



## MODULE 1

### RENEWABLE ENERGY SYSTEM DESIGN (LAYOUT AND SINGLE LINE DIAGRAM - PV/BESS)

#### Training Objectives:

The fundamental course is to expose participants to the development of layouts and single line diagrams of major power systems including renewable inverters, transformers, collector system, Gen-tie for PV, and BESS Renewable Energy systems. In addition to this, Individual equipment data and SLD modification based on the specific project requirement training will be conducted.

#### 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:

- Basics of Layout design using Plant predict software
- Basics of Single Line diagram
- Inverter selection
- Equivalent collector system calculation.
- Switchgear and switchyard equipment (Preliminary consideration)
- Gen-tie calculation.

**Pre-Requisite:** Basics of Power Systems and renewable energy systems

**Software:** Plant predicts and Microsoft Vision

**Delivery Mode:** In-person-Physical classroom setting

**Certification:** Yes

**Course Duration:** 12 Hrs

**Course Fee:** INR 20,000 (For professionals)  
INR 10,000 (for students)



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