

BATTERY ENERGY STORAGE SYSTEMS (BESS) TRAINING

The course explores the full spectrum of battery energy storage systems, from technical fundamentals to commercial and social considerations. Participants gain an understanding of key components such as battery modules, inverters, control systems, and balance-of-plant, along with the complete development cycle from concept and permitting through construction, commissioning, and end-of-life planning. Core modules unpack the trade-offs between battery chemistries, control strategies for grid-following and grid-forming systems, and approaches for ensuring safety, performance, and grid stability.

We can also include sessions on topics such as environment and planning, grid connection or other aspects of development that draw on Entura's expertise across the complete lifecycle of renewable energy projects.

WHY TAKE THIS COURSE

- Aligns technical, commercial and social perspectives in one integrated program
- Built around real projects and lessons learned
- Modular flexibility to suit your role and team needs
- Delivered by practitioners with hands-on BESS and microgrid experience

COURSE CONTENT

This course examines the commercial and operational realities of BESS projects

- revenue streams
- performance guarantees
- lifecycle economics
- practical challenges of supply chain management
- community impacts
- risk mitigation.

Real-world case studies illustrate how storage supports renewable integration, grid services, microgrids, and islanded operation, equipping participants with the insight to deliver reliable, sustainable storage solutions

PARTICIPANT PROFILE

- Project developers, asset owners and operators
- Grid planners, electrical engineers, protection & control engineers
- Regulatory agencies, network operators, and stakeholder engagement professionals

LEARNING OBJECTIVES

- To provide participants with a technical understanding of BESS
- To develop an appreciation of the technical risks associated with BESS

LEARNING METHODS

- Lectures
- Case studies
- Discussions
- Site visit if possible

COURSE PROVIDERS

Entura's lecturers technical specialists and professionals with extensive experience and qualifications in the renewable industry

CUSTOMISATION

This course can be tailored to suit a range of Battery Energy Storage System (BESS) projects, from utility-scale energy storage facilities supporting the electricity network to smaller behind-the-meter, microgrid, and remote power applications.

COURSE DURATION

1 DAY

LOCATION:

Tasmania, Australia
Via MS Teams or in-person
Or client site as negotiated

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