Electrical Load Forecast, Data Analysis, Challenges & Improvement

TE315

Course Overview:

This course introduces electric load forecasting and data analysis from both statistical and practical aspects using the language and examples in the power industry. Through hands-on exercises, participants gain experience of load forecasting for a variety of horizons (short, very short, medium and long term forecasts).

Course Objective:

-Review of electric power distribution load characteristic (how it is done)
-Understand practical characteristic and planning methods
-Understand basic theory and mathematics of modern distribution load characteristic.
-Employ and conduct weather normalization
-Evaluate the distribution of forecast errors
-Specify the accuracy and information content requirements.

Course Outline:

-Types of Electrical Loads
-Important Factors for Load Forcasting.
-load forcast categories and methods
-Load forcast Curve and data analysis
-Electric Load Monitoring.
-Load Forcast challenges
-Load Forcast Improvement

Who Should Attend:

All engineers and technicians involved in the power sectors and power station,power system planners, power system operators, load research analysts, and rate design analystsoperation.

Training Language:

Eng

Training Methodology:

-Presentation & Slides
-Audio Visual Aids
-Interactive Discussion
-Participatory Exercise
-Action Learning
-Class Activities
-Case Studies
-Workshops
-Simulation