

## **Best Practices for Energy Storage Deployment**

## DAY 1

Overview of Energy Storage

- Synopsis of Energy Storage
- Energy Storage Infrastructure
- On-grid and Off-Grid Energy Storage
- Hybrid Energy Storage
- **Energy Storage Reliability**
- Tracing and Monitoring including IV Curve
- DAY 2
- Classifications and Types of Energy Storage
- Electrical
- Mechanical
- Electrochemical
- Thermal
- Hydrogen
- Grid storage applications
- DAY 3
- Characteristics and Principle of Energy Storage
- **Lithium Batteries**
- Sodium Sulphur (NaS) Batteries
- Lead Acid
- **Super Capacitors**
- Flywheel
- Compressed Air Storage System
- DAY 4
- Energy Storage Infrastructure Maintenance, Schematics, Solutions, and Safety
- Energy Storage Hazards and Mitigation
- Safety Codes and Standards
- Solar Energy Storage Schematics



Wind Power Energy Storage Schematics
Maintenance of Energy Storage
Digitalisation and Artificial Intelligence (AI) Application to Energy Storage
DAY 5
Future Energy Storage and Sustainability
World's Largest Solar Energy Storage
Bulk Hydrogen Storage
Alternatives to Lithium-Ion Battery Storage
Distributed Energy Resources and Microgrids
Digitalisation of Future Energy Storage