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2022-06-27

Default Power Reduction Mode Allocation List EEG (TR 10)

VestasOnline® Business VestasOnline® Compact



Original Instruction: T09 0083-4456 VER 02

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History of this Document

Version no.	Date	VOB version	Description of changes	Technical approver
0	2019-08-15		Initial version	KR
1	2020-10-26		Updated after feedback from certifying body	KR
2	2022-06-27		Addded new turbine type, revised list	KR

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Introduction

This document introduces the default EEG Power Reduction Mode Allocation list according to EEG respectively Technische Richtlinie für Windenergieanlagen Teil 10 Bestimmung der Standortgüte nach Inbetriebnahme, Revision 2, Stand 31.03.2021 (TR 10).

This EEG Event Allocation list is only valid for the following turbine variants: **NOTE**

- V112 3.3/3.45 MW, 50/60 Hz
- V117 3.3/3.45 MW, 50/60 Hz
- V126 3.3/3.45/3.6 MW, 50/60 Hz
- V136 /3.45/3.6 MW, 50/60 Hz
- V136 4.0/4.2 MW, 50/60 Hz
- V150 4.0/4.2 MW, 50/60 Hz
- V150 5.6/6.0 MW, 50/60 Hz
- V162 5.6/6.0/6.2 MW, 50/60 Hz

This EEG Event Allocation list is valid for software releases and subreleases: 2021.XX.XX (XX denotes the number of the sub-release and the built version

Explanation of columns in default power reduction mode allocation list

No	Number of the Power Reduction Mode
Int./Ext.	Internally (WTG) or Externally (Remote) initiated derate mode
Description	Description of the event
Report Category	Default allocation of Power Reduction Modes in VestasOnline® Business and VestasOnline® Compact



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2 Default Power Reduction Mode Allocation List

No	Int./Ext	Description	EEG category
0	internal	No power reduction	0 - Intended Operation
1	internal	Gear oil cold reduction	0 - Intended Operation
2	internal	Gear oil hot reduction	2 - Restrictions or unavailable for other reasons
3	internal	Generator hot reduction	2 - Restrictions or unavailable for other reasons
4	internal	Transformer hot reduction	2 - Restrictions or unavailable for other reasons
5	internal	Low noise mode 1 reduction	1 - Restrictions for licensing reasons
6	internal	Low noise mode 2 reduction	1 - Restrictions for licensing reasons
7	internal	Low noise mode 3 reduction	1 - Restrictions for licensing reasons
8	internal	Low noise mode 4 reduction	1 - Restrictions for licensing reasons
9	internal	Low noise mode 5 reduction	1 - Restrictions for licensing reasons
10	internal	Low noise mode 6 reduction	1 - Restrictions for licensing reasons
11	internal	Low noise mode 7 reduction	1 - Restrictions for licensing reasons
12	internal	Low noise mode 8 reduction	1 - Restrictions for licensing reasons
13	internal	Low noise mode 9 reduction	1 - Restrictions for licensing reasons
14	internal	Low noise mode 10 reduction	1 - Restrictions for licensing reasons
15	internal	Ext. 4-20mA power mode	1 - Restrictions for licensing reasons
16	internal	Frequency power mode	1 - Restrictions for licensing reasons
17	internal	Entry ramp up power mode	1 - Restrictions for licensing reasons
18	internal	WMS power mode (remote set point)	Will be reflected in External derate state
19	internal	Ambient temperature power mode	1 - Restrictions for licensing reasons
20	internal	Increased power mode	0 - Intended Operation
21	internal	Tower vibration	2 - Restrictions or unavailable for other reasons
22	internal	Edgewise vibration	2 - Restrictions or unavailable for other reasons
23	internal	Generator hot derate mode	2 - Restrictions or unavailable for other reasons
24	internal	Hot VRCC	2 - Restrictions or unavailable for other reasons
25	internal	High Voltage	0 - Intended Operation
26	internal	Low Voltage	0 - Intended Operation
27	internal	Wind	0 - Intended Operation
28	internal	User	2 - Restrictions or unavailable for other reasons
29	internal	Hot bearing	2 - Restrictions or unavailable for other reasons
30	internal	Hot Top Controller	2 - Restrictions or unavailable for other reasons
31	internal	Hot IGBT	2 - Restrictions or unavailable for other reasons
32	internal	Gear heating	0 - Intended Operation
33	internal	Sector Wind Direction System	1 - Restrictions for licensing reasons
34	internal	Power Curtailed	2 - Restrictions or unavailable for other reasons
35	internal	Cold generator	0 - Intended Operation
36	internal	Individual pitch control out of order	2 - Restrictions or unavailable for other reasons
37	internal	Load and Power Modes	1 - Restrictions for licensing reasons
38	internal	Reactive Power Control (Prio. Q > P)	1 - Restrictions for licensing reasons
39	internal	Gearbox Inline Filter	2 - Restrictions or unavailable for other reasons
40	internal	Cold Gearbox	0 - Intended Operation
41	internal	Hot Hydraulic System	2 - Restrictions or unavailable for other reasons
42	internal	Yawing System Derates Speed	0 - Intended Operation

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43	internal	Fast Run Back	1 - Restrictions for licensing reasons
44	internal	Load Dep Operation High Loading	0 - Intended Operation
45	internal	Load Dep Operation Safe Mode	2 - Restrictions or unavailable for other reasons
46	internal	PTR Lubrication Pump Fault	2 - Restrictions or unavailable for other reasons
47	internal	PTR Lubrication Valve Fault	2 - Restrictions or unavailable for other reasons
48	internal	PTR Lubrication System Validation	0 - Intended Operation
49	internal	Load Power Modes SafeMode	2 - Restrictions or unavailable for other reasons
50	internal	High Wind Operation	0 - Intended Operation
51	internal	Converter Reduced Number Of Power Modules	2 - Restrictions or unavailable for other reasons
52	internal	High Converter Cooling Water Temp	2 - Restrictions or unavailable for other reasons
53	internal	Cold Generator Slip Ring	0 - Intended Operation
54	internal	Warm Generator Slip Ring	2 - Restrictions or unavailable for other reasons
55	internal	Locked Speed Operations	0 - Intended Operation
56	internal	High Wind Derate	0 - Intended Operation
57	Internal	Converter Torque Limited	2 - Restrictions or unavailable for other reasons
58	Internal	Blade Edgewise Sensor Status Invalid	2 - Restrictions or unavailable for other reasons
1	external	Utility	3 - Restrictions due to feed-in management
1 2	external external	Utility Owner	3 - Restrictions due to feed-in management2 - Restrictions or unavailable for other reasons
		•	_
2	external	Owner	2 - Restrictions or unavailable for other reasons
2	external external	Owner Manufacturer	2 - Restrictions or unavailable for other reasons2 - Restrictions or unavailable for other reasons
2 3 4	external external external	Owner Manufacturer Power management	2 - Restrictions or unavailable for other reasons2 - Restrictions or unavailable for other reasons3 - Restrictions due to feed-in management
2 3 4 5	external external external	Owner Manufacturer Power management Curtailment	 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 3 - Restrictions due to feed-in management 4 - Restrictions due to optimized marketing
2 3 4 5 6	external external external external	Owner Manufacturer Power management Curtailment Environmental	 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 3 - Restrictions due to feed-in management 4 - Restrictions due to optimized marketing 1 - Restrictions for licensing reasons
2 3 4 5 6 7	external external external external external	Owner Manufacturer Power management Curtailment Environmental Remote pause problem	 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 3 - Restrictions due to feed-in management 4 - Restrictions due to optimized marketing 1 - Restrictions for licensing reasons 2 - Restrictions or unavailable for other reasons
2 3 4 5 6 7 8	external external external external external external	Owner Manufacturer Power management Curtailment Environmental Remote pause problem No Connection Plant Control	 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 3 - Restrictions due to feed-in management 4 - Restrictions due to optimized marketing 1 - Restrictions for licensing reasons 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons
2 3 4 5 6 7 8 9	external external external external external external external	Owner Manufacturer Power management Curtailment Environmental Remote pause problem No Connection Plant Control Frequency Response Utility	 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 3 - Restrictions due to feed-in management 4 - Restrictions due to optimized marketing 1 - Restrictions for licensing reasons 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 1 - Restrictions for licensing reasons
2 3 4 5 6 7 8 9	external external external external external external external external	Owner Manufacturer Power management Curtailment Environmental Remote pause problem No Connection Plant Control Frequency Response Utility Icing	 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 3 - Restrictions due to feed-in management 4 - Restrictions due to optimized marketing 1 - Restrictions for licensing reasons 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 1 - Restrictions for licensing reasons 1 - Restrictions for licensing reasons
2 3 4 5 6 7 8 9 10 11	external external external external external external external external external	Owner Manufacturer Power management Curtailment Environmental Remote pause problem No Connection Plant Control Frequency Response Utility Icing Turbine Internal	 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 3 - Restrictions due to feed-in management 4 - Restrictions due to optimized marketing 1 - Restrictions for licensing reasons 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 1 - Restrictions for licensing reasons 1 - Restrictions for licensing reasons Will be reflected in Internal derate state
2 3 4 5 6 7 8 9 10 11 12	external external external external external external external external external	Owner Manufacturer Power management Curtailment Environmental Remote pause problem No Connection Plant Control Frequency Response Utility Icing Turbine Internal Remote Pause by Utility	 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 3 - Restrictions due to feed-in management 4 - Restrictions due to optimized marketing 1 - Restrictions for licensing reasons 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 1 - Restrictions for licensing reasons 1 - Restrictions for licensing reasons Will be reflected in Internal derate state 3 - Restrictions due to feed-in management
2 3 4 5 6 7 8 9 10 11 12 13	external external external external external external external external external external external	Owner Manufacturer Power management Curtailment Environmental Remote pause problem No Connection Plant Control Frequency Response Utility Icing Turbine Internal Remote Pause by Utility Remote Pause by Owner	 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 3 - Restrictions due to feed-in management 4 - Restrictions due to optimized marketing 1 - Restrictions for licensing reasons 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 1 - Restrictions for licensing reasons 1 - Restrictions for licensing reasons Will be reflected in Internal derate state 3 - Restrictions due to feed-in management 2 - Restrictions or unavailable for other reasons
2 3 4 5 6 7 8 9 10 11 12 13	external	Owner Manufacturer Power management Curtailment Environmental Remote pause problem No Connection Plant Control Frequency Response Utility Icing Turbine Internal Remote Pause by Utility Remote Pause by Owner Remote Pause by Manufacturer	 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 3 - Restrictions due to feed-in management 4 - Restrictions due to optimized marketing 1 - Restrictions for licensing reasons 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons 1 - Restrictions for licensing reasons 1 - Restrictions for licensing reasons Will be reflected in Internal derate state 3 - Restrictions due to feed-in management 2 - Restrictions or unavailable for other reasons 2 - Restrictions or unavailable for other reasons

