

1 **Expert group: Harmonization of Equipment Certificate Acceptance at**
2 **European Level and Product Family Grouping**

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4 **Approved by the GC ESC on 07 December 2021**
5 **Subject to possible updates on the list of members**
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7 **Chair:** Freddy Alcazar

8 **Vice-Chair:** Assiet Aren

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10 **Problem Statement**

11 On the 22nd of September 2021, the Grid Connection European Stakeholder Committee (GC ESC) has
12 decided to establish an expert group on Harmonization and acceptance of equipment certificates and product
13 family grouping.

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15 Since the publication of NC RfG, all member states have adopted the ENTSO-E guidelines and have defined
16 accordingly a compliance process including testing and equipment certification. The practical
17 implementation proves that the certification process is a good method to ensure grid code compliance before
18 connection. However, each nation has an individual approach, thus the manufactures of type tested, mass
19 produced products are obliged to involve themselves in repeating tests and certification processes in different
20 nations that can prove both time consuming and expensive, having a negative impact on project plausibility
21 and causing considerable delays to connection permission.
22

23 **Target (objectives)**

24 One part of the EG's task is to:

- 25 1. Clarify various types of certification definitions, e.g. equipment certificate, component certificate etc.
26
27 2. Understand the existing EU schemes on proof of compliance which includes:
- 28 ○ Certification requirements and specifications applicable in the member states (including
29 certification, test procedures and test validation criteria, model requirements and model
30 validation criteria). e.g. Germany FGW TG8, CEO 0-16 Annex Nter,
31 EN_NormaTecnicaSupervision631_v2.1
 - 32 ○ International Standards regarding certification including
 - 33 ■ ISO 17025 General requirements for the competence of testing and calibration
34 laboratories,
 - 35 ■ ISO 17065 Conformity assessment - Requirements for bodies certifying products,
36 processes and services,
 - 37 ■ ISO 17067 Conformity assessment - Fundamentals of product certification and
38 guidelines for product certification schemes
 - 39 ○ Existing schemes for conformity with EU-Directives in other fields, such as the new
40 legislative framework for the CE-Directives.
 - 41 ○ Draft EN 50549-10 Requirements for generating plants to be connected in parallel with
42 distribution networks — Part 10: Tests for conformity assessment of generating units,
43 especially clause 4.4 Configuration range and parameter sets
 - 44 ○ Existing and currently developed schemes in IEC RE WG10,

- 45 ○ Taking into account the provisions of ENTSO-E IGD: General guidance on compliance
46 verification – compliance testing and use of equipment certificates (July 2021)
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48 Based on a common understanding of the items listed above, the objective of the EG is to:

- 49 1. Provide a path for the creation of EU harmonized testing strategies and proof of compliance
50 methods as well as a proposal on key criteria to meet requirements in RfG, taking into account
51 existing strategies in other sectors of EU regulation.
52
- 53 2. Define an approach to accept certificates at EU level for all types (A, B, C and D). This can include
54 a set of minimum requirements on respective statements of conformity, including the option of only
55 selective conformity and the application of component certificates.
56
- 57 3. Define a common product family definition and grouping criteria for an equipment certificate.
58
- 59 4. Provide a path for a harmonized European approach to accept validated simulation models and define
60 their recommended scope of use to substitute equipment testing.
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62 **Legislative background**

63 REGULATION (EC) No 765/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9
64 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of
65 products and repealing Regulation (EEC) No 339/93NC RfG Article 1; DECISION No 768/2008/EC OF
66 THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 July 2008 on a common framework for
67 the marketing of products, and repealing Council Decision 93/465/EEC; Item 47: equipment certificate
68 definition, and Title IV article 40 to article 59.

69 Corresponding country grid codes with relevant information.

70 Current CNC provisions.

71 **Deliverables**

- 72 • Report about existing certification schemes and other schemes on proof of compliance in member
73 states
74 • Recommendation on testing scope and family grouping definition (including definition and usage of
75 validated models)
76 • Recommendation on certification specification and procedure (including criteria for the acceptance
77 of existing certifications that cover NC RfG requirements on EU countries)
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79 **Timing**

- 80 • estimated 12 months from Nov 2021.

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82 **Team (update 15.12.2021)**

83 The following nominations to participate in this EG have been received (name and association):

<i>Name</i>	<i>Organisation</i>	<i>Representation at GC ESC</i>
<i>Adrián González González</i>	ENTSO-E	ENTSO-E
<i>Alessandro Zuccato</i>	CENELEC	Kiwa Creiven srl
<i>Alexandra Tudoroiu</i>	COGEN Europe	COGEN Europe
<i>Andres Pinto-Bello</i>	smarten	smarten
<i>Annette Jantzen</i>	EUGINE	EUGINE
<i>Assiet Aren</i>	EUGINE	MWM/Caterpillar Energy Solutions
<i>Bernhard Schowe-von der Brelie</i>	FGH	FGH
<i>Caoimhín Ó BRIAIN</i>	EURELECTRIC	EURELECTRIC
<i>Carsten Junge</i>	WindEurope	GE Renewable Energy
<i>Dirk Rahn</i>	EFAC	M.O.E. GmbH
<i>Doina Ilisiu</i>	ENTSO-E	Transelectrica
<i>Eckhard Schwendemann</i>	CENELEC	ES-TMC
<i>Florentien Benedict</i>	CEDEC	Stedin
<i>Freddy Alcazar Barrientos</i>	EUGINE	INNIO
<i>Giuseppe Dell'Olio</i>	CENELEC	GSE SpA
<i>Ioannis Theologitis</i>	ENTSO-E	ENTSO-E
<i>Juan Pena de Juana</i>	SolarPower Europe	SMA
<i>Keith Chambers</i>	Europgen	Caterpillar
<i>Laurent Schmitt</i>	smarten	Dcbel
<i>Luca Guenzi</i>	EUTurbines	Solar Turbines
<i>Luigi D'Orazio</i>	EURELECTRIC	e-distribuzione
<i>Magdalena Kurz</i>	EUTurbines	EUTurbines
<i>Marc Malbrancke</i>	CEDEC	CEDEC
<i>Markus Holzapfel</i>	WindEurope	Vestas
<i>Maxime Buquet</i>	EUTurbines	GE

<i>Mike Kay</i>	GEODE	P2Analysis
<i>Roland Bründlinger</i>	EASE	AIT
<i>Rong Cai</i>	WindEurope	Hitachi Energy
<i>Sergio Martinez Villanueva</i>	ENTSO-E	REE
<i>Søren Stig Abildgaard</i>	COGEN Europe	EC Power
<i>Srinivasa Raju Addala</i>	EUGINE	Wärtsilä
<i>Steffen Eckstein</i>	EUTurbines	Siemens Energy
<i>Sudharsana Govindaswami</i>	CENELEC	Cummins Power Systems
<i>Volker Schulz</i>	ENTSO-E	Amprion
<i>Xabier Calvo</i>	COGEN Europe	Ingeteam Indar Machines
<i>Yatin Bisne Prakash</i>	WindEurope	Siemens Gamesa

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85 **Estimated workload**

- 86 - Monthly webinars,
 87 - Additional webinars on requests,

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89 **Target audience**

- 90 • GC ESC
 91 • Relevant and/or interested stakeholders on the Connection Network Codes