TATA POWER-DDL LEARNING Centre

TATA POWER-DDL

ONLINE TRAINING PROGRAM

BATTERY ENERGY STORAGE SYSTEM

OVERVIEW

India is venturing very fast into renewable energy (RE) resources like wind and solar**.** Solar has great potential in India with 300 annual solar days. Our government is offering incentives and subsidies for solar power generation and set a goal of achieving 7% solar contribution in its total power generation capacity from existing 0.23% by 2022. Limitation of renewable resources is that their supply can only be harnessed during a particular part of the day and generates harmonics. To compensate these unpredictable energy sources with power quality issues like Harmonics, Adaptive Grid is need of an hour with integrated battery storage.

OBJECTIVE

This course will helps participants learn about the basic concept of energy storage, types of energy storing devices, history of energy storage systems, operation principle, challenges and application of energy storage in different scenarios including how they can affect the power and transportation sectors, development of energy storage by 2050, and long term/short term storage.

SESSION PLAN

Overview of Battery Storage System

- What is Battery Energy Storage System?
- Details of working of BESS
- Costs Involved

Application & Benefits of BESS

- Ancillary Services
- Deviation settlement Mechanism (DSM) Loss Mitigation
- Peak Load Management
- Renewable Integration
- Power Quality Management
- Preferential services to consumers

Algorithms for BESS

Future Plan of BESS in Power Sector

Battery Energy Storage System at TPDDL

WHO SHOULD ATTEND

- Level A & B Utility Personnel (CE/SE/EE/AE)
- Electrical Engineers
- Project Engineers
- Design Engineers
- Field Engineers
- District Engineers

TRAINING METHODOLOGY

- The Online Training would be conducted on Tata Power-DDL's WebEx Event Platform
- Participants can attend the Training through any device like Desktop / Laptop / Tablet / Smart Phone
- Each Session would be of 2 hour duration including Q&A session to take up question and points that need more clarity by the participants.
- The presentation would be shared with all participants after the end of the Program

PROGRAM FEE

DESCRIPTION OF CHARGES	UNIT RATE
Cost of **Online Training** *comprising of 2 sessions* **for upto 30 participants** from one company • Cost per Session – Rs 12,500 • Cost for 2 different sessions – Rs 12,500 x 2 sessions = Rs. 25,000 • Taxes and Levies extra	Rs. 25,000
Cost of **Online Training** *(comprising of 2 sessions)* **for every additional participant over and above 30 participants** from one company excluding applicable taxes and levies • Cost per Session – Rs 1000 • Cost for 2 different sessions – Rs 500 x 2 sessions = Rs. 1,000 • Taxes and Levies extra	Rs. 1,000
Remarks: Includes Online Training Cost, Course material and Presentations, Certificate of Participation	

The fee is payable either through Cheque or Demand Draft favouring "Tata Power Delhi Distribution Limited, New Delhi" crossed 'A/C payable only' or in case of direct ECS you can pay into A/C no. 00030310011605, HDFC Bank Ltd. Branch, G-3-4, Suryakiran Building, 10, KG Marg, New Delhi-110001, IFSC Code: HDFC0000003

Payment Terms: 100% advance after confirmation of nomination.

WHOM TO CONTACT

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TATA POWER-DDL

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