



TC EC – Resolution on the  
Technical Guideline  
TG 8 Rev. 10

**FGW e.V.**

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#### **Technical Committee on Electrical Characteristics (TC EC) – Resolution of 18 March 2026**

The Technical Committee on Electrical Characteristics (TC EC) resolves to amend Revision 10 of Technical Guideline Part 8 (TG 8).

Supplement 2 to FGW TG 8 Rev. 10 contains corrections to Annex A.

The corrections relate to operating methods in the event of a communication interruption between the PGS controller and the power generating units, the control behaviour in the event of a failure of the auxiliary power supply to the protective devices, and the voltage rise in the power generating system in the event of a voltage surge.

On behalf of the Electrical Characteristics Department

Simon Borsutzki

# **Supplement 2 to FGW TG 8 Rev. 10**

## **Certification of Electrical Characteristics of Power Generating Units and Systems, Storage Units as well as Related Components within the Electricity Grid**

18 March 2026

### **Publisher**

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For the sake of readability, gender-neutral language has been used. Such terms apply to both genders in the spirit of equality.



## Supplement 2 to FGW TG 8 Rev. 10

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## 1 Annex A.1.2.4.2.1 PGUs / A.2.2.4.2.1 PGUs

Rev. 10:

| No. | Evaluation criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Acceptance criterion          |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 2   | <p>In case of a communications failure to the PGS controller, PGUs may be operated based on a specified value and/or method.</p> <p>It must be identified which of the following methods can be implemented. The success criterion shall be that at least method no. 1 can be implemented.</p> <ol style="list-style-type: none"> <li>1. Continued operation of all PGUs with the last value received</li> <li>2. Continued operation of all PGUs with <math>P = \dots</math> (total value for the PGS)</li> <li>3. Continued operation of all PGUs with <math>Q = \dots</math> (total value for the PGS)</li> <li>4. Continued operation of all PGUs with <math>\cos \varphi = \dots</math></li> </ol> | Information has been provided |

### Correction:

| No. | Evaluation criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Acceptance criterion |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 2   | <p>In case of a communication failure between the PGS controller and the power generating unit (PGU), it must be ensured that the PGU can continue to operate in accordance with a predefined procedure.</p> <p>The following operating modes must be implementable:</p> <ol style="list-style-type: none"> <li>1. Operation with last setpoint:<br/>The PGU continues to implement the last setpoint received (<math>P</math>, <math>Q</math>, <math>\cos \varphi</math>).</li> <li>2. Operation with fixed active and reactive power values or <math>\cos \varphi</math>:<br/>The PGU implements defined setpoints (<math>P</math>, <math>Q</math> or <math>\cos \varphi</math>).</li> </ol> <p>The power generating unit is capable of implementing the aforementioned operating modes.</p> | True                 |

## 1.2 ANNEX A.3.2.4.2.1 PGUS

### New entry:

The following applies to type 2 PGUs:

| No. | Evaluation criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Acceptance criterion |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1   | <p>In case of a communication failure between the PGS controller and the power generating unit (PGU), it must be ensured that the PGU can continue to operate in accordance with a predefined procedure.</p> <p>The following operating modes must be implementable:</p> <ol style="list-style-type: none"> <li>1. Operation with last setpoint:<br/>The PGU continues to implement the last setpoint received (P, Q, <math>\cos \varphi</math>).</li> <li>2. Operation with fixed active and reactive power values or <math>\cos \varphi</math>:<br/>The PGU implements defined setpoints (P, Q or <math>\cos \varphi</math>).</li> </ol> <p>The power generating unit is capable of implementing the aforementioned operating modes.</p> | True                 |

## 2 Annex A.1.2.8.9.1 PGUs / A.2.2.8.9.1 PGUs and A.3.2.8.9.1 PGUs

Under 'General provisions:', the following section applies in each case:

| No. | Further evidence                                                                                                                                                                                                                                               | Acceptance criterion |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| A   | In case a failure of the auxiliary power of the protection devices and/or of the system control, the PGU is immediately (as in without delay) shut down and then disconnected from the grid. An immediate triggering of the PGU's main switch is inadmissible. | True                 |

"Inadmissible " is amended to "permitted" in chapter A.1.2.8.9.1 PGUs, A.2.2.8.9.1 PGUs and A.3.2.8.9.1 PGUs.

### Correction:

| No. | Further evidence                                                                                                                                                                                                                                                                  | Acceptance criterion |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| A   | A failure of the auxiliary power supply to the protective devices or the plant control system results in the PGU being shut down as quickly as possible (i.e. without delay) and subsequently disconnected from the grid. Immediate tripping of the PGU main switch is permitted. | True                 |

### 3 Annex A.2.2.7.3.3 PGSs

Under 'General provisions:', the voltage step is adjusted from 105% to 110%:

| No. | Evaluation criteria                                                                                                                                                                                                                                           | Acceptance criterion |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 7   | The response of the PGS was evidenced for a symmetrical voltage increase based on a voltage jump from 100% $U_n$ to 105% $U_n$ and from 105% $U_n$ to 120 % $U_n$ (for commissioning starting on 1 January 2021 to 125 % $U_n$ ) with a duration of 5 s each. | True                 |

**Correction:**

| No. | Evaluation criteria                                                                                                                                                                                                                                           | Acceptance criterion |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 7   | The response of the PGS was evidenced for a symmetrical voltage increase based on a voltage jump from 100% $U_n$ to 105% $U_n$ and from 110% $U_n$ to 120 % $U_n$ (for commissioning starting on 1 January 2021 to 125 % $U_n$ ) with a duration of 5 s each. | True                 |



#### **4 Annex A.2.2.8.11.1 PGSs**

Annex A.2.2.8.11.1 PGSs is incorrectly numbered in the directive. The correct designation of the chapter is annex A.2.2.8.11.3 PGSs