5-DAY / 40-HOUR PROGRAM

Power Markets & Electricity Trading Bootcamp



Understand electricity markets. Read price signals. Make informed trading and risk decisions.

DURATION	LEVEL	FORMAT
5 days | 40 hours	Foundation to intermediate	Instructor-led bootcamp

Course overview

A practical introduction to the commercial side of electricity. Participants follow the full power-trading lifecycle - from the physical grid and market design to price discovery, spot trading, contracts, risk controls, and financial settlement. Realistic market scenarios and guided calculations make key concepts easy to understand and apply.

Who should attend

Energy and utility professionals; power procurement and trading teams; commercial and finance managers; renewable energy professionals; analysts; consultants; and professionals entering wholesale power markets.

Prerequisites

Basic business numeracy and familiarity with energy or commercial operations. No prior electricity-trading experience or advanced engineering knowledge required.

The learning journey

Build a strong foundation in how power markets operate, then learn how bids become prices and trades.

DAY 1 How Electricity Markets Work

Learn the grid, participants and forces behind power prices.

- How electricity moves: generation, transmission, distribution and supply
- Why electricity requires continuous balance between supply and demand
- Key market participants: generators, utilities, system operators and traders
- Physical units and concepts: MW, MWh, load curves and peak demand
- Regulated, bilateral and organized wholesale market models
- Merit order, marginal generation costs and market clearing
- Congestion, network losses, reserve needs and grid reliability
- Fuel, weather, demand and renewable output as price drivers

APPLIED EXERCISE **Map an electricity market and read a simple supply-demand clearing chart.**

DAY 2 Market Products and Price Discovery

See how electricity is bought, sold and priced across time horizons.

- The trade lifecycle: bid, match, schedule, deliver and settle
- Day-ahead auctions: buy bids, sell offers and clearing prices
- Intraday and real-time markets: managing last-minute changes
- Bilateral/OTC contracts compared with exchange transactions
- Understanding base-load, peak-load and time-block products
- Zonal and locational pricing: introduction to congestion effects
- How to read market prices, order books and published market data
- Practical steps in placing, matching and confirming a power trade

APPLIED EXERCISE **Run a guided day-ahead auction and calculate the clearing price.**

From market knowledge to trading decisions

Manage power positions, interpret commercial exposure and understand the tools used to control risk.

DAY 3 — Trading Operations and Portfolio Decisions

Turn forecasts and market prices into commercial decisions.

- Understanding buy/sell positions and long versus short exposure
- Forecasting load and renewable generation to estimate needs
- Building simple position and volume schedules
- Physical spot trading and the logic of intraday rebalancing
- Gross margin, trade revenue, cost and profit-and-loss (P&L;)
- Price spreads, flexible demand and battery storage opportunities
- Trade capture, confirmations and position monitoring
- Using spreadsheet models to test basic trading decisions

APPLIED EXERCISE — **Balance a buyer/seller portfolio after a forecast change and compare P&L.;**

DAY 4 — Contracts, Hedging and Risk Controls

Protect commercial value through sound contracts and controls.

- Price, volume, imbalance and location/basis risk explained
- What drives volatility and how to use stress scenarios
- Forwards, futures, swaps and options: practical overview
- Power purchase agreements (PPAs): terms, pricing and delivery
- Fixed-price versus indexed contracts and simple hedging choices
- Counterparty credit, collateral, exposure limits and approvals
- Market conduct, compliance and prevention of manipulation
- Trading controls: duties, authorizations and audit trails

APPLIED EXERCISE — **Compare a spot purchase with a fixed-price hedge and review PPA terms.**

Apply, measure and take decisions

Complete the power-trading cycle and practise decisions in a structured, realistic market simulation.

DAY 5

Settlement, Market Trends and Simulation

Bring trading decisions through to commercial and financial results.

- Metering, nominations, delivery data and settlement inputs
- Spot settlement, imbalance charges and invoice reconciliation
- Market performance: volumes, margins, P&L; and key indicators
- Dealing with settlement exceptions and trading disputes
- Renewable integration, flexibility and power market evolution
- Energy storage, demand response and digital trading analytics
- Using a trading dashboard to review decisions and exposure
- Final review: lessons, controls and commercial judgement

CAPSTONE TRADING SIMULATION

Participants work through three market rounds: day-ahead bidding, intraday adjustment, and final settlement. Teams evaluate changing forecasts, record their trades, measure P&L; and explain their decisions.

Learning outcomes

- Explain the structure, participants and products of power markets.
- Interpret market prices, demand profiles and trading data.
- Make basic buy/sell and portfolio balancing decisions.
- Calculate simple margins, exposures and settlement results.
- Compare PPAs and introductory hedging approaches.
- Apply risk controls and assess trading performance.

Training methodology

Expert-led explanations | Worked numerical examples | Price and bid interpretation | Guided group case studies | Spreadsheet-based calculations | End-to-end trading simulation

Participant takeaways

A clear understanding of wholesale power trading, practical market decision frameworks, completed exercises, and a structured view of trading risk and settlement.