP35.02 Ka FP35.02, Sehlsdorf, Gutshaus, von Waldrand

FP35.02 Ka(r) FP35.02, Sehlsdorf, Gutshaus, von Waldrand (fotorealistisch)



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken :teilweise bewölkt (4/8) Foto-Datset im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 698.868 5.937.972 76,5 Sichtbarkeit :Normal DSCN4878.JPG  
 Zielpunkt 698.773 5.937.803 92,4 Sonne :Normal Geschichtsfeld: 69,0°x54,5° Brennweite: 25 mm Film: 35x26 mm  
 Foto-Richtung 212° Windricht. :0° Fotobeschreibung: FP35.02 Ka(r) FP35.02, Sehlsdorf, Gutshaus, von Waldrand (fotorealistisch)

### VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP35, Sehlsdorf, Gutshaus; 2022-08-24  
WEA-Platzierung

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |               |
|------|-------------|------|------------|----------------------|--------------|-------------------|-----------|--------------------|------------|---------------|
|      | Aktuell     |      |            |                      |              |                   |           | FP35.01 Ka         | FP35.02 Ka | FP35.02 Ka(r) |
|      |             |      |            |                      | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]           |
| B01  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 11.935             | 12.104     | 12.104        |
| B02  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 11.519             | 11.694     | 11.694        |
| B03  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 11.643             | 11.836     | 11.836        |
| B04  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 10.399             | 10.626     | 10.626        |
| B05  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 108,3     | 10.150             | 10.389     | 10.389        |
| B06  | Existierend | Ja   | ENERCON    | E-82-2.000           | 2.000        | 82,0              | 78,3      | 11.516             | 11.730     | 11.730        |
| B07  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 10.237             | 10.491     | 10.491        |
| B08  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 10.633             | 10.876     | 10.876        |
| B09  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 11.206             | 11.427     | 11.427        |
| B10  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 11.015             | 11.253     | 11.253        |
| B11  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 10.870             | 11.123     | 11.123        |
| B12  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 9.835              | 10.065     | 10.065        |
| B13  | Existierend | Ja   | ENERCON    | E-82 E2-2.300        | 2.300        | 82,0              | 108,4     | 9.768              | 10.014     | 10.014        |
| B14  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 12.038             | 12.235     | 12.235        |
| B15  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 11.868             | 12.089     | 12.089        |
| B16  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 12.362             | 12.570     | 12.570        |
| B17  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 12.336             | 12.561     | 12.561        |
| B18  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 12.085             | 12.326     | 12.326        |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 12.769             | 12.979     | 12.979        |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 12.658             | 12.885     | 12.885        |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 12.549             | 12.793     | 12.793        |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 13.172             | 13.395     | 13.395        |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 12.853             | 13.092     | 13.092        |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000        | 71,0              | 85,0      | 12.191             | 12.370     | 12.370        |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 11.847             | 12.101     | 12.101        |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 11.655             | 11.915     | 11.915        |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 11.442             | 11.708     | 11.708        |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 11.225             | 11.481     | 11.481        |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 11.312             | 11.556     | 11.556        |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300        | 71,0              | 85,0      | 11.450             | 11.685     | 11.685        |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 1.225              | 1.883      | 1.883         |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 1.598              | 2.252      | 2.252         |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 1.901              | 2.565      | 2.565         |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 2.275              | 2.939      | 2.939         |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 1.418              | 2.041      | 2.041         |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 1.939              | 2.502      | 2.502         |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 2.296              | 2.846      | 2.846         |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200        | 150,0             | 169,0     | 2.540              | 3.044      | 3.044         |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.041              | 6.702      | 6.702         |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.086              | 6.749      | 6.749         |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.842              | 7.505      | 7.505         |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 5.812              | 6.455      | 6.455         |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 7.084              | 7.748      | 7.748         |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.326              | 6.991      | 6.991         |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.245              | 6.910      | 6.910         |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.320              | 6.979      | 6.979         |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.249              | 6.911      | 6.911         |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.099              | 6.763      | 6.763         |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.331              | 6.996      | 6.996         |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.496              | 7.161      | 7.161         |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500          | 40,3              | 65,0      | 6.597              | 7.261      | 7.261         |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 6.033              | 6.678      | 6.678         |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 5.790              | 6.441      | 6.441         |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 6.000              | 6.654      | 6.654         |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 5.971              | 6.636      | 6.636         |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600          | 43,0              | 60,0      | 5.718              | 6.382      | 6.382         |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 6.579              | 7.243      | 7.243         |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600          | 43,0              | 60,0      | 6.475              | 7.140      | 7.140         |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 60,0      | 6.153              | 6.812      | 6.812         |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 5.937              | 6.586      | 6.586         |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 5.875              | 6.536      | 6.536         |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750          | 48,2              | 70,0      | 5.718              | 6.355      | 6.355         |

(Fortsetzung nächste Seite)...



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP35, Sehlsdorf, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      | Hersteller     | Typ                     | Nennleistung | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |               |
|---------|-------------|------|----------------|-------------------------|--------------|-------------------|-----------|--------------------|------------|---------------|
| Aktuell | Neu         | Nein |                |                         |              |                   |           | FP35.01 Ka         | FP35.02 Ka | FP35.02 Ka(r) |
|         |             |      |                |                         | [kW]         | [m]               | [m]       | [m]                | [m]        | [m]           |
| WE25    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.338              | 5.981      | 5.981         |
| WE26    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 6.042              | 6.681      | 6.681         |
| WE27    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.586              | 6.229      | 6.229         |
| WE28    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.556              | 6.190      | 6.190         |
| WE29    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.087              | 5.725      | 5.725         |
| WE30    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.519              | 6.168      | 6.168         |
| WE31    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 6.850              | 7.515      | 7.515         |
| WE32    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 6.598              | 7.263      | 7.263         |
| WE33    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 6.496              | 7.157      | 7.157         |
| WE34    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 6.176              | 6.823      | 6.823         |
| WE35    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.399              | 6.034      | 6.034         |
| WE36    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.877              | 6.511      | 6.511         |
| WE37    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.878              | 6.537      | 6.537         |
| WE38    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.747              | 6.378      | 6.378         |
| WE39    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 61,5      | 5.543              | 6.206      | 6.206         |
| WE40    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 5.700              | 6.348      | 6.348         |
| WE41    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.453              | 8.118      | 8.118         |
| WE42    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 6.270              | 6.934      | 6.934         |
| WE43    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.130              | 7.795      | 7.795         |
| WE44    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.296              | 7.960      | 7.960         |
| WE45    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 7.244              | 7.908      | 7.908         |
| WE46    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 5.464              | 6.104      | 6.104         |
| WE47    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 6.970              | 7.635      | 7.635         |
| WE48    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 6.639              | 7.302      | 7.302         |
| WE49    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 6.675              | 7.340      | 7.340         |
| WE50    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 6.424              | 7.088      | 7.088         |
| WE51    | Existierend | Nein | NEG MICON      | NM52/900-900/200        | 900          | 52,0              | 73,8      | 6.749              | 7.414      | 7.414         |
| WE52    | Existierend | Ja   | NORDEX         | N117/3600-3.600         | 3.600        | 116,8             | 140,6     | 6.370              | 7.024      | 7.024         |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 4.664              | 5.033      | 5.033         |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 4.924              | 5.328      | 5.328         |
| WEA03   | Neu         | Ja   | eno            | eno160-6.0MW_rev1-6.000 | 6.000        | 160,0             | 165,0     | 4.533              | 4.884      | 4.884         |
| WKA 01  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.270              | 6.540      | 6.540         |
| WKA 02  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.428              | 6.741      | 6.741         |
| WKA 03  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.998              | 6.294      | 6.294         |
| WKA 04  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.996              | 6.327      | 6.327         |
| WKA 05  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.666              | 5.982      | 5.982         |
| WKA 06  | Existierend | Ja   | VESTAS         | V150-5.6-5.600          | 5.600        | 150,0             | 169,0     | 5.265              | 5.587      | 5.587         |
| WKA 07  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.779              | 5.097      | 5.097         |
| WKA 08  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.430              | 4.726      | 4.726         |
| WKA 09  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.662              | 6.946      | 6.946         |
| WKA 1   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 12.952             | 12.917     | 12.917        |
| WKA 10  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 6.506              | 6.848      | 6.848         |
| WKA 10  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.260             | 14.151     | 14.151        |
| WKA 11  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 5.065              | 5.513      | 5.513         |
| WKA 11  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.492             | 14.380     | 14.380        |
| WKA 12  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.086             | 13.043     | 13.043        |
| WKA 12  | Existierend | Ja   | VESTAS         | V162-5.6-5.600          | 5.600        | 162,0             | 169,0     | 4.756              | 5.183      | 5.183         |
| WKA 13  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.297             | 13.245     | 13.245        |
| WKA 14  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.498             | 13.443     | 13.443        |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 4.542              | 4.948      | 4.948         |
| WKA 15  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.698             | 13.640     | 13.640        |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 5.442              | 5.839      | 5.839         |
| WKA 16  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.899             | 13.838     | 13.838        |
| WKA 17  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.100             | 14.036     | 14.036        |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 4.216              | 4.598      | 4.598         |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY | 5.5-158 -5.500          | 5.500        | 158,0             | 161,0     | 5.171              | 5.533      | 5.533         |
| WKA 18  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.919             | 13.835     | 13.835        |
| WKA 19  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 13.725             | 13.645     | 13.645        |
| WKA 19  | Existierend | Ja   | VESTAS         | V162-6.0-6.000          | 6.000        | 162,0             | 169,0     | 6.004              | 6.366      | 6.366         |
| WKA 2   | Existierend | Nein | ENRONWIND      | EW 1.5s-1.500           | 1.500        | 70,5              | 64,7      | 12.820             | 12.793     | 12.793        |
| WKA 2   | Existierend | Ja   | NORDEX         | N149/5.7-5.700          | 5.700        | 149,0             | 125,4     | 14.358             | 14.261     | 14.261        |
| WKA 20  | Existierend | Nein | TACKE          | TW 600e-600/200         | 600          | 46,0              | 60,0      | 14.044             | 13.939     | 13.939        |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP35, Sehlsdorf, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller | Typ       | Nennleistung         | Rotor-durchmesser | Nabenhöhe | Abstand zur Kamera |            |               |        |
|---------|-------------|------------|-----------|----------------------|-------------------|-----------|--------------------|------------|---------------|--------|
| Aktuell | Nein        |            |           |                      |                   |           | FP35.01 Ka         | FP35.02 Ka | FP35.02 Ka(r) |        |
|         |             |            |           | [kW]                 | [m]               | [m]       | [m]                | [m]        | [m]           |        |
| WKA 21  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 12.188     | 12.064        | 12.064 |
| WKA 22  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 12.126     | 12.017        | 12.017 |
| WKA 23  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 11.889     | 11.800        | 11.800 |
| WKA 24  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 11.607     | 11.518        | 11.518 |
| WKA 25  | Existierend | Nein       | VESTAS    | V66-1.750            | 1.750             | 66,0      | 67,0               | 11.390     | 11.312        | 11.312 |
| WKA 26  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.798     | 12.755        | 12.755 |
| WKA 27  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.643     | 12.588        | 12.588 |
| WKA 28  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.573     | 12.541        | 12.541 |
| WKA 29  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.499     | 12.431        | 12.431 |
| WKA 3   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 13.507     | 13.432        | 13.432 |
| WKA 30  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.442     | 12.358        | 12.358 |
| WKA 31  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 11.850     | 11.815        | 11.815 |
| WKA 32  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 11.993     | 11.942        | 11.942 |
| WKA 33  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.293     | 12.237        | 12.237 |
| WKA 34  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 11.485     | 11.435        | 11.435 |
| WKA 35  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 11.272     | 11.210        | 11.210 |
| WKA 36  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 11.643     | 11.579        | 11.579 |
| WKA 37  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 11.895     | 11.824        | 11.824 |
| WKA 38  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.175     | 12.082        | 12.082 |
| WKA 39  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.606     | 12.508        | 12.508 |
| WKA 4   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 13.306     | 13.235        | 13.235 |
| WKA 40  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.534     | 12.414        | 12.414 |
| WKA 41  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.776     | 12.691        | 12.691 |
| WKA 42  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.834     | 12.765        | 12.765 |
| WKA 43  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.006     | 12.952        | 12.952 |
| WKA 44  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 13.131     | 13.048        | 13.048 |
| WKA 46  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0     | 164,0              | 12.095     | 12.017        | 12.017 |
| WKA 47  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0     | 164,0              | 12.384     | 12.283        | 12.283 |
| WKA 48  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0     | 164,0              | 12.691     | 12.582        | 12.582 |
| WKA 49  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 13.480     | 13.415        | 13.415 |
| WKA 5   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 13.107     | 13.039        | 13.039 |
| WKA 50  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 13.690     | 13.622        | 13.622 |
| WKA 51  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 13.902     | 13.830        | 13.830 |
| WKA 52  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 14.130     | 14.051        | 14.051 |
| WKA 53  | Existierend | Ja         | eno       | eno 82 2.05-2.050    | 2.050             | 82,4      | 108,0              | 14.294     | 14.174        | 14.174 |
| WKA 54  | Existierend | Nein       | NEG MICON | NM72C/1500-1.500/400 | 1.500             | 72,0      | 80,0               | 12.874     | 12.755        | 12.755 |
| WKA 55  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200             | 92,8      | 103,0              | 13.085     | 12.976        | 12.976 |
| WKA 56  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200             | 92,8      | 103,0              | 13.380     | 13.270        | 13.270 |
| WKA 57  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200             | 92,8      | 103,0              | 13.659     | 13.547        | 13.547 |
| WKA 58  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 13.351     | 13.311        | 13.311 |
| WKA 59  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 113,5              | 13.626     | 13.580        | 13.580 |
| WKA 6   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 12.940     | 12.843        | 12.843 |
| WKA 60  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0      | 85,0               | 12.283     | 12.249        | 12.249 |
| WKA 61  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 13.227     | 13.195        | 13.195 |
| WKA 62  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0      | 113,5              | 13.048     | 13.022        | 13.022 |
| WKA 7   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 13.198     | 13.101        | 13.101 |
| WKA 8   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 13.469     | 13.371        | 13.371 |
| WKA 9   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600               | 46,0      | 60,0               | 13.700     | 13.602        | 13.602 |





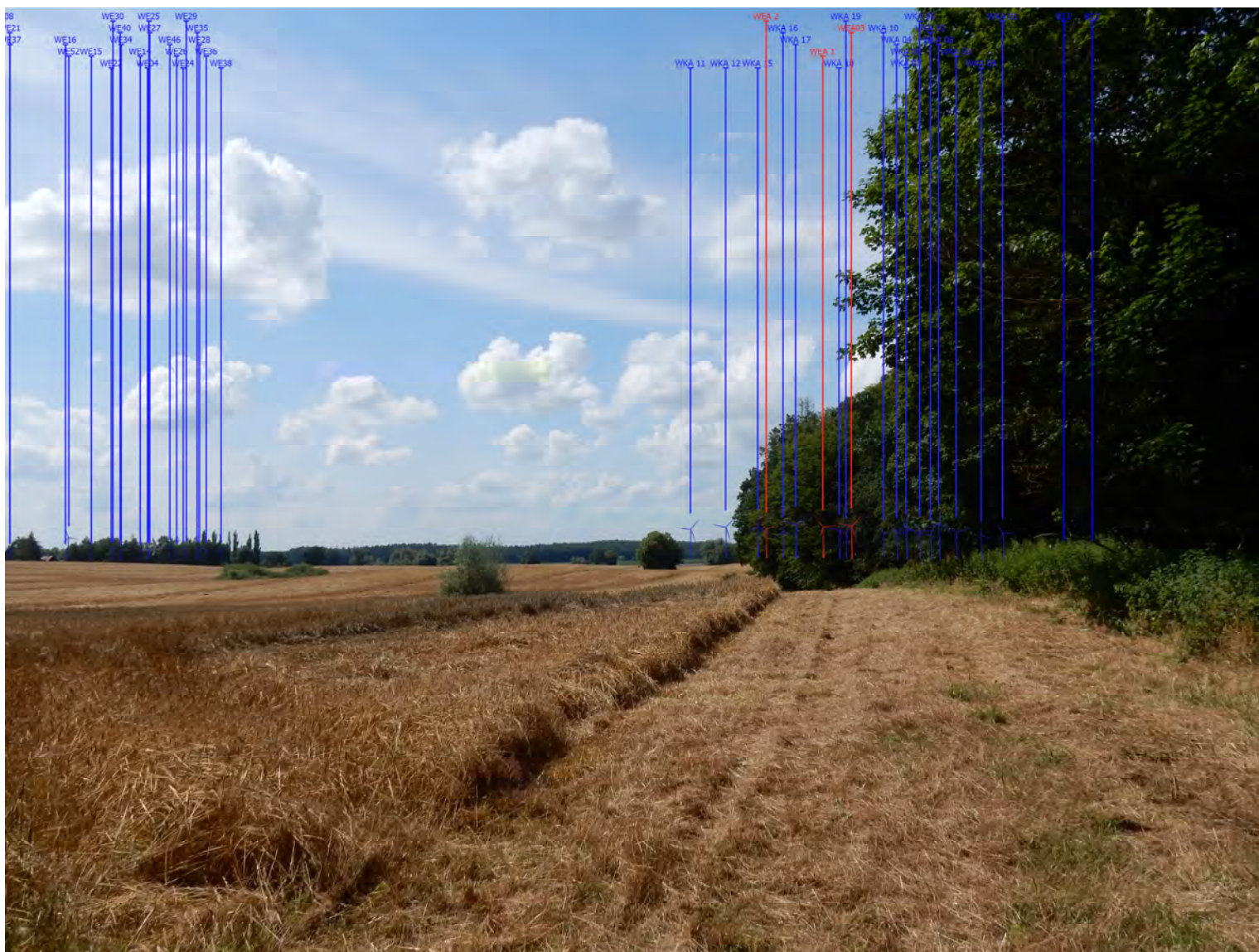
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 11 cm**

Fotoaufnahme: 13.07.2021 12:09:20  
Gesichtsfeld: 84,7°x68,7° Brennweite: 19 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 699.012 Nord: 5.937.323  
Windrichtung: 0° Richtung des Fotos: 231°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP35.01 Ka FP35.01, Sehlsdorf, Gutshaus, von Am Kulturhaus

Erzeugt von:  
enosite GmbH  
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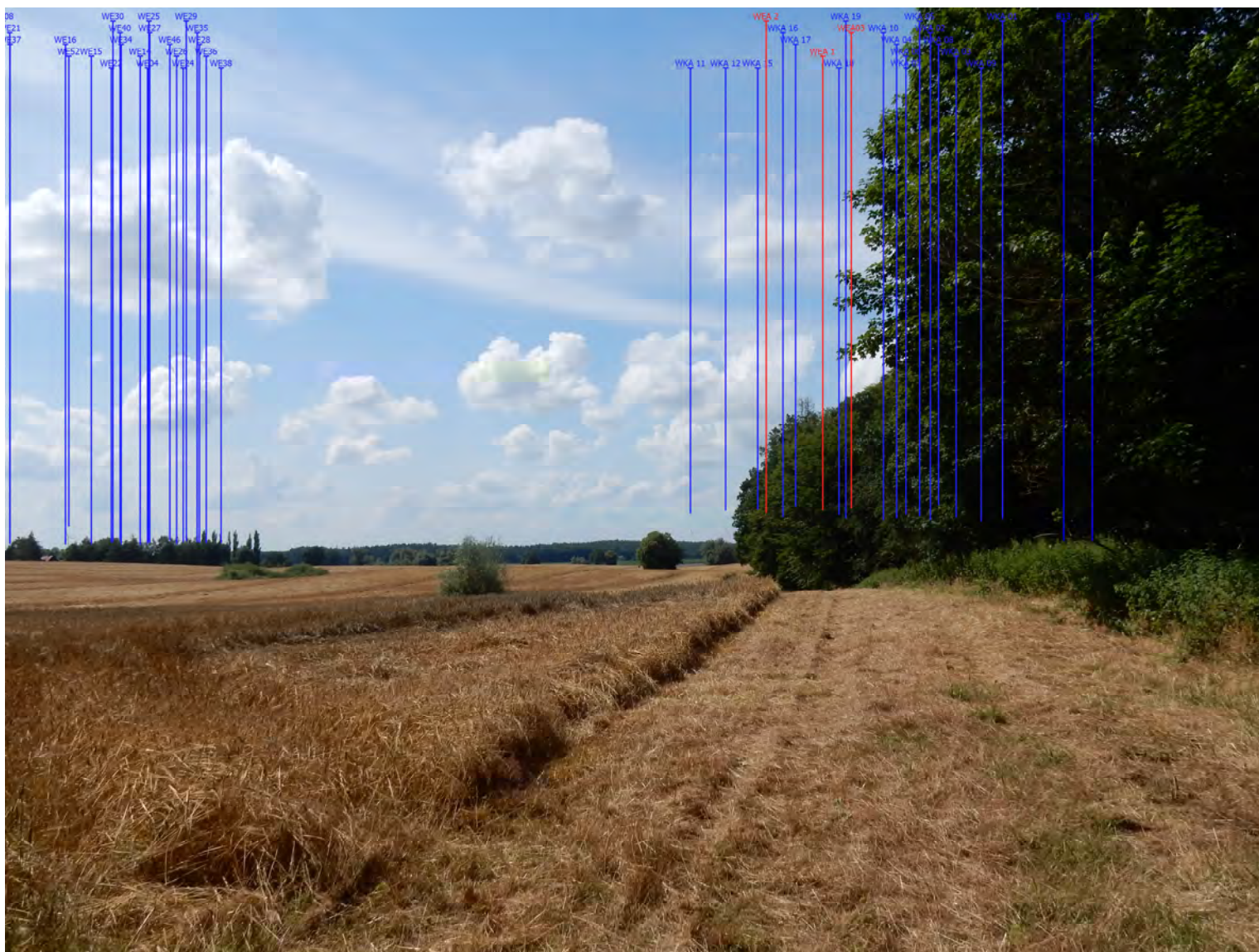
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 12:15:06  
 Gesichtsfeld: 69,0°x54,5° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 698.868 Nord: 5.937.972  
 Windrichtung: 0° Richtung des Fotos: 212°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP35.02 Ka FP35.02, Sehlsdorf, Gutshaus, von Waldrand

Erzeugt von:  
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 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

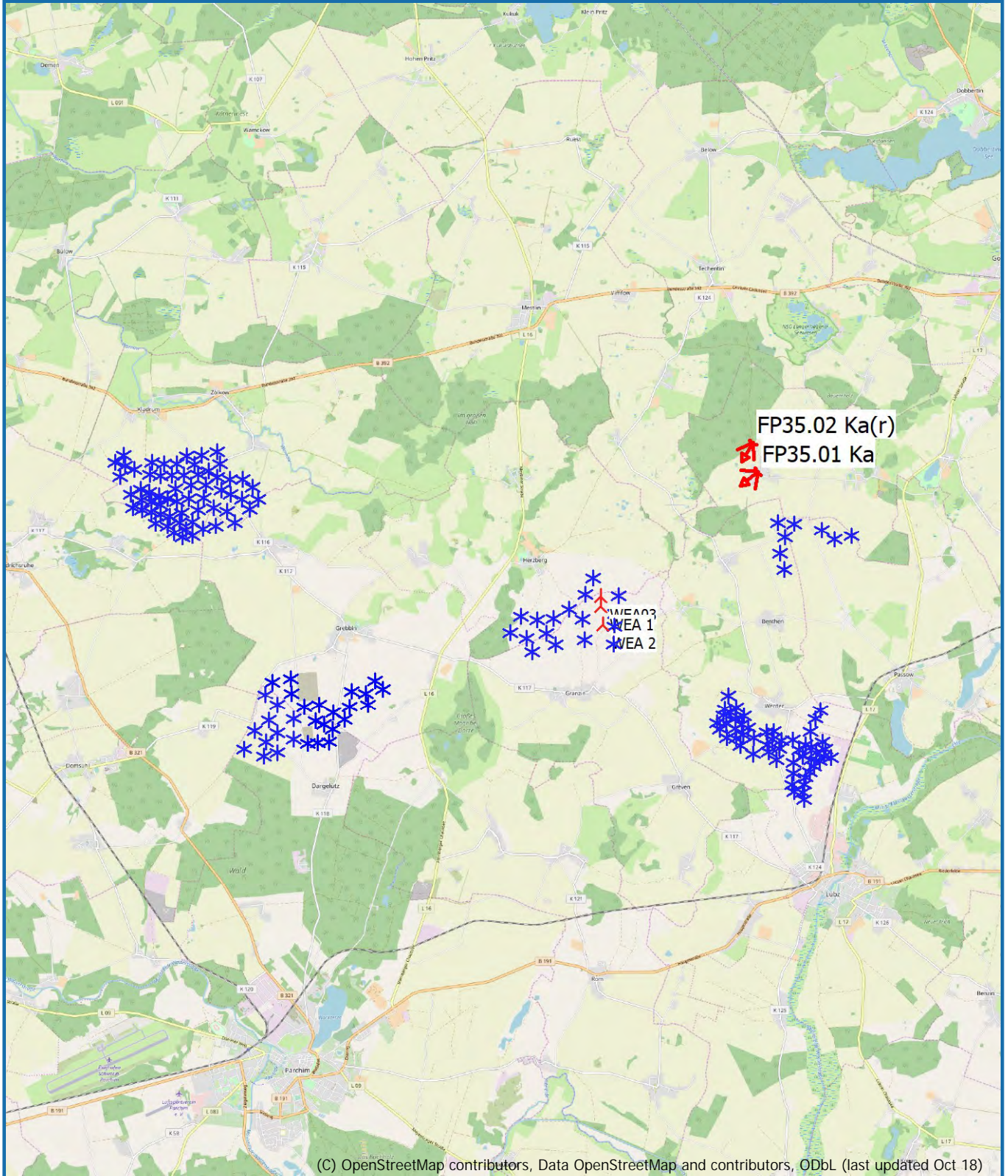
Fotoaufnahme: 13.07.2021 12:15:06  
 Gesichtsfeld: 69,0°x54,5° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 698.868 Nord: 5.937.972  
 Windrichtung: 0° Richtung des Fotos: 212°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP35.02 Ka(r) FP35.02, Sehlsdorf, Gutshaus, von Waldrand (fotorealistisch)

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 Raimund Wörl / raimund.woerl@eno-site.com



VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP35, Sehlsdorf, Gutshaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)



Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.981

Neue WEA (red camera icon)    Existierende WEA (blue asterisk icon)    Kamera (red camera icon)





## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP36, Stralendorf, Fangelturm; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|      | WEA-Typ     |      | Hersteller | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |
|------|-------------|------|------------|----------------------|-------------------|----------------------|---------------|--------------------|-------------------|
|      | Aktuell     |      |            |                      |                   |                      |               | FP36.01 Ka [m]     | FP36.02 Ka(r) [m] |
| B19  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 6.173              | 6.141             |
| B20  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 5.811              | 5.780             |
| B21  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 5.445              | 5.415             |
| B22  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 6.112              | 6.083             |
| B23  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 5.656              | 5.626             |
| B24  | Existierend | Ja   | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 6.547              | 6.512             |
| B25  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 5.077              | 5.043             |
| B26  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 4.937              | 4.903             |
| B27  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 4.776              | 4.740             |
| B28  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 4.954              | 4.918             |
| B29  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 5.160              | 5.124             |
| B30  | Existierend | Ja   | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 85,0          | 5.345              | 5.309             |
| PA1  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.067             | 11.039            |
| PA2  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 10.920             | 10.893            |
| PA3  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 10.579             | 10.553            |
| PA4  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 10.371             | 10.346            |
| PA5  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.293             | 11.266            |
| PA6  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.590             | 11.565            |
| PA7  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.660             | 11.636            |
| PA8  | Existierend | Ja   | VESTAS     | V150-4.2-4.200       | 4.200             | 150,0                | 169,0         | 11.980             | 11.956            |
| WE01 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.809              | 7.795             |
| WE02 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.983              | 7.970             |
| WE03 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.919              | 7.910             |
| WE04 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.205              | 7.188             |
| WE05 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.790              | 7.783             |
| WE06 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.518              | 8.507             |
| WE07 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.420              | 8.409             |
| WE08 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.608              | 7.596             |
| WE09 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 7.852              | 7.840             |
| WE10 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.204              | 8.191             |
| WE11 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.240              | 8.229             |
| WE12 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.263              | 8.253             |
| WE13 | Existierend | Nein | ENERCON    | E-40/5.40-500        | 500               | 40,3                 | 65,0          | 8.012              | 8.002             |
| WE14 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.108              | 7.092             |
| WE15 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.459              | 7.443             |
| WE16 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 7.462              | 7.448             |
| WE17 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 8.657              | 8.644             |
| WE18 | Existierend | Nein | JACOBS     | 43/600-600/100       | 600               | 43,0                 | 60,0          | 8.881              | 8.868             |
| WE19 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 8.705              | 8.696             |
| WE20 | Existierend | Nein | NEG MICON  | NM 43/600-600/150    | 600               | 43,0                 | 60,0          | 8.562              | 8.552             |
| WE21 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 60,0          | 7.643              | 7.630             |
| WE22 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 7.291              | 7.275             |
| WE23 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 7.915              | 7.901             |
| WE24 | Existierend | Nein | NEG MICON  | NM48/750-750/200     | 750               | 48,2                 | 70,0          | 7.113              | 7.095             |
| WE25 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.493              | 7.474             |
| WE26 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.938              | 6.922             |
| WE27 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.333              | 7.315             |
| WE28 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.155              | 7.136             |
| WE29 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.524              | 7.504             |
| WE30 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.521              | 7.504             |
| WE31 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 8.268              | 8.260             |
| WE32 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 8.399              | 8.389             |
| WE33 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.688              | 7.676             |
| WE34 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.117              | 7.102             |
| WE35 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.269              | 7.250             |
| WE36 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.913              | 6.895             |
| WE37 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 7.763              | 7.749             |
| WE38 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 6.938              | 6.919             |
| WE39 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 61,5          | 9.069              | 9.055             |
| WE40 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 7.387              | 7.370             |
| WE41 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 7.943              | 7.938             |
| WE42 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 8.789              | 8.779             |
| WE43 | Existierend | Nein | NEG MICON  | NM52/900-900/200     | 900               | 52,0                 | 73,8          | 8.044              | 8.037             |

(Fortsetzung nächste Seite)...



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP36, Stralendorf, Fangelturn; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller | Typ            | Nennleistung [kW]       | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |        |
|---------|-------------|------------|----------------|-------------------------|----------------------|---------------|--------------------|-------------------|--------|
| Aktuell |             |            |                |                         |                      |               | FP36.01 Ka [m]     | FP36.02 Ka(r) [m] |        |
| WE44    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900                  | 52,0          | 73,8               | 7.975             | 7.968  |
| WE45    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900                  | 52,0          | 73,8               | 7.800             | 7.793  |
| WE46    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900                  | 52,0          | 73,8               | 7.332             | 7.313  |
| WE47    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900                  | 52,0          | 73,8               | 8.132             | 8.124  |
| WE48    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900                  | 52,0          | 73,8               | 8.834             | 8.825  |
| WE49    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900                  | 52,0          | 73,8               | 8.567             | 8.558  |
| WE50    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900                  | 52,0          | 73,8               | 8.788             | 8.778  |
| WE51    | Existierend | Nein       | NEG MICON      | NM52/900-900/200        | 900                  | 52,0          | 73,8               | 8.413             | 8.404  |
| WE52    | Existierend | Ja         | NORDEX         | N117/3600-3.600         | 3.600                | 116,8         | 140,6              | 7.274             | 7.261  |
| WEA 1   | Neu         | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500                | 158,0         | 161,0              | 7.340             | 7.305  |
| WEA 2   | Neu         | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500                | 158,0         | 161,0              | 6.970             | 6.936  |
| WEA03   | Neu         | Ja         | eno            | eno160-6.0MW_rev1-6.000 | 6.000                | 160,0         | 165,0              | 7.529             | 7.494  |
| WKA 01  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600                | 162,0         | 169,0              | 6.570             | 6.530  |
| WKA 02  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600                | 162,0         | 169,0              | 6.120             | 6.081  |
| WKA 03  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600                | 162,0         | 169,0              | 6.577             | 6.539  |
| WKA 04  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600                | 162,0         | 169,0              | 6.343             | 6.305  |
| WKA 05  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600                | 162,0         | 169,0              | 6.711             | 6.674  |
| WKA 06  | Existierend | Ja         | VESTAS         | V150-5.6-5.600          | 5.600                | 150,0         | 169,0              | 7.013             | 6.976  |
| WKA 07  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600                | 162,0         | 169,0              | 7.447             | 7.411  |
| WKA 08  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600                | 162,0         | 169,0              | 7.849             | 7.813  |
| WKA 09  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600                | 162,0         | 169,0              | 6.177             | 6.138  |
| WKA 1   | Existierend | Nein       | ENRONWIND      | EW 1.5s-1.500           | 1.500                | 70,5          | 64,7               | 10.545            | 10.508 |
| WKA 10  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600                | 162,0         | 169,0              | 5.852             | 5.814  |
| WKA 10  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 12.501            | 12.464 |
| WKA 11  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600                | 162,0         | 169,0              | 6.714             | 6.682  |
| WKA 11  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 12.708            | 12.672 |
| WKA 12  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 10.752            | 10.715 |
| WKA 12  | Existierend | Ja         | VESTAS         | V162-5.6-5.600          | 5.600                | 162,0         | 169,0              | 7.068             | 7.034  |
| WKA 13  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 11.000            | 10.963 |
| WKA 14  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 11.164            | 11.127 |
| WKA 15  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500                | 158,0         | 161,0              | 7.330             | 7.296  |
| WKA 15  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 11.328            | 11.292 |
| WKA 16  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500                | 158,0         | 161,0              | 6.502             | 6.467  |
| WKA 16  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 11.495            | 11.459 |
| WKA 17  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 11.663            | 11.627 |
| WKA 17  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500                | 158,0         | 161,0              | 7.715             | 7.681  |
| WKA 18  | Existierend | Ja         | GE WIND ENERGY | 5.5-158 -5.500          | 5.500                | 158,0         | 161,0              | 6.901             | 6.865  |
| WKA 18  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 11.881            | 11.844 |
| WKA 19  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 11.711            | 11.674 |
| WKA 19  | Existierend | Ja         | VESTAS         | V162-6.0-6.000          | 6.000                | 162,0         | 169,0              | 6.154             | 6.117  |
| WKA 2   | Existierend | Nein       | ENRONWIND      | EW 1.5s-1.500           | 1.500                | 70,5          | 64,7               | 10.338            | 10.300 |
| WKA 2   | Existierend | Ja         | NORDEX         | N149/5.7-5.700          | 5.700                | 149,0         | 125,4              | 12.379            | 12.343 |
| WKA 20  | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 12.308            | 12.272 |
| WKA 21  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750                | 66,0          | 67,0               | 11.621            | 11.582 |
| WKA 22  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750                | 66,0          | 67,0               | 11.353            | 11.314 |
| WKA 23  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750                | 66,0          | 67,0               | 10.934            | 10.895 |
| WKA 24  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750                | 66,0          | 67,0               | 10.805            | 10.765 |
| WKA 25  | Existierend | Nein       | VESTAS         | V66-1.750               | 1.750                | 66,0          | 67,0               | 10.536            | 10.496 |
| WKA 26  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 10.601            | 10.563 |
| WKA 27  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 10.736            | 10.698 |
| WKA 28  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 10.324            | 10.286 |
| WKA 29  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 10.885            | 10.847 |
| WKA 3   | Existierend | Nein       | TACKE          | TW 600e-600/200         | 600                  | 46,0          | 60,0               | 11.519            | 11.482 |
| WKA 30  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 11.103            | 11.064 |
| WKA 31  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 10.051            | 10.012 |
| WKA 32  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 10.361            | 10.323 |
| WKA 33  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 10.589            | 10.551 |
| WKA 34  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 10.138            | 10.098 |
| WKA 35  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 10.252            | 10.212 |
| WKA 36  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 10.427            | 10.388 |
| WKA 37  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 10.648            | 10.609 |
| WKA 38  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 11.124            | 11.085 |
| WKA 39  | Existierend | Nein       | ENERCON        | E-70 E4-2.000           | 2.000                | 71,0          | 85,0               | 11.400            | 11.362 |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP36, Stralendorf, Fangelturn; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller | Typ       | Nennleistung [kW]    | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                   |        |
|---------|-------------|------------|-----------|----------------------|----------------------|---------------|--------------------|-------------------|--------|
| Aktuell | Existierend |            |           |                      |                      |               | FP36.01 Ka [m]     | FP36.02 Ka(r) [m] |        |
| WKA 4   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 11.340            | 11.303 |
| WKA 40  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.725            | 11.687 |
| WKA 41  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.279            | 11.241 |
| WKA 42  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.063            | 11.025 |
| WKA 43  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 10.894            | 10.857 |
| WKA 44  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 11.426            | 11.389 |
| WKA 46  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 10.836            | 10.797 |
| WKA 47  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 11.355            | 11.316 |
| WKA 48  | Existierend | Ja         | NORDEX    | N131/3300 DE-3.300   | 3.300                | 131,0         | 164,0              | 11.629            | 11.590 |
| WKA 49  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 11.330            | 11.293 |
| WKA 5   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 11.162            | 11.125 |
| WKA 50  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 11.505            | 11.468 |
| WKA 51  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 11.681            | 11.645 |
| WKA 52  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 11.921            | 11.885 |
| WKA 53  | Existierend | Ja         | eno       | eno 82 2.05-2.050    | 2.050                | 82,4          | 108,0              | 12.716            | 12.679 |
| WKA 54  | Existierend | Nein       | NEG MICON | NM72C/1500-1.500/400 | 1.500                | 72,0          | 80,0               | 11.890            | 11.851 |
| WKA 55  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 11.855            | 11.817 |
| WKA 56  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 12.024            | 11.987 |
| WKA 57  | Existierend | Ja         | eno       | eno 92 2.2-2.200     | 2.200                | 92,8          | 103,0              | 12.205            | 12.167 |
| WKA 58  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 10.840            | 10.804 |
| WKA 59  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 113,5              | 11.076            | 11.040 |
| WKA 6   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 11.568            | 11.529 |
| WKA 60  | Existierend | Nein       | ENERCON   | E-70 E4-2.000        | 2.000                | 71,0          | 85,0               | 10.220            | 10.182 |
| WKA 61  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 10.638            | 10.601 |
| WKA 62  | Existierend | Ja         | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300                | 71,0          | 113,5              | 10.442            | 10.405 |
| WKA 7   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 11.708            | 11.671 |
| WKA 8   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 11.860            | 11.822 |
| WKA 9   | Existierend | Nein       | TACKE     | TW 600e-600/200      | 600                  | 46,0          | 60,0               | 12.007            | 11.970 |





Projekt: WEA: 172  
0108-Granzin

Empfohlener Betrachtungsabstand: 15 cm

Fotoaufnahme: 02.09.2021 12:55:12  
Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 692.856 Nord: 5.927.341  
Windrichtung: 0° Richtung des Fotos: 357°  
Software: windPRO version 3.5.584  
Fotobeschreibung.: FP36.01 Ka FP36.01, Stralendorf, Fangelturn, aus Turm

Erzeugt von:  
enosite GmbH  
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Raimund Wörl / raimund.woerl@eno-site.com



Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

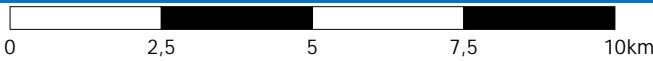
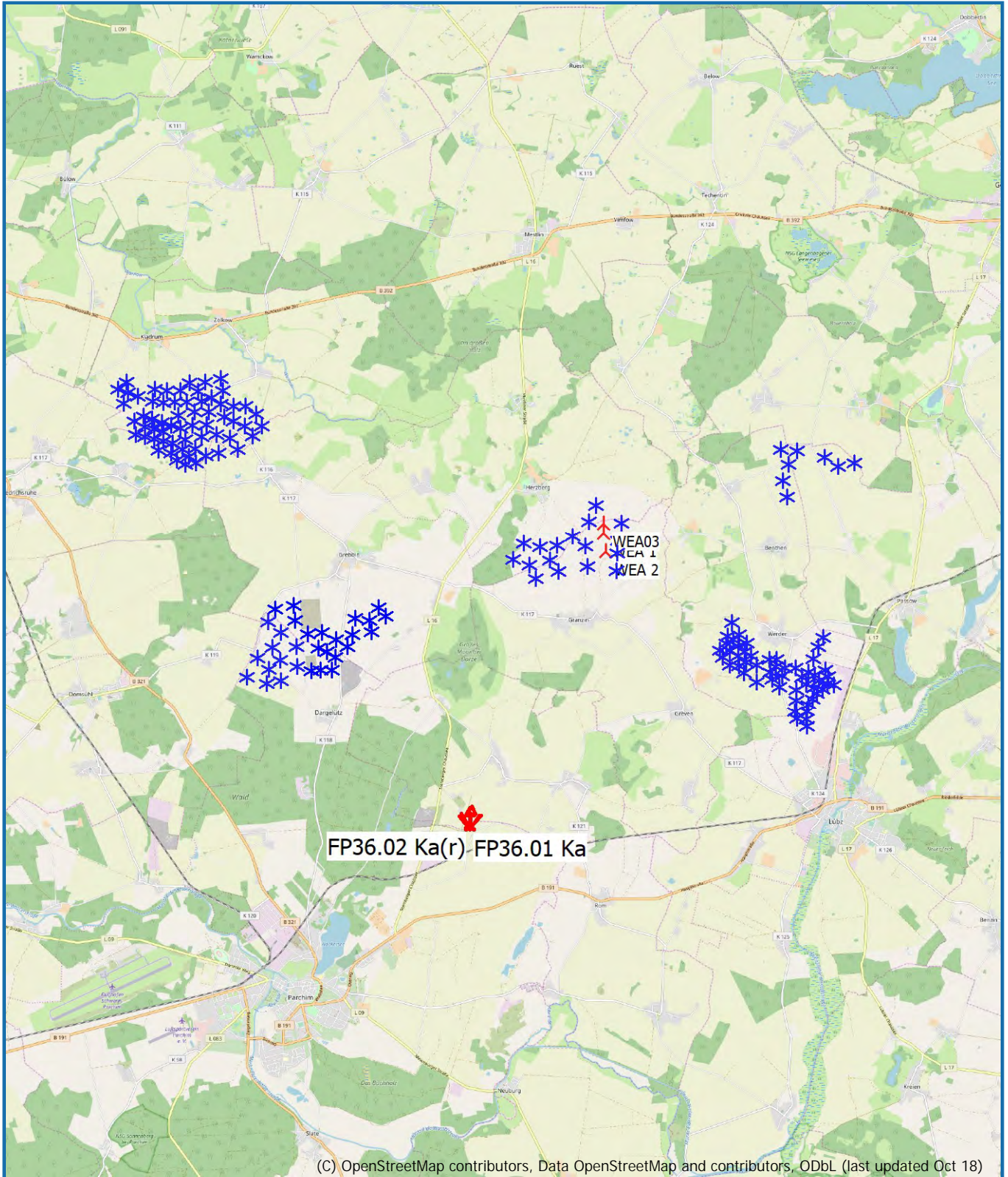
Fotoaufnahme: 02.09.2021 12:58:49  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 692.848 Nord: 5.927.382  
 Windrichtung: 0° Richtung des Fotos: 6°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP36.02 Ka(r) FP36.02, Stralendorf, Fangelturn, direkt davor (fotorealistisch)

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## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP36, Stralendorf, Fangelturn; 2022-08-24



Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.932.308

\* Neue WEA   
 \* Existierende WEA   
 K Kamera











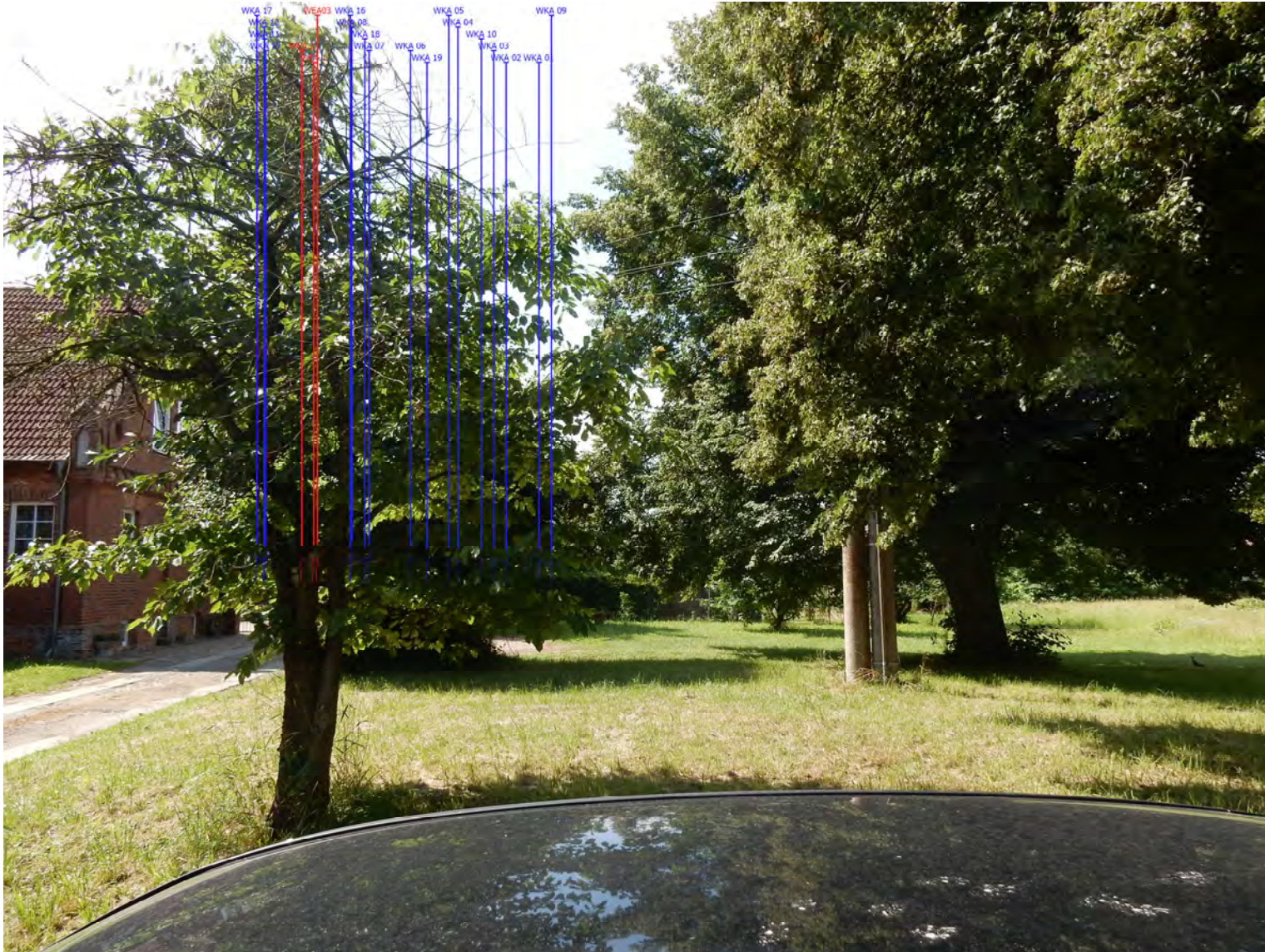


## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP37, Vimfow, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|         |             | WEA-Typ |           | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|---------|-------------|---------|-----------|----------------------|-------------------|----------------------|---------------|--------------------|----------------|
| Aktuell | Hersteller  |         |           |                      |                   |                      |               | FP37.01 Ka [m]     | FP37.02 Ka [m] |
| WKA 4   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 11.464             | 11.463         |
| WKA 40  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 10.391             | 10.385         |
| WKA 41  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 10.871             | 10.870         |
| WKA 42  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.034             | 11.035         |
| WKA 43  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.308             | 11.311         |
| WKA 44  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 11.220             | 11.219         |
| WKA 46  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 10.287             | 10.290         |
| WKA 47  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 10.383             | 10.381         |
| WKA 48  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 10.617             | 10.613         |
| WKA 49  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 11.673             | 11.673         |
| WKA 5   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 11.308             | 11.308         |
| WKA 50  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 11.846             | 11.845         |
| WKA 51  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 12.022             | 12.020         |
| WKA 52  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 12.192             | 12.188         |
| WKA 53  | Existierend | Ja      | eno       | eno 82 2.05-2.050    | 2.050             | 82,4                 | 108,0         | 12.054             | 12.043         |
| WKA 54  | Existierend | Nein    | NEG MICON | NM72C/1500-1.500/400 | 1.500             | 72,0                 | 80,0          | 10.716             | 10.708         |
| WKA 55  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 10.980             | 10.973         |
| WKA 56  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 11.254             | 11.247         |
| WKA 57  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 11.508             | 11.500         |
| WKA 58  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 11.733             | 11.737         |
| WKA 59  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 113,5         | 11.954             | 11.957         |
| WKA 6   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 10.936             | 10.932         |
| WKA 60  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 10.778             | 10.787         |
| WKA 61  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 11.676             | 11.682         |
| WKA 62  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 11.554             | 11.562         |
| WKA 7   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 11.177             | 11.173         |
| WKA 8   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 11.431             | 11.425         |
| WKA 9   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 11.643             | 11.636         |



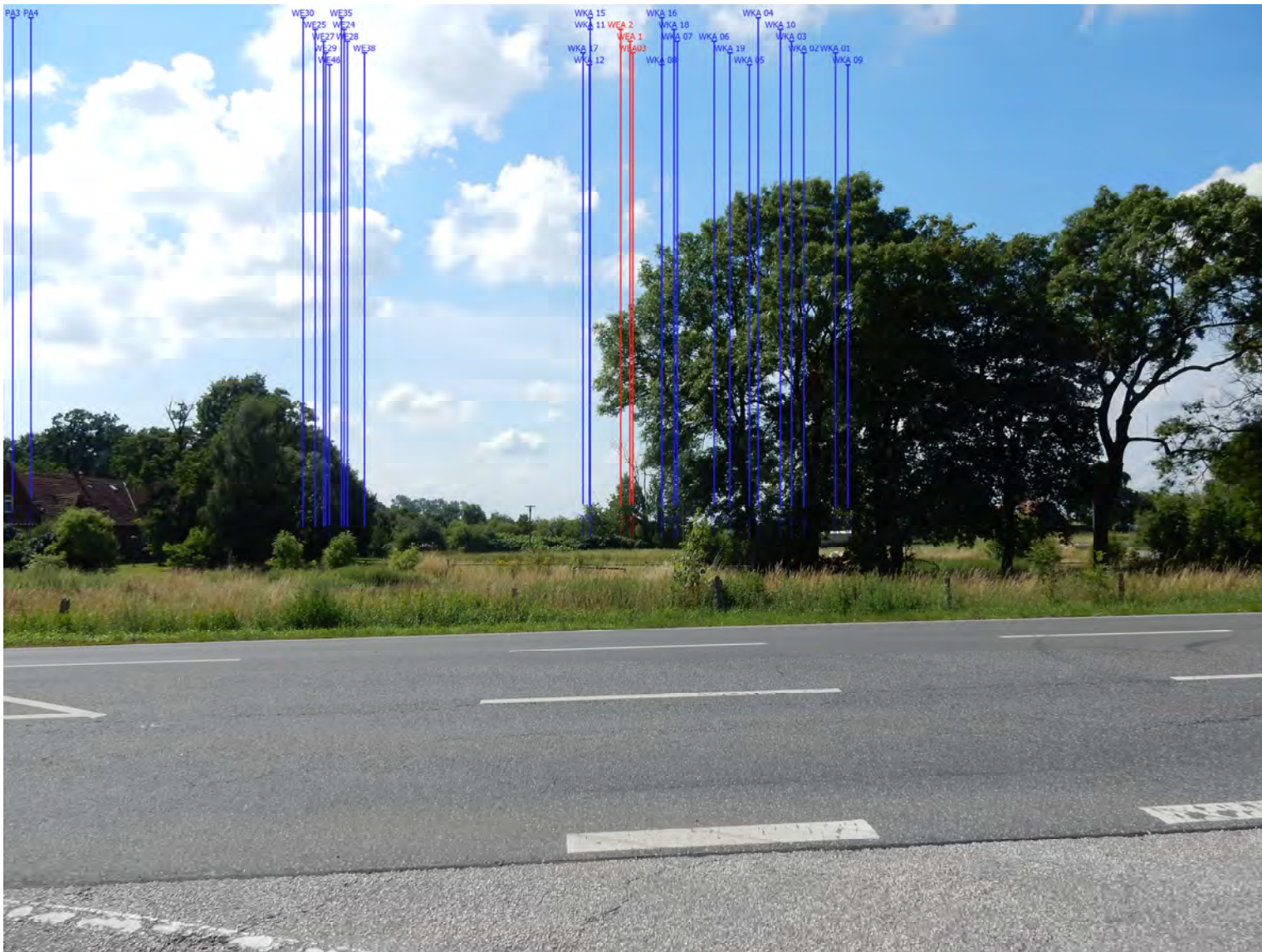
Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

Fotoaufnahme: 13.07.2021 11:29:52  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 696.056 Nord: 5.941.213  
 Windrichtung: 0° Richtung des Fotos: 206°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP37.01 Ka FP37.01, Vimfow, Gutshaus, direkt davor

Erzeugt von:  
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 Raimund Wörl / raimund.woerl@eno-site.com





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 14 cm**

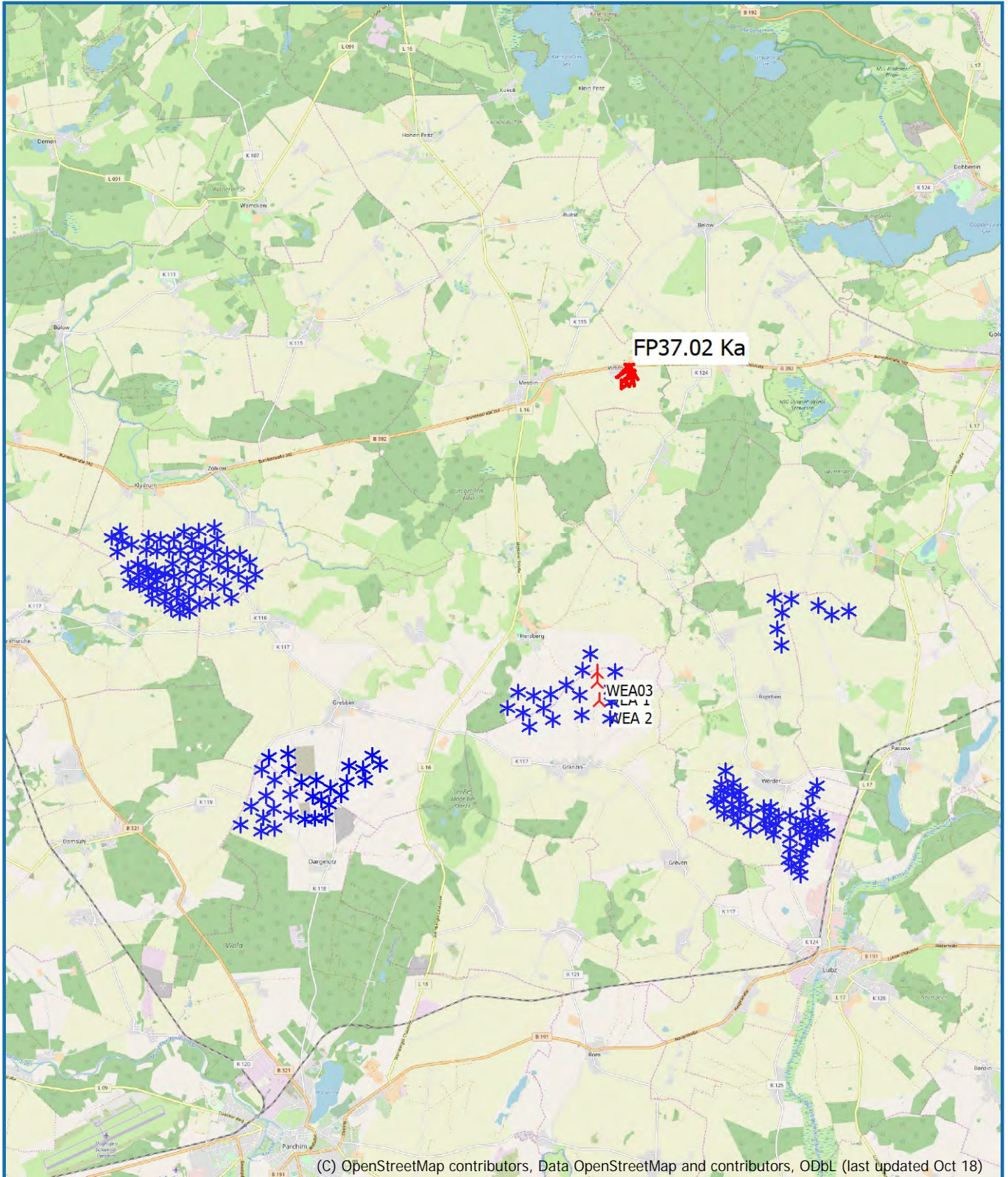
Fotoaufnahme: 13.07.2021 11:31:59  
 Gesichtsfeld: 71,6°x56,8° Brennweite: 24 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 696.010 Nord: 5.941.305  
 Windrichtung: 0° Richtung des Fotos: 186°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP37.02 Ka FP37.02, Vimfow, Gutshaus, von Goldberger Chaussee

Erzeugt von:  
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## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP37, Vimfow, Gutshaus; 2022-08-24



Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.935.648

Neue WEA Existierende WEA Kamera



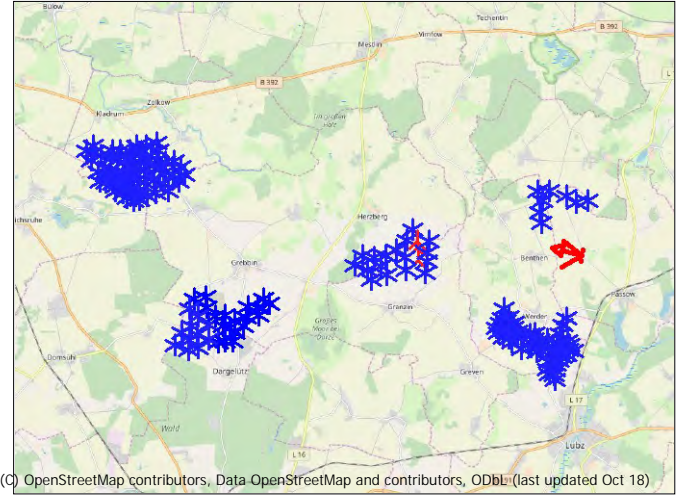
Projekt:  
0108-Granzin

Beschreibung:  
Die enosite GmbH übernimmt hierfür keine Gewähr.

Lizenzierter Anwender:  
enosite GmbH  
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Raimund Wörl / raimund.woerl@eno-site.com  
Berechnet:  
25.08.2022 11:12/3.5.584

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP38, Welzin, Gutshaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

Maßstab 1:250.000  
▲ Neue WEA      ★ Existierende WEA      📷 Kamera

FP38.01 Ka FP38.01, Welzin Gutshaus, von An der Eiche



|                             |         |           |      |              |                           |  |
|-----------------------------|---------|-----------|------|--------------|---------------------------|--|
| UTM (north)-ETRS89 Zone: 32 | Ost     | Nord      | Z    | Wolken       | : teilweise bewölkt (4/8) | Foto-Datei im Querformat: 4608 x 3456 Pixel                              |
| Kamerapunkt                 | 701.049 | 5.934.142 | 69,0 | Sichtbarkeit | : Normal                  | DSCN4969.JPG   |
| Zielpunkt                   | 700.949 | 5.934.145 | 76,2 | Sonne        | : Normal                  | Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm               |
| Foto-Richtung               | 274°    |           |      | Windricht.   | : 0°                      | Fotobeschreibung.: FP38.01 Ka FP38.01, Welzin Gutshaus, von An der Eiche |





## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP38, Welzin, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             |      |                   |                         |               |            |       | Abstand zur Kamera |  |
|---------|-------------|------|-------------------|-------------------------|---------------|------------|-------|--------------------|--|
| Aktuell | Hersteller  | Typ  | Nennleistung [kW] | Rotordurchmesser [m]    | Nabenhöhe [m] | FP38.01 Ka |       |                    |  |
|         |             |      |                   |                         |               | [m]        |       | [m]                |  |
| WE26    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.782              |  |
| WE27    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.343              |  |
| WE28    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.498              |  |
| WE29    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.128              |  |
| WE30    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.168              |  |
| WE31    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.569              |  |
| WE32    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.305              |  |
| WE33    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.550              |  |
| WE34    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.703              |  |
| WE35    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.379              |  |
| WE36    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.761              |  |
| WE37    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.129              |  |
| WE38    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 3.718              |  |
| WE39    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 61,5  | 2.164              |  |
| WE40    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 3.327              |  |
| WE41    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 4.211              |  |
| WE42    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 2.875              |  |
| WE43    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 3.893              |  |
| WE44    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 4.062              |  |
| WE45    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 4.082              |  |
| WE46    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 3.324              |  |
| WE47    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 3.723              |  |
| WE48    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 3.183              |  |
| WE49    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 3.308              |  |
| WE50    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 3.008              |  |
| WE51    | Existierend | Nein | NEG MICON         | NM52/900-900/200        | 900           | 52,0       | 73,8  | 3.428              |  |
| WE52    | Existierend | Ja   | NORDEX            | N117/3600-3.600         | 3.600         | 116,8      | 140,6 | 3.700              |  |
| WEA 1   | Neu         | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 5.457              |  |
| WEA 2   | Neu         | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 5.416              |  |
| WEA03   | Neu         | Ja   | eno               | eno160-6.0MW_rev1-6.000 | 6.000         | 160,0      | 165,0 | 5.472              |  |
| WKA 01  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 7.258              |  |
| WKA 02  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 7.143              |  |
| WKA 03  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 6.890              |  |
| WKA 04  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 6.681              |  |
| WKA 05  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 6.509              |  |
| WKA 06  | Existierend | Ja   | VESTAS            | V150-5.6-5.600          | 5.600         | 150,0      | 169,0 | 6.165              |  |
| WKA 07  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 5.822              |  |
| WKA 08  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 5.691              |  |
| WKA 09  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 7.506              |  |
| WKA 1   | Existierend | Nein | ENRONWIND         | EW 1.5s-1.500           | 1.500         | 70,5       | 64,7  | 14.924             |  |
| WKA 10  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 7.036              |  |
| WKA 10  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 16.515             |  |
| WKA 11  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 5.209              |  |
| WKA 11  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 16.759             |  |
| WKA 12  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 15.091             |  |
| WKA 12  | Existierend | Ja   | VESTAS            | V162-5.6-5.600          | 5.600         | 162,0      | 169,0 | 5.149              |  |
| WKA 13  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 15.332             |  |
| WKA 14  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 15.542             |  |
| WKA 15  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 5.137              |  |
| WKA 15  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 15.751             |  |
| WKA 16  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 5.841              |  |
| WKA 16  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 15.961             |  |
| WKA 17  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 16.170             |  |
| WKA 17  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 5.079              |  |
| WKA 18  | Existierend | Ja   | GE WIND ENERGY    | 5.5-158 -5.500          | 5.500         | 158,0      | 161,0 | 5.861              |  |
| WKA 18  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 16.077             |  |
| WKA 19  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 15.873             |  |
| WKA 19  | Existierend | Ja   | VESTAS            | V162-6.0-6.000          | 6.000         | 162,0      | 169,0 | 6.501              |  |
| WKA 2   | Existierend | Nein | ENRONWIND         | EW 1.5s-1.500           | 1.500         | 70,5       | 64,7  | 14.757             |  |
| WKA 2   | Existierend | Ja   | NORDEX            | N149/5.7-5.700          | 5.700         | 149,0      | 125,4 | 16.566             |  |
| WKA 20  | Existierend | Nein | TACKE             | TW 600e-600/200         | 600           | 46,0       | 60,0  | 16.289             |  |
| WKA 21  | Existierend | Nein | VESTAS            | V66-1.750               | 1.750         | 66,0       | 67,0  | 14.565             |  |
| WKA 22  | Existierend | Nein | VESTAS            | V66-1.750               | 1.750         | 66,0       | 67,0  | 14.444             |  |

(Fortsetzung nächste Seite)...

## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP38, Welzin, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

| WEA-Typ |             | Hersteller |            | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |  |
|---------|-------------|------------|------------|----------------------|-------------------|----------------------|---------------|--------------------|--|
| Aktuell | Hersteller  | Hersteller | FP38.01 Ka |                      |                   |                      |               | [m]                |  |
| WKA 23  | Existierend | Nein       | VESTAS     | V66-1.750            | 1.750             | 66,0                 | 67,0          | 14.134             |  |
| WKA 24  | Existierend | Nein       | VESTAS     | V66-1.750            | 1.750             | 66,0                 | 67,0          | 13.861             |  |
| WKA 25  | Existierend | Nein       | VESTAS     | V66-1.750            | 1.750             | 66,0                 | 67,0          | 13.603             |  |
| WKA 26  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.810             |  |
| WKA 27  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.717             |  |
| WKA 28  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.547             |  |
| WKA 29  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.636             |  |
| WKA 3   | Existierend | Nein       | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 15.643             |  |
| WKA 30  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.645             |  |
| WKA 31  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.863             |  |
| WKA 32  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.068             |  |
| WKA 33  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.384             |  |
| WKA 34  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.576             |  |
| WKA 35  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.425             |  |
| WKA 36  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 13.789             |  |
| WKA 37  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.063             |  |
| WKA 38  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.426             |  |
| WKA 39  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.860             |  |
| WKA 4   | Existierend | Nein       | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 15.430             |  |
| WKA 40  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.883             |  |
| WKA 41  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.971             |  |
| WKA 42  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.964             |  |
| WKA 43  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 15.062             |  |
| WKA 44  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 15.306             |  |
| WKA 46  | Existierend | Ja         | NORDEX     | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 14.282             |  |
| WKA 47  | Existierend | Ja         | NORDEX     | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 14.662             |  |
| WKA 48  | Existierend | Ja         | NORDEX     | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 14.991             |  |
| WKA 49  | Existierend | Ja         | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 15.571             |  |
| WKA 5   | Existierend | Nein       | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 15.217             |  |
| WKA 50  | Existierend | Ja         | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 15.791             |  |
| WKA 51  | Existierend | Ja         | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 16.011             |  |
| WKA 52  | Existierend | Ja         | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 16.261             |  |
| WKA 53  | Existierend | Ja         | eno        | eno 82 2.05-2.050    | 2.050             | 82,4                 | 108,0         | 16.597             |  |
| WKA 54  | Existierend | Nein       | NEG MICON  | NM72C/1500-1.500/400 | 1.500             | 72,0                 | 80,0          | 15.210             |  |
| WKA 55  | Existierend | Ja         | eno        | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 15.378             |  |
| WKA 56  | Existierend | Ja         | eno        | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 15.667             |  |
| WKA 57  | Existierend | Ja         | eno        | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 15.944             |  |
| WKA 58  | Existierend | Ja         | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 15.335             |  |
| WKA 59  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 113,5         | 15.625             |  |
| WKA 6   | Existierend | Nein       | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 15.184             |  |
| WKA 60  | Existierend | Nein       | ENERCON    | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 14.276             |  |
| WKA 61  | Existierend | Ja         | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 15.177             |  |
| WKA 62  | Existierend | Ja         | ENERCON    | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 14.976             |  |
| WKA 7   | Existierend | Nein       | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 15.435             |  |
| WKA 8   | Existierend | Nein       | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 15.698             |  |
| WKA 9   | Existierend | Nein       | TACKE      | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 15.928             |  |





Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

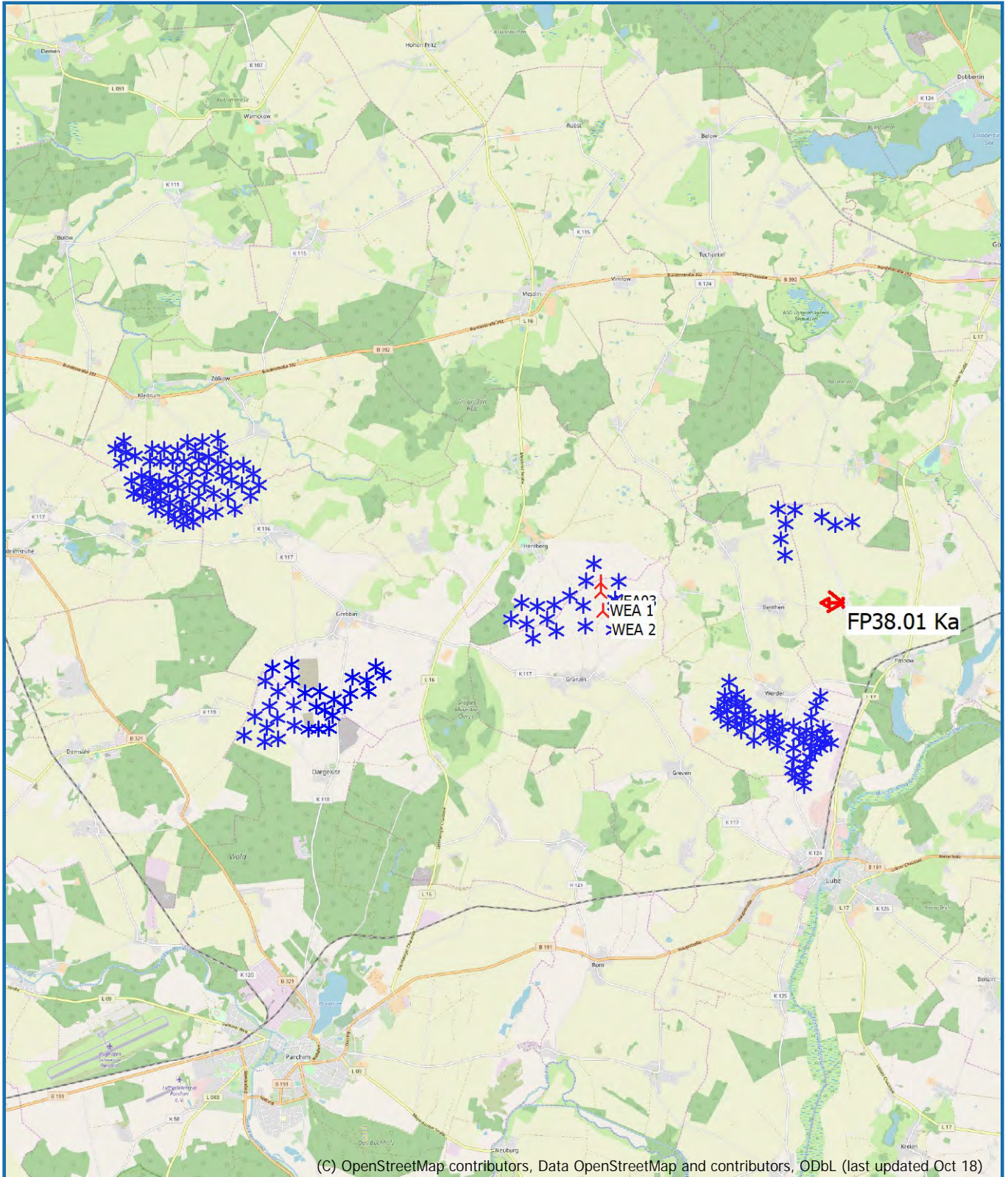
Fotoaufnahme: 13.07.2021 13:36:37  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 701.049 Nord: 5.934.142  
 Windrichtung: 0° Richtung des Fotos: 274°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP38.01 Ka FP38.01, Welzin Gutshaus, von An der Eiche

Erzeugt von:  
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 +49(0)38296 747 400  
 Raimund Wörl / raimund.woerl@eno-site.com



## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP38, Welzin, Gutshaus; 2022-08-24



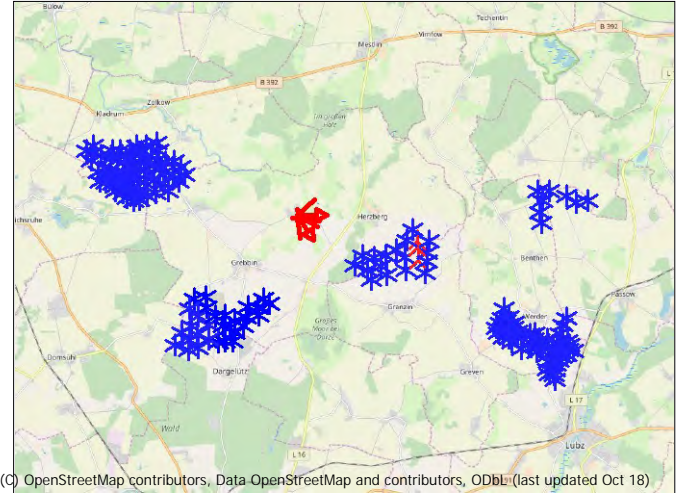
Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

- Neue WEA
- Existierende WEA
- Kamera



## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP39, Woeten, Gutshaus; 2022-08-24



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL (last updated Oct 18)

Maßstab 1:250.000  
 ▲ Neue WEA    ★ Existierende WEA    📷 Kamera

FP39.01 Ka FP39.01, Woeten, Gutshaus, von Grebbiner Straße



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken :Schwer bedeckt mit Wolken (6/8) Foto-DatEI im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 691.544 5.935.086 61.5 SichtbarkeIt Normal Normal  
 Zielpunkt 691.645 5.934.981 71.1 Sonne :Normal  
 Foto-Richtung 138° Windricht. :0°  
 Geschichtsfeld: 69.4°x54.9° Brennweite: 25 mm Film: 35x26 mm  
 Fotobeschreibung: FP39.01 Ka FP39.01, Woeten, Gutshaus, von Grebbiner Straße

FP39.02 Ka FP39.02, Woeten, Gutshaus, von Grebbiner Straße



UTM (north)-ETRS89 Zone: 32 Ost Nord Z Wolken :Schwer bedeckt mit Wolken (6/8) Foto-DatEI im Querformat: 4608 x 3456 Pixel  
 Kamerapunkt 691.544 5.935.065 61.2 SichtbarkeIt Normal Normal  
 Zielpunkt 691.720 5.935.088 69.6 Sonne :Normal  
 Foto-Richtung 84° Windricht. :0°  
 Geschichtsfeld: 69.4°x54.9° Brennweite: 25 mm Film: 35x26 mm  
 Fotobeschreibung: FP39.02 Ka FP39.02, Woeten, Gutshaus, von Grebbiner Straße

## WEA-Platzierung

|     | WEA-Typ     |            |         | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |       |
|-----|-------------|------------|---------|-------------------|----------------------|---------------|--------------------|----------------|-------|
|     | Aktuell     | Hersteller | Typ     |                   |                      |               | FP39.01 Ka [m]     | FP39.02 Ka [m] |       |
| B01 | Existierend | Ja         | ENERCON | E-82-2.000        | 2.000                | 82,0          | 78,3               | 4.410          | 4.410 |
| B02 | Existierend | Ja         | ENERCON | E-82-2.000        | 2.000                | 82,0          | 78,3               | 4.042          | 4.042 |
| B03 | Existierend | Ja         | ENERCON | E-82-2.000        | 2.000                | 82,0          | 78,3               | 4.263          | 4.263 |
| B04 | Existierend | Ja         | ENERCON | E-82-2.000        | 2.000                | 82,0          | 108,3              | 3.401          | 3.401 |
| B05 | Existierend | Ja         | ENERCON | E-82-2.000        | 2.000                | 82,0          | 108,3              | 3.311          | 3.311 |
| B06 | Existierend | Ja         | ENERCON | E-82-2.000        | 2.000                | 82,0          | 78,3               | 4.293          | 4.293 |
| B07 | Existierend | Ja         | ENERCON | E-82 E2-2.300     | 2.300                | 82,0          | 108,4              | 3.531          | 3.531 |
| B08 | Existierend | Ja         | ENERCON | E-82 E2-2.300     | 2.300                | 82,0          | 108,4              | 3.753          | 3.753 |
| B09 | Existierend | Ja         | ENERCON | E-82 E2-2.300     | 2.300                | 82,0          | 108,4              | 4.062          | 4.062 |
| B10 | Existierend | Ja         | ENERCON | E-82 E2-2.300     | 2.300                | 82,0          | 108,4              | 4.040          | 4.040 |
| B11 | Existierend | Ja         | ENERCON | E-82 E2-2.300     | 2.300                | 82,0          | 108,4              | 4.056          | 4.056 |
| B12 | Existierend | Ja         | ENERCON | E-82 E2-2.300     | 2.300                | 82,0          | 108,4              | 2.968          | 2.968 |
| B13 | Existierend | Ja         | ENERCON | E-82 E2-2.300     | 2.300                | 82,0          | 108,4              | 3.082          | 3.082 |
| B14 | Existierend | Ja         | ENERCON | E-70 E4-2.000     | 2.000                | 71,0          | 85,0               | 4.668          | 4.668 |
| B15 | Existierend | Ja         | ENERCON | E-70 E4-2.000     | 2.000                | 71,0          | 85,0               | 4.667          | 4.667 |
| B16 | Existierend | Ja         | ENERCON | E-70 E4-2.000     | 2.000                | 71,0          | 85,0               | 5.046          | 5.046 |
| B17 | Existierend | Ja         | ENERCON | E-70 E4-2.000     | 2.000                | 71,0          | 85,0               | 5.141          | 5.141 |
| B18 | Existierend | Ja         | ENERCON | E-70 E4-2.000     | 2.000                | 71,0          | 85,0               | 5.029          | 5.029 |

(Fortsetzung nächste Seite)...







## VISUAL - Hauptergebnis

Berechnung: Granzin, Visualisierung; FP39, Woeten, Gutshaus; 2022-08-24

...(Fortsetzung von vorheriger Seite)

|         |             | WEA-Typ |           | Typ                  | Nennleistung [kW] | Rotordurchmesser [m] | Nabenhöhe [m] | Abstand zur Kamera |                |
|---------|-------------|---------|-----------|----------------------|-------------------|----------------------|---------------|--------------------|----------------|
| Aktuell | Hersteller  |         |           |                      |                   |                      |               | FP39.01 Ka [m]     | FP39.02 Ka [m] |
| WKA 4   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 5.916              | 5.916          |
| WKA 40  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 5.507              | 5.507          |
| WKA 41  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 5.489              | 5.489          |
| WKA 42  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 5.456              | 5.456          |
| WKA 43  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 5.537              | 5.537          |
| WKA 44  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 5.810              | 5.810          |
| WKA 46  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 4.810              | 4.810          |
| WKA 47  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 5.237              | 5.237          |
| WKA 48  | Existierend | Ja      | NORDEX    | N131/3300 DE-3.300   | 3.300             | 131,0                | 164,0         | 5.571              | 5.571          |
| WKA 49  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 6.049              | 6.049          |
| WKA 5   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 5.701              | 5.701          |
| WKA 50  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 6.269              | 6.269          |
| WKA 51  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 6.490              | 6.490          |
| WKA 52  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 6.743              | 6.743          |
| WKA 53  | Existierend | Ja      | eno       | eno 82 2.05-2.050    | 2.050             | 82,4                 | 108,0         | 7.144              | 7.144          |
| WKA 54  | Existierend | Nein    | NEG MICON | NM72C/1500-1.500/400 | 1.500             | 72,0                 | 80,0          | 5.812              | 5.812          |
| WKA 55  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 5.944              | 5.944          |
| WKA 56  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 6.221              | 6.221          |
| WKA 57  | Existierend | Ja      | eno       | eno 92 2.2-2.200     | 2.200             | 92,8                 | 103,0         | 6.492              | 6.492          |
| WKA 58  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 5.805              | 5.805          |
| WKA 59  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 113,5         | 6.095              | 6.095          |
| WKA 6   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 5.723              | 5.723          |
| WKA 60  | Existierend | Nein    | ENERCON   | E-70 E4-2.000        | 2.000             | 71,0                 | 85,0          | 4.746              | 4.746          |
| WKA 61  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 5.650              | 5.650          |
| WKA 62  | Existierend | Ja      | ENERCON   | E-70 E4 2,3 MW-2.300 | 2.300             | 71,0                 | 113,5         | 5.451              | 5.451          |
| WKA 7   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 5.966              | 5.966          |
| WKA 8   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 6.221              | 6.221          |
| WKA 9   | Existierend | Nein    | TACKE     | TW 600e-600/200      | 600               | 46,0                 | 60,0          | 6.446              | 6.446          |





Projekt: WEA: 172  
0108-Granzin

Empfohlener Betrachtungsabstand: 15 cm

Fotoaufnahme: 02.09.2021 14:48:07  
 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 691.564 Nord: 5.935.065  
 Windrichtung: 0° Richtung des Fotos: 138°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP39.01 Ka FP39.01, Woeten, Gutshaus, von Grebbiner Straße

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Projekt: WEA: 172  
0108-Granzin

**Empfohlener Betrachtungsabstand: 15 cm**

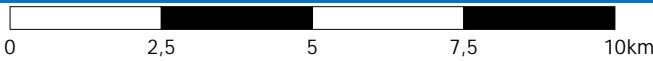
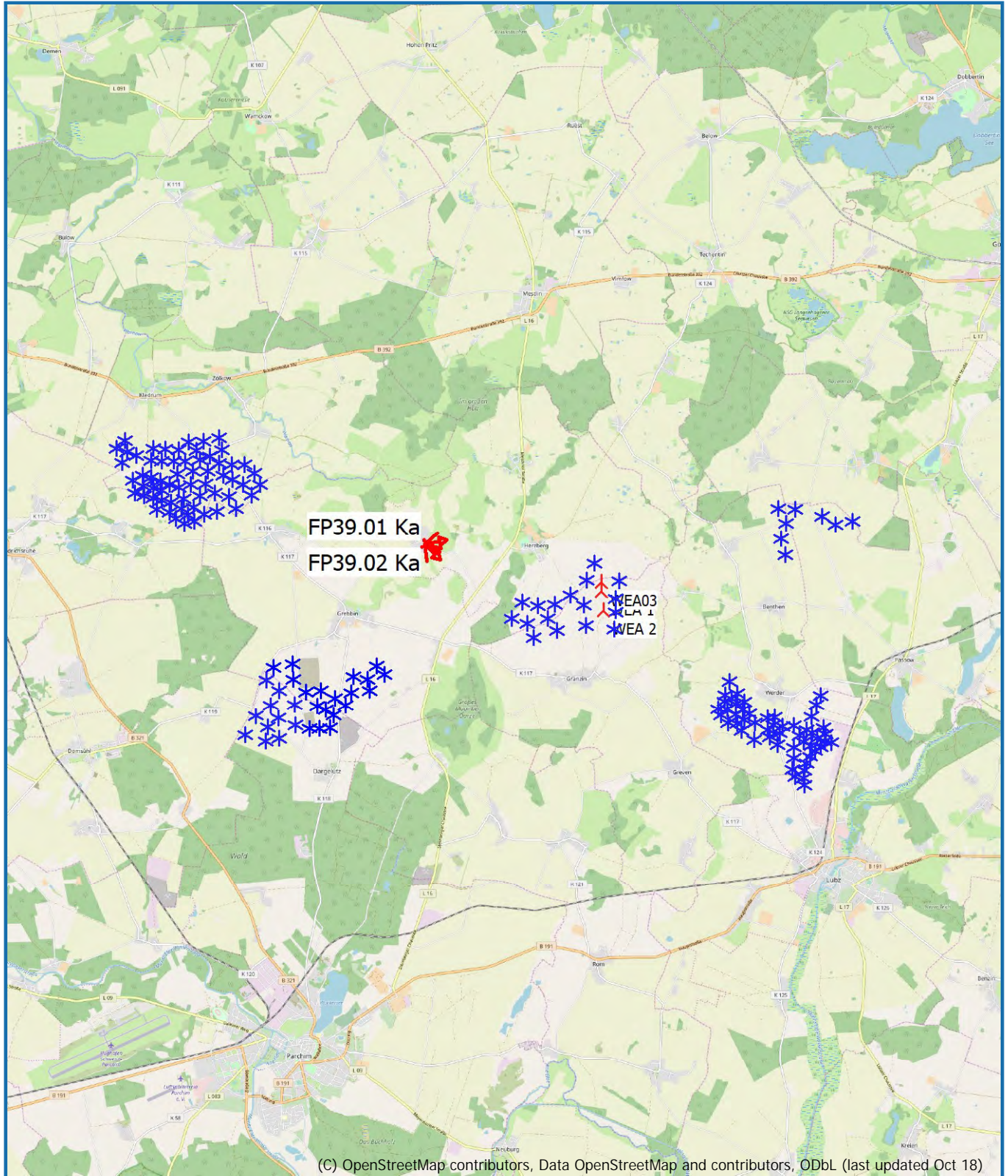
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 Gesichtsfeld: 69,4°x54,9° Brennweite: 25 mm Film: 35x26 mm Pixel: 4608x3456  
 Kamerapunkt: UTM (north)-ETRS89 Zone: 32 Ost: 691.564 Nord: 5.935.065  
 Windrichtung: 0° Richtung des Fotos: 84°  
 Software: windPRO version 3.5.584  
 Fotobeschreibung.: FP39.02 Ka FP39.02, Woeten, Gutshaus, von Grebbiner Straße

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## VISUAL - Karte

Berechnung: Granzin, Visualisierung; FP39, Woeten, Gutshaus; 2022-08-24



Karte: EMD OpenStreetMap, Maßstab 1:125.000, Mitte: UTM (north)-ETRS89 Zone: 32 Ost: 692.844 Nord: 5.933.632

📷 Neue WEA    
 ✳️ Existierende WEA    
 📷 Kamera