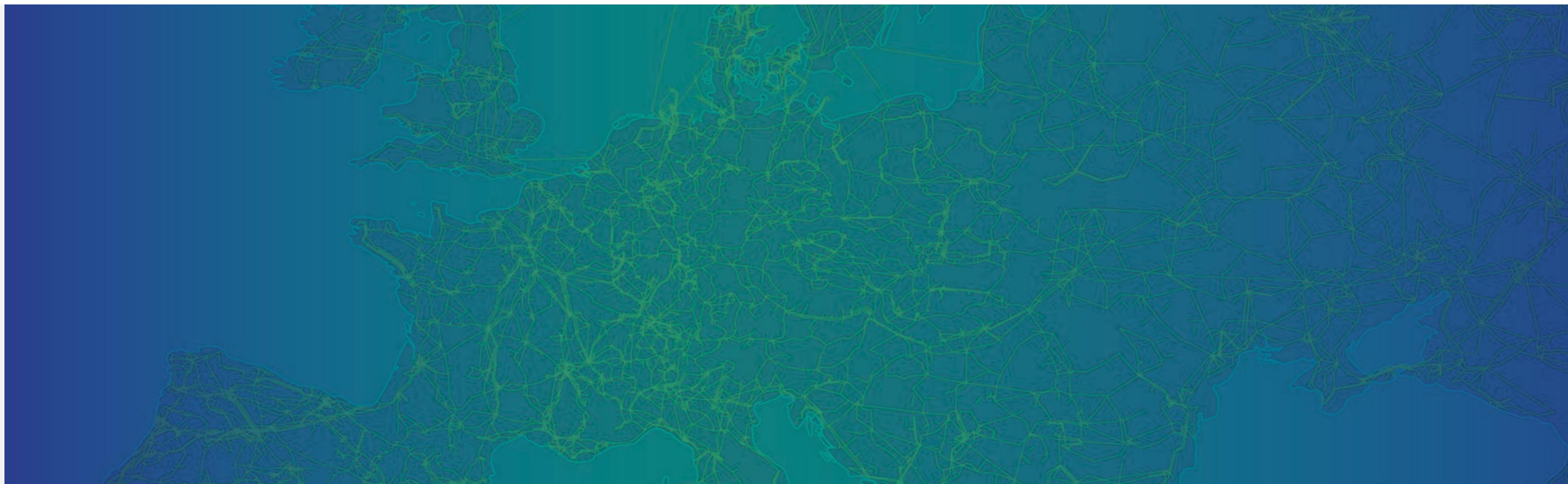


New Implementation Guidelines on Compliance Verification

15th June 2023 – GC ESC meeting



Presented by: Sergio Martínez Villanueva

2. Publication of new IGDs related to Compliance Verification

ENTSO-E publishes the Implementation Guidance Documents (IGDs) on “Compliance Verification – Using Electrical Simulation Models” and “Compliance Verification - Compliance Monitoring after final operational notification”

- According to Article 58 of NC RfG, Article 56 of NC DC and Article 75 of NC HVDC, ENTSO-E has the obligation to develop non-binding guidance on implementation which shall be revised every two years.
- These IGDs supported the national implementation of the CNCs as well as the clarification of various network code issues to the stakeholders. All published IGDs can be found [here](#).
- During Q1 2023, the StG CNC and its Technical Guidance and Monitoring Team (TGMT), launched a public consultation on the draft IGDs on “Compliance Verification – Using Electrical Simulation Models” and “Compliance Verification - Compliance Monitoring after final operational notification”.
- After a period of one-month public consultation (16 January 2023 – 16 February 2023), ENTSO-E is now launching the [final version of two IGDs](#) as well as the [Response](#) to the comments received during this consultation period.

3. IGD on Compliance Verification – Using Electrical Simulation Models

- This IGD complements the IGD on CV – Testing and Use of Equipment certificates (2021).
- Scope: to guide RSOs on the application of simulation models in the process of demonstrating compliance partly or completely and to make guidance on the mandatory and supplementary onsite tests required to demonstrate full compliance with the grid connection requirements.
- Out of the Scope: specifications for issuing certificates on simulation models as this is up to the relevant standardization bodies and the authorized certifiers and authorized laboratories to agree on a harmonized set of conditions and specifications for issuing certificates on simulation models applicable for demonstrating compliance according to the relevant CNC.
- Description of RMS and EMT models for SPGM and PPM with references to existing standards and especially to GC ESC Expert Group ISSM “Interaction Studies and Simulation Models”, 2021.
- Indications on which requirements may be specifically demonstrated by simulations.
- Role of third parties is suggested.

4. IGD on Compliance Verification – Compliance Monitoring after final operational notification

- This guidance document is addressing the phase after a facility have been accepted for operation. Make sure that the capabilities are still there.
- Scope: to guide the RSOs on the application of compliance monitoring in the process of securing compliance of the grid connection requirements for carrying the operational notification according to the signed connection agreement.
- Emphasizes the strong obligation of the PGM owner to support the RSO unsolicited throughout the compliance monitoring procedure by provision of all necessary information about the relevant facility and any changes of capabilities by modifications throughout the lifetime of the facility.
- Procedure for RfG, DCC and HVDC.
- Involvement of third parties such as authorized certifiers and laboratories.

5. Response to comments

- Very valuable comments from stakeholders.
- IGD on CV- Compliance monitoring after FON received 14 comments.
- IGD on CV- Simulation Models received 57 comments.
- An important amount of comments in IGD CV-Simulation models were rejected, not for a technical reason, but because the comment was amending key messages taken from the [report of EG ISSM](#) (Expert Group Interaction Studies and Simulation Models).