CIGRE Cyprus
https://cigre-cyprus.org

Sustainable Power Network

WEBINARS

European Network Code with focus on inverter-based resources requirements for grid-following converter with compliance process

Summary

The significance of European network codes for the connection of generators (RfG) to the network in the evolving energy landscape, is driven by three key factors: the rapid integration of inverter-based resources (IBRs) in renewable energy, the ongoing definition of IBR characteristics, and the influence of new network codes on IBR attributes and grid behavior. To align it with recent technological advancements and changes in the electric power and transport sectors within the framework of the effort toward decarbonisation dictated a review of the relevant provisions in the RfG. While the current structure of the RfG Regulation remains, profound amendments as well as new articles were introduced in the attempt to address the impacts of new developments.

Post-enactment of the technical requirements for generators, specifically IBRs, certification entities, transmission system operators, and IBR owners must validate IBR functionalities through compliance tests and simulations. Compliance monitoring, crucial throughout an IBR's lifetime, involves the commissioning and post-commissioning phases. Motivations for compliance tests and simulations encompass establishing National Technical Specifications, offering choices to IBR owners for selecting accredited entities, validating compliance with compatible standards, categorizing assessments, and engaging stakeholders with active participation from the national accreditation entity, the Ministry, and the national commission on markets and competition.

Speaker Bio

Sergio works since 2005 for Red Eléctrica, the transmission system operator (TSO) of the Spanish electricity system, in the Power System Reliability Department. His key tasks in Red Eléctrica have always been related to power system modelling and analysis and the investigation of technical requirements for the connection of generators.

As Red Eléctrica he is also a member of the European association for the cooperation of transmission system operators for electricity (ENTSOE) and was part of the drafting team for the network code on requirements for the connection of generators (EU Regulation 631/2016).

Information

Date

May 14, 2024

16:00 Cyprus | 15:00 CET

Location

Register Online:

https://cigre-cyprus.org/webinar

Speaker

Sergio Martínez Villanueva

Red Eléctrica, Spanish TSO