

Advanced Energy Economics

An In-depth Analysis of Concepts, Markets, Regulations, Policies and Transitions

29 Aug - 02 Sep 2022	Boston	US\$ 6,350
24 - 28 Oct 2022	Dubai	US\$ 4,350
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About the Course

This Advanced Energy Economics training course explores the theoretical and empirical perspectives on individual and industrial demand for energy, energy supply, energy markets, and public policies affecting energy markets. It discusses the oil, natural gas, electricity, nuclear power, and renewable sectors and examines energy strategy, taxation, price regulation, deregulation, energy efficiency and policies for controlling emission. Overall, it sheds light on how applied economics and policy tools can effectively shift the global energy sector toward renewable and clean energy sources to mitigate climate change, while promoting economic development and energy security.

The energy sector is facing many challenges today. These challenges are mainly related to environmental concerns, security of supply, contractual complexities and, of course, digitalisation trends. Therefore, this course will mainly focus on the economic analysis of supply and demand, energy global balances and outlook, energy value chains economics, pricing mechanisms, oil & gas economics, electricity and renewable energy economics, digitalisation of the energy industry, and finally the economic impact of environmental/climate policies on oil, natural gas, coal, nuclear, power, and renewable sectors.

All the above-mentioned elements will be covered in this training. First, the delegates will receive essential information about advanced topics in energy economics. Then, through practical case studies and discussions, they will get an in-depth overview of the global energy business's economic, financial, and even geopolitical aspects and its current and future challenges.

Core Objectives

Upon completing this course, the delegate will be able to:

- Assess the economic aspects of the global energy business and its recent transformation trends
- Analyse energy value chains, market structures and their characteristics in terms of costs, contracts, and pricing
- Recognise the main economic factors affecting the global energy business
- Understand environment issues related to global energy transition challenges
- Evaluate the techno-economic aspects of energy production and consumption
- Perform economic and financial analysis of oil and national gas energy systems

- Analyse challenges and opportunities of evolving electricity markets
- Identify predicted effects of various policy outcomes on markets, as well as on the environment and social systems
- Assess economic and socio-political dimensions of international energy in detail

Training Approach

This training course will combine presentations with practical exercises, hands-on projects, and case studies. The delegates will be encouraged to participate actively in the questions & answers sessions. Moreover, specific expectations of each delegate will be discussed to ensure that they are treated as much as possible.

The Attendees

This training course would greatly benefit almost anyone interested in improving their knowledge of energy economics. Likewise, it will be valuable to the professionals but not limited to the following:

- Policy & Decision Makers
- Energy Planners, Managers, Economists, Engineers
- Investors
- Consultants
- Project Managers and Developers
- HR or Administrative Managers
- Financial Managers & Analysts

DAILY DISCUSSION

DAY ONE

ENERGY SYSTEMS ECONOMICS

- Definitions, Data, Units, and Sources
- Global Energy Supply and Demand Situation
- Global Energy Supply and Demand Evolution
- International Energy Scene
- Global Energy Policies

DAY TWO

ADVANCED OIL & GAS ECONOMICS

- Oil and Natural Gas Value Chain: Production, Refining & Distribution
- Economic Evaluation of Oil & Gas Projects
- Price Discovery and Markets Structure
- Transformative Features and Signposts
- Future of the Oil & Gas Business

DAY THREE

ADVANCED ELECTRICITY ECONOMICS

- Global Electricity Chain Structure
- Global Power Generation Means & Mixes
- Electricity Cost Structures and Calculation
- Electricity Pricing Mechanisms
- Electricity Market Structure and Transformation

DAY FOUR

INVESTMENT AND PROFITABILITY ANALYSIS

- Interest Rates and Price of Capital
- Inflation Adjustments and Impacts
- Applied Capital Budgeting in Energy
- Advanced Financial Analysis of Energy Projects
- Advanced Investment Decision-making Methods

DAY FIVE

ENERGY ECONOMICS AND ENVIRONMENT

- Renewable Energies Economics
- Energy Transition Economics
- Economic Analysis of Support Schemes & Policies
- Energy Systems Modeling and Environment
- Future Challenges and Opportunities