



MODULE 5

MODELING AND SIMULATION OF GRID-SCALE SOLAR PV AND BESS PLANTS IN PSCAD/EMTDC

Training Objectives:

Understanding the real-time transient/dynamic behavior of the Solar and BESS plants is important to address the technical challenges such as grid interconnections, protections, stability, and power quality issues. The course is designed to expose the participants to the modeling of inverters, develop a plant level model and perform grid interconnection studies. The focus shall be on building a plant-level simulation model using different components such as inverter, plant controller, infinite grid, load, transmission lines, transformers, and shunt devices.

Who Will Benefit?

- Employees of Central and State utilities
- Professionals working in the modeling, analysis, and system studies domain of the power & energy industry
- Graduate/Post-graduate students in Electrical/Electrical and Electronics Engineering willing to join the power system industry

Course Content:

- A brief overview of current/voltage source inverters
- Building a plant level simulation model
 - Modeling of inverter/plant controller
 - Modeling of transmission line
 - Modeling of transformers
 - Modeling of load
 - Modeling of fixed and switched shunts
 - Modeling of an infinite grid
- Perform grid interconnection studies such as LVRT/HVRT
- Hands-on exercises on each sub-module

Pre-Requisite: Basics of Power Systems Module 0, 2

Software: PSCAD/EMTDC software

Delivery Mode: In-person-Physical classroom setting

Certification: Yes

Course Duration: 24 Hrs

Course Fee: INR 30,000 (For professionals)
INR 15,000 (for students)



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