

Course Name

Understanding Electricity Market Regulations & Economic Regulatory Analysis

Sector Name

Electrical Engineering

Document Type

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Understanding Electricity Market Regulations & Economic Regulatory Analysis

Course Introduction

In economic terms, electricity (both Power and Energy) is a commodity capable of being bought, sold, and traded. An electricity market is a system for effecting purchases through bids to buy, sales through offers to sell, and short-term trades, generally in the form of financial or obligation swaps. Bids and offers use supply and demand principles to set the price. Long-term trades are contracts similar to power purchase agreements and generally considered private bilateral transactions between counterparties.

Wholesale transactions (bids and offers) in Electricity are typically cleared and settled by the market operator or a special-purpose independent entity charged exclusively with that function. Market operators do not clear trades but often require knowledge of the trade in order to maintain generation and load balance. The commodities within an electric market generally consist of two types: power and energy. Power is the metered net electrical transfer rate at any given moment and is measured in megawatts (MW). Energy is electricity that flows through a metered point for a given period and is measured in megawatt hours (MWh).

The market mechanisms introduced a new discipline to be used by power systems professionals. This course explores the market

economics and the associated exposure that can be mitigated with financial instruments. The course provides a good understanding of the market structures, the power and energy exchanges, and the hedging instruments that become part of the engineering toolbox. Special attention is given to the identification of Risk Exposure and Mitigation of risk.

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Target Audience

- ✓ Power system protection engineers
- ✓ System planners
- ✓ Technical staff responsible for Smart Grid integration into power system monitoring and control

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Learning Objectives

- ✓ Understanding the Planning and Operating Process
- ✓ Understanding the Financial and Economic Issues
- ✓ Ability to deal with the risks associated with the Market

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Course Outline

✓ DAY 01

Module (01) Risk Management

- ✓ Risk Framework/Metrics
- ✓ Examples of Regulatory Risks
- ✓ Types of Instruments
- ✓ Futures (NYMEX, Amsterdam Exchange)
- ✓ Strategies: Vanilla and Exotic Options
- ✓ Swaps
- ✓ Design of Contracts (ISDA, EEI, OTC, NYMEX)
- ✓ Typical Trades - Futures, SWAPS, OPTIONS
- ✓ Choice of Hedges
- ✓ Real-life Examples
- ✓ Types of Trades - Useful to the Producer
- ✓ Types of Trades - Useful to the Load
- ✓ Advantages/Disadvantages of different Tools

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Course Outline

✓ Day 02

Module (02) Market Economics (Best Practices)

- ✓ Canada
- ✓ USA
- ✓ Europe

Module (03) Lessons Learned from Other Jurisdictions

- ✓ North America Market (FERC)
- ✓ FERC white paper on Transmission Policy
- ✓ Challenges of Scale, Scope, and Timing

Module (04) Elements of Risks

- ✓ Basel Committee for Banking Supervision
- ✓ Market Risk
- ✓ Operational Risk
- ✓ Credit Risk
- ✓ Liquidity Risk
- ✓ Physical Risk of Generating Assets
- ✓ Legal and Regulatory Risks
- ✓ Basic Risk (Locational, etc.)

- ✓ Trading Controls and Best Practices
- ✓ Independent Risk Management
- ✓ Front to Back Office Case Studies
- ✓ Orange County
- ✓ Metallgesellschaft AG
- ✓ Union Bank of Switzerland
- ✓ Enron's Price Maximization
- ✓ Quantitative / Qualitative Risks

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Course Outline

✓ Day 03

Module (05) Concepts of Derivatives Part I

- ✓ Forward Contracts: Contango, Backwardation
- ✓ Futures Contracts
- ✓ Contract Standardization
- ✓ Energy Futures contracts
- ✓ Arbitrage Pricing Theory
- ✓ Convenience Yield
- ✓ Swaps

Module (06) Concepts of Derivatives Part II

- ✓ Option Contracts
- ✓ Strategies Involving Options
- ✓ Basic Options Strategies
- ✓ Call-Put Parity
- ✓ Daily Options, Monthly, Spreads
- ✓ Spark Options on 2 commodities
- ✓ Spark Options on 3 commodities
- ✓ Volumetric or Swing Options
- ✓ Real Options: Power and Physical Constraints

Module (07) Option Valuation

- ✓ Valuation of Option Strategies
- ✓ Closed Form Solutions (Black Scholes)
- ✓ The Binomial Tree Approach
- ✓ Monte Carlo Valuation of Options
- ✓ Examples of Hedging

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Course Outline

✓ Day 04

Module (08) Quantitative Financial Models

- ✓ Quantitative Financial Models
- ✓ Stochastic Factors: Production and Demand
- ✓ Mean Reversion Model, Jumps

Module (09) Market Economics

- ✓ Day Ahead Market
- ✓ Unconstrained Price
- ✓ Constrained Price
- ✓ Bidding Strategy
- ✓ Locational Marginal Price
- ✓ Energy Price Cap

Module (10) Portfolio Analysis

- ✓ Demand
- ✓ Supply
- ✓ Demand & Supply Equilibrium Price
- ✓ Value AT Risk

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Course Outline

✓ Day 05

Module (11) Financial Transmission Rights

- ✓ Transmission Pricing
- ✓ Congestion Management
- ✓ Auction

Module (12) Case Study: Weather Derivatives

- ✓ Weather Risk
- ✓ Description of Weather Contracts
- ✓ Weather Risk Management Instruments

Module (13) Strategic Planning

- ✓ Multiyear Plan
- ✓ Multi Area Forecasting
- ✓ Budget
- ✓ Forward Prices



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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 16, 2027	Aug. 20, 2027	5 days	4240.00 \$	UAE , Dubai
Jan. 11, 2027	Jan. 15, 2027	5 days	5950.00 \$	USA , Texas
May 24, 2027	May 28, 2027	5 days	4250.00 \$	UAE , Dubai
Nov. 29, 2026	Dec. 3, 2026	5 days	4250.00 \$	Oman , Muscat
Dec. 14, 2026	Dec. 18, 2026	5 days	4950.00 \$	Austria , Vienna

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