

## **Annex D     Sample unit, component and system certificate for new systems**

Annex D is split into:

1. Summary of the unit, component and system certificate for new systems
2. Structure of the evaluation report on the system certificate.

### **D.1   PART 1 - SUMMARY OF THE UNIT CERTIFICATE FOR NEW SYSTEMS**

See template in TCC High-Voltage, Annex E.10.

### **D.2   PART 1 - SUMMARY OF THE COMPONENT CERTIFICATE FOR NEW SYSTEMS**

See template in TCC High-Voltage, Annex E.11.

### **D.3   PART 1 - SUMMARY OF THE SYSTEM CERTIFICATE FOR NEW SYSTEMS**

See template in TCC High-Voltage, Annex E.12.

Name and address of the certification body _____ _____ _____ _____ _____		<b>LOGO</b>
<b>System certificate</b>		
		<b>No.: 2012-n</b> Signed copy no. 1
<b>1. PGS name</b>	Name _____ Registration no. of grid operator _____	
<b>2. Grid connection point to grid operator</b>	Name _____ _____	
<b>3. Certificate holder</b>	Name _____ Street, house number _____ Postal code, town _____ Telephone _____ E-mail _____	
<b>4. Information on the PGS</b>	Agreed connected active power $P_{AV}$ Total _____ kW	

No.	Manufacturer	Type name	Rated power in kW	Commissioning date	Serial number	EEG-Keys	Fulfills the requirements in accordance with
				Or planned date	If available, otherwise RDS-PP or project number	If already available	Keys *) (please provide additional details for 'Other')
	XYZ	ABCxxxxx	2000	20/09/2006	7xxxxxI*	EEXxxx00xxx00x	1)
	<p>*) Certified in accordance with:                      1) New systems in accordance with SDLWindV; 2) Transitional systems in accordance with SDLWindV; 3) Old systems in accordance with SDLWindV; 4) Existing PGUs; 5) PGUs in accordance with BDEW MV guideline 6) PGUs in accordance with TC 2007; 7) Other</p> <p><b>Remarks:</b></p>						

Requirement	Met/ present	Not met/ not present	Remarks
Verification of the main components for plausibility of short-circuit resistance, continuous current-carrying capacity and switching capacity	<input type="checkbox"/>	<input type="checkbox"/>	
Feed-in active power (presentation of total active power incl. PGUs which are already connected)	<input type="checkbox"/>	<input type="checkbox"/>	
System perturbation - quick voltage variations	<input type="checkbox"/>	<input type="checkbox"/>	
System perturbation - long-term flickers	<input type="checkbox"/>	<input type="checkbox"/>	
System perturbation- harmonics and interharmonics (naming of remedial measures /suggestion of measurements in the event of a breach)	<input type="checkbox"/>	<input type="checkbox"/>	
Dynamic grid support (Verification of adherence to GO's specifications at GCP)	<input type="checkbox"/>	<input type="checkbox"/>	
Active power concept (control concept is present - overview scheme with all significant components, grid operator's specifications taken into account)	<input type="checkbox"/>	<input type="checkbox"/>	
Stat. reactive power provision (presented as a diagram; control concept is present - overview scheme with all significant components, grid operator's specifications taken into account)	<input type="checkbox"/>	<input type="checkbox"/>	
Switching-in conditions (presentation of the concept; analysis of voltage at GCP)	<input type="checkbox"/>	<input type="checkbox"/>	
Grid protection (meet specifications of GO; if protection setting values conflict with dynamic grid support / static voltage stability, agreement with GO takes place)	<input type="checkbox"/>	<input type="checkbox"/>	
<p>The verification is available in the form of a system certificate, completed on the basis of TG 8, Rev. 6 and newer editions.</p> <p>The following documents are, among others, included with the system certificate:</p> <ul style="list-style-type: none"> <li>- Part B Data questionnaire for grid operators in accordance with TG 8, Annex <b>Fehler! Verweisquelle konnte nicht gefunden werden.</b></li> <li>- General circuit diagram of the PGS entire electrical system</li> <li>- Communications plan of the PGS controller concept</li> </ul> <p>_____</p> <p>_____</p>			



<b>7. Notes for the commissioner and notes on the PGS declaration of conformity by the certification body to the expert</b>	
PGU	<p>Supplementary settings to the grid operator questionnaire should be given here such as PGU staggering times, deviating k factors for the PGU</p> <hr/> <hr/> <hr/> <hr/> <hr/>
GCP	<hr/> <hr/> <hr/> <hr/> <hr/>
Control system	<p>Deviations during system certification for the controller concept, which have not been agreed upon, must be given.</p> <hr/> <hr/> <hr/> <hr/>

<p><b>Place, date (DD/MM/YYYY) Certification body</b></p> <hr/>
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