



TC EC - Decision to  
Technical Guideline  
TG 8 Rev. 9

**FGW e.V.**

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### **Technical Committee Electrical Characteristics (TC EC) – Decision 2 from 15 October 2024**

The Technical Committee Electrical Characteristics (TC EC) decides the amendment of Revision 9 of the Technical Guideline Part 8 (TG 8).

The supplement sheet 3 complements FGW TG 8 Rev. 9 with the verification of the correct prioritisation of the active power increase in the case of an underfrequency event with simultaneous specification by third parties (e.g. active power setpoint by a direct seller) or by the grid safety management (NSM) of the grid operator (active power limitation) in accordance with the specification of the VDE FNN of 04.09.2024 [[Technical Connection Rules for Medium-Voltage \(VDE-AR-N 4110\)](#)].

on behalf of the TC Electrical Characteristics

Simon Borsutzki

## Supplement sheet 3 to FGW TG 8 Rev. 9

### Background:

The certification procedure should describe the verification of the correct prioritization of active power in the case of an underfrequency event with simultaneous specification by third parties (e.g. a direct seller) or by the grid safety management (NSM) of the grid operator.

The power increase in the case of an underfrequency event in accordance with VDE-AR-N 4110 / 4120 Chapter 10.2.4.3 has priority in accordance with the list in VDE-AR-N 4110 / 4120 Chapter 8.1, most recently specified by the FAQ entry of the VDE FNN from 4 September 2024 [[Technical Connection Rules for Medium-Voltage \(VDE-AR-N 4110\)](#)], over the power specification of the direct seller or generally power specifications of third parties (thus not from the grid operator). Transition periods according to the [FAQ entry](#) apply for verification of the correct implementation of prioritization.

### Evaluation:

The certification procedure supplemented here can be carried out either on the PGS controller or on the PGU, depending on whether the prioritization is implemented by the PGS controller or by the PGU. The following additional test points are to be evaluated at unit or component level, where applicable. The test point must in any case be evaluated at system level (PGS).

The requirements and transition periods described in the background must be taken into account in the evaluation.

### Validity:

The supplementary sheet 3 applies from 01 November 2024.

**Chapter A.1 VDE-AR-N 4110 (TCR MV)**

**A.1.2.5.1.1 PGU**

Amendment of requirement 8.1 in the table directly below the chapter heading.

The following generally applies:

Addition of the following point:

8	Prioritisation of grid safety management over $P(f)$ regulation and prioritisation of $P(f)$ regulation over setpoint specification by third parties is implemented.	True
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**A.1.2.5.1.2 Component/ PGS controller**

Amendment of requirement 8.1 in the table directly below the chapter heading.

The following generally applies:

Addition of the following point:

5	Prioritisation of grid safety management over $P(f)$ regulation and prioritisation of $P(f)$ regulation over setpoint specification by third parties is implemented.	True
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**A.1.2.5.1.3 PGS**

Amendment of requirement 8.1 in the table directly below the chapter heading.

The following generally applies:

Addition of the following point:

2.6	Prioritisation of grid safety management over $P(f)$ regulation and prioritisation of $P(f)$ regulation over setpoint specification by third parties is implemented.	True
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## Chapter A.2 VDE-AR-N 4120 (TCR HV)

### A.2.2.5.1.1 PGU

Amendment of requirement 8.1 in the table directly below the chapter heading.

The following generally applies:

Addition of the following point:

8	Prioritisation of grid safety management over $P(f)$ regulation and prioritisation of $P(f)$ regulation over setpoint specification by third parties is implemented.	True
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### A.2.2.5.1.2 Component / PGS controller

Amendment of requirement 8.1 in the table directly below the chapter heading.

The following generally applies:

Addition of the following point:

5	Prioritisation of grid safety management over $P(f)$ regulation and prioritisation of $P(f)$ regulation over setpoint specification by third parties is implemented.	True
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### A.2.2.5.1.3 PGS

Amendment of requirement 8.1 in the table directly below the chapter heading.

The following generally applies:

Addition of the following point:

2.6	Prioritisation of grid safety management over $P(f)$ regulation and prioritisation of $P(f)$ regulation over setpoint specification by third parties is implemented..	True
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