



Energy Risk Management

15 - 19 Mar 2027
Rome (Italy)



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Ref.: 121397_1030879 **Date:** 15 - 19 Mar 2027 **Location:** Rome (Italy) **Fees:** 7200 **Euro**

Introduction

Energy markets face constant uncertainty from geopolitical shifts, fluctuating prices, and regulatory changes. The Energy Risk Management course equips professionals with the theoretical foundations and analytical tools needed to identify, evaluate, and respond to risks across energy portfolios and infrastructure. Participants will explore global energy risk dynamics, financial exposures, and risk mitigation strategies. It emphasizes conceptual frameworks that improve strategic decision-making within volatile markets. Learners will connect energy risk theory with emerging trends in risk analytics and sustainability considerations. This course builds a deep understanding of risk governance, risk transfer tools, and systemic risk assessments within the energy sector.

Targeted Groups

This Energy Risk Management training targets professionals seeking knowledge and skills:

- Risk analysts and risk officers in energy organizations.
- Energy portfolio managers and schedulers.
- Compliance and regulatory affairs specialists.
- Financial analysts in the oil, gas, and power sectors.
- Energy traders and market strategists.
- Project managers in energy infrastructure development.
- Consultants focused on energy transition and risk strategies.

Course Objectives

Participants will achieve the following objectives by completing the Energy Risk Management course:

- Understand core concepts of energy market risk and risk categories.
- Recognize how price volatility impacts decision-making in energy portfolios.
- Distinguish systematic and unsystematic risk exposures in oil, gas, and electricity markets.
- Demonstrate familiarity with risk identification frameworks and risk quantification techniques.
- Apply theoretical reasoning to real-world case studies on risk events and market disruptions.
- Interpret risk reports and key performance indicators used in energy risk dashboards.
- Assess the influence of regulatory environments on risk management approaches.
- Connect financial risk theory to energy assets, hedging, and risk-transfer mechanisms.
- Illustrate an understanding of emerging risks from energy transition and climate policies.
- Articulate risk governance principles at organizational and portfolio levels.

Targeted Competencies

Participants will gain the following competencies during the Energy Risk Management program:

- Ability to categorize energy risk types and outline risk frameworks.
- Skill in analyzing historical price data to identify volatility patterns.

- Competency in evaluating exposure within energy trading strategies.
- Facility with interpreting quantitative risk measures such as VaR and scenario analysis.
- Proficiency in explaining risk control and mitigation principles to stakeholders.
- Aptitude for synthesizing regulatory risk impacts on compliance and reporting.
- Capability to integrate risk considerations into energy asset valuation.
- Expertise in discussing risk-transfer tools, including futures, options, and swaps.
- The capacity to evaluate the geopolitical and economic risks that influence energy supply chains.
- Competence in constructing risk assessment narratives for executive summaries.

Studying Scenarios

In this Energy Risk Management training, participants develop skills through the following scenarios:

- Study the volatility of crude oil prices during geopolitical events.
- Analyze energy portfolio exposure to sudden shifts in natural gas supply.
- Explore the case of regulatory change impacting electricity market pricing.
- Evaluate risk mitigation strategy using derivative instruments.
- Examine systemic risk influences during global energy demand shocks.
- Apply scenario analysis to forecast exposure under climate policy shifts.
- Assess the effectiveness of risk reporting during historic energy market disruptions.

Course Content

Unit 1: Foundations of Energy Market Risk

- Definition of energy risk in global markets.
- Types of energy risk: price, credit, operational, liquidity.
- Drivers of energy price volatility and market dynamics.
- Influence of supply-and-demand imbalances on risk.
- Role of geopolitical events in energy risk profiles.
- Interaction of macroeconomic indicators with energy risk.
- Conceptual frameworks for risk identification.

Unit 2: Quantitative Tools for Energy Risk Analysis

- Statistical measures of volatility in energy prices.
- Time series approaches to forecasting price movements.
- Scenario analysis fundamentals for risk evaluation.
- Value at Risk VaR concepts applied to energy portfolios.
- Stress testing methods for energy risk exposures.
- Correlation and covariance in multi-asset energy risk modeling.
- Risk modeling frameworks for electricity and fuel markets.

Unit 3: Energy Derivatives and Risk Transfer Mechanisms

- Introduction to energy futures and forwards.
- Options fundamentals for managing price uncertainty.
- Swap agreements and hedging strategies in energy trading.
- Basis risk considerations in derivative strategies.
- Credit risk and margin requirements in energy derivative markets.
- Constructing hedging programs for different energy exposures.

- Practical risk transfer examples in oil, gas, and power.

Unit 4: Regulatory, Compliance, and Governance Considerations

- Overview of regulatory environments in energy markets.
- Compliance risks associated with energy risk reporting.
- Corporate governance principles for energy risk oversight.
- Risk policy development and risk tolerance definitions.
- Internal risk audit mechanisms and assurance practices.
- Standards for reporting risk exposures to stakeholders.
- Best practice templates for risk governance documentation.

Unit 5: Advanced Topics in Energy Risk Management

- Systemic risk and interconnected energy markets.
- Emerging risk from energy transition and sustainability goals.
- Impact of climate policies on energy risk profiles.
- Risk evaluation of renewable energy asset classes.
- Cybersecurity risk and its implications for energy operations.
- Supply chain risk and resilience planning.
- Future directions in energy risk analytics and innovation.

Final Insights & Key Takeaways

Participants will leave with a conceptual mastery of energy risk frameworks and analytical tools essential for strategic risk oversight. The course empowers professionals to interpret risk environments and communicate risk considerations confidently within organizational and market contexts.



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Energy Risk Management**

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