
Reference: **WBN044**



Type:

Webinars

Title:

EMT simulation models for large-scale system impact studies in power systems with high IBR penetration

This webinar summarises the work done in CIGRE WG C4.56 which subsequently published in the Technical Brochure 881. It discusses detailed and systematic whole-system power system modelling based on electromagnetic transient (EMT) simulation for large power systems with a high penetration of inverter-based resources (IBR) where the conventional phasor-domain simulation tools may fall short. The level of details to be included in an IBR EMT model to make it suitable for wide-area system impact studies is then discussed. Approaches for systematic development and testing of the whole-system EMT models is also discussed. Lastly, it presents several practical case studies on how these wide-area EMT models have been used across the world and the insight provided by them which could not have been otherwise provided by conventional phasor-domain models.

More Informations :

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