

Informa Connect

Academy

Commercial Opportunities for Battery Storage in the NEM

Navigating the NEM: A Deep Dive into Battery Storage Opportunities



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Course Overview

This course will provide a clear understanding of the commercial opportunities for utility-scale battery storage in Australia's National Electricity Market (NEM).

Our expert instructor will explain the design of the NEM and the critical issues facing the electricity industry as it undergoes the biggest transformation in its history. The course will focus on the role of battery storage in the energy transition and in particular, the revenue streams for battery storage. Participants will also learn about the pros and cons of different battery technologies, project configurations (e.g. standalone versus hybrid), energy policy, and language used within the electricity industry. This course is recommended for those who need to build a strong and practical commercial understanding of battery storage in the NEM.

Key Benefits

- Design of the National Electricity Market, including trends and challenges in the transition to clean energy
- Key battery technologies
- Revenue streams for battery storage including energy arbitrage, FCAS, and advanced services.
- Using contracts to mitigate revenue risks
- System planning and energy policy at both a state and federal level

Who Should Participate

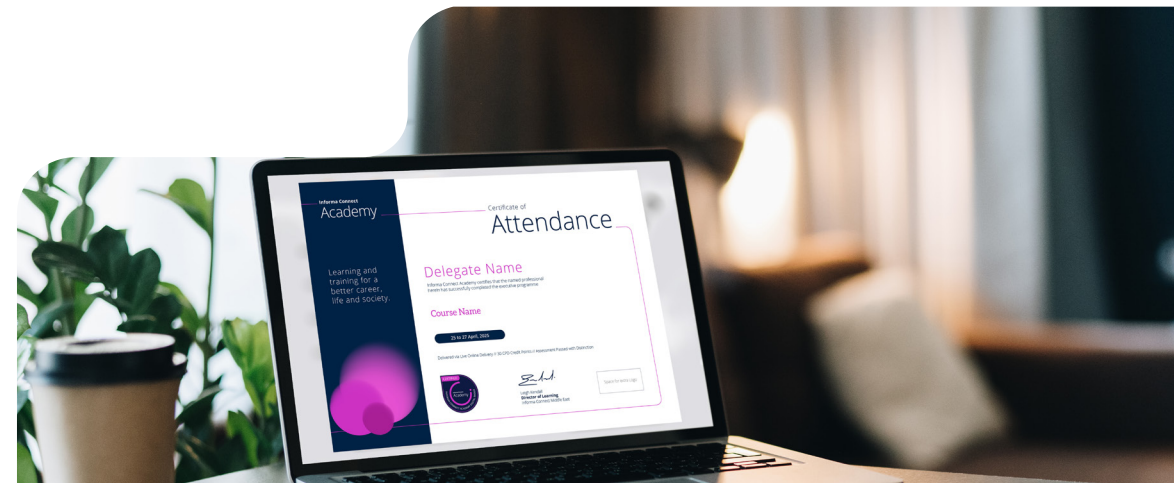
Professionals from project developers, operators, retailers, banks, superfunds, asset managers, government, legal and consulting firms, battery suppliers, and other related industries seeking to deepen their understanding of the NEM and its commercial opportunities for battery storage.

Course Requirements and Certificates

Delegates must meet two criteria to be eligible for an Informa Connect Academy Certificate of Completion:

- **Satisfactory attendance** - Delegates must attend all sessions of the course. Delegates who miss more than 2 hours of the course sessions will not be eligible to sit the course assessment
- **Successful completion of the course assessment** - Assessments will be ongoing and based on in-class participation and activities

Delegates who do not meet these criteria will receive a Certificate of Attendance. If delegates have not attended all sessions, the certificate will clearly state the number of hours attended. *In-person delegates will receive a printed (or hard copy) certificate and digital delegates will receive a soft copy.*



Energy Transition In The NEM

- How the fuel mix is evolving
- Role for energy storage
- AEMO's Integrated System Plan (ISP)

Battery Technology

- Comparison of different types of batteries including lithium-ion, flow batteries, and sodium sulphur batteries
- Understanding technical parameters such as power rating, storage duration, round-trip efficiency, depth of discharge, cycling

Utility-Scale Batteries In The NEM

- Rollout of big batteries to date and possible future directions
- Revenue streams for battery storage
- Key players in the battery ecosystem

Design Of The NEM

- Key features that manage supply/demand balance
- Bidding, price setting, and dispatch
- Marginal loss factors
- Market participation categories for battery storage
- How batteries arbitrage the energy market

Frequency Control Ancillary Services

- Regulation and contingency FCAS
- Performance to date and future trends
- How batteries participate and earn revenue in FCAS markets

Advanced Services Provided By Batteries

- Virtual inertia
- System strength
- SIPS

Standalone Versus Hybrid (Solar And/Or Wind) Battery Projects

- Different configuration options for battery projects and their pros and cons
- Utilisation of connection point under different scenarios
- Monetisation of curtailed energy
- AC vs DC coupling
- Sizing considerations

Contracting Structures For Battery Storage

- Mitigating revenue risks with contracts
- Tolling agreements
- Power purchase agreements
- Caps
- Contracts for network services

Energy Policy

- Federal policy, including the Capacity Investment Scheme
- State-based targets and policies
- Renewable Energy Zones

Working With Energy Market Data

- Common units
- Key metrics for energy market analysis
- Key metrics to assess the performance of battery storage systems

Marija Petkovic

Marija Petkovic is a leading expert in wholesale electricity markets and the transition to clean energy, having worked in this field for more than 12 years across Australia, New Zealand, and the United States.

Marija is currently Managing Director at Energy Synapse, a top analytics and advisory firm. Energy Synapse has been engaged to provide energy market advice to some of the biggest renewable energy developers in Australia as well as regulatory and government bodies. Marija's commentary on energy issues is frequently featured in media as ABC News, Sydney Morning Herald, RenewEconomy and many more.

Throughout her career, Marija has been known for her innovation and ability to distil complex concepts and make them easy to understand by audiences of all levels. Marija currently serves on the Industry Advisory Committee at the University of Sydney and has previously served on the editorial board of Ecogeneration Magazine.


Marija holds a Bachelor of Engineering (Chemical) (Hons I) and a Bachelor of Commerce (Finance) from the University of Sydney.



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Run This Course In-Company

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Informa Connect Academy is a premier provider of global education and training solutions that caters to a diverse range of professionals, industries, and educational partners. We are dedicated to promoting lifelong learning and are committed to offering learners expert guidance, training, and resources to help them stay competitive in a rapidly changing world.

Our comprehensive range of courses and programmes are tailored to meet the needs of all professionals, from aspiring specialists to seasoned experts. We partner with elite academic organisations and industry leaders with unmatched expertise in their respective fields to deliver an exceptional learning experience.

ABOUT TIMINGS, PRICING AND DOCUMENTATION

Course fees include documentation, luncheon and refreshments for in-person learners. Delegates who attend all sessions and successfully complete the assessment, will receive a Informa Certificate and any applicable partner certificates. A hard copy will be provided to in-person learners and a soft-copy will be provided to virtual learners.

AVOID VISA DELAYS - BOOK NOW

Delegates requiring visas should contact the hotel they wish to stay at directly, as soon as possible.

To avoid delays, please ensure you apply for your visa several weeks before your intended travel date. Visa processing times can vary.

REGISTRATION, PAYMENTS AND CANCELLATION

All registrations are subject to our terms and conditions which are available at <https://informaconnect.com/delegate-terms-and-conditions>. Please read them as they include important information. By submitting your registration, you agree to be bound by the terms and conditions in full. All registrations are subject to acceptance by Informa Connect which will be confirmed to you in writing.

A confirmation letter and invoice will be sent upon receipt of your registration. Please note that full payment must be received prior to the course. Only those delegates whose fees have been paid in full will be admitted to the course.

For full cancellation details, please visit <https://informaconnect.com/delegate-terms-and-conditions>. All cancellations must be sent by email to training@informa.com.au marked for the attention of Customer Services Cancellation. Due to unforeseen circumstances, Informa Connect reserves the right to cancel the course, change the programme, alter the venue, speaker or topics. For full details, please visit www.informaconnect.com/academy.





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