

Fundamentals of Energy Economics (online)

Course Introduction

Welcome to our comprehensive course on energy economics, where we will take a deep dive into the creation and use of energy in society. With many regions moving towards deregulated energy markets, it is crucial to have qualified professionals who can facilitate this transition. Our program is designed to help strategic decision-makers, economists, policy advisors, regulators, and current or aspiring engineers to gain a comprehensive understanding of energy markets.

Through a combination of economic theory and real-world examples, we will provide a deep understanding of the complex energy system. Our focus will be on the fundamental principles that drive energy markets, the various types of markets, the importance of electricity networks, and the incentives for investing in the electricity sector. Additionally, we will explore the economics behind renewable energy sources and other technological advancements that can facilitate the transition towards a sustainable energy future.

Once we cover the basics, we will shift our attention towards the future, speculating on how we can transition from the current market to future markets. This training course will cover basic microeconomics concepts and the characteristics of energy markets, different types of electricity and energy markets, the challenges and opportunities of electricity markets, the effect of renewable energy on electricity markets, and the importance of energy transition and the economic perspective towards it.

Join us to gain insight into how modern energy markets work, the recent developments they have undergone, and the direction they are headed towards in the future.

Course Objectives

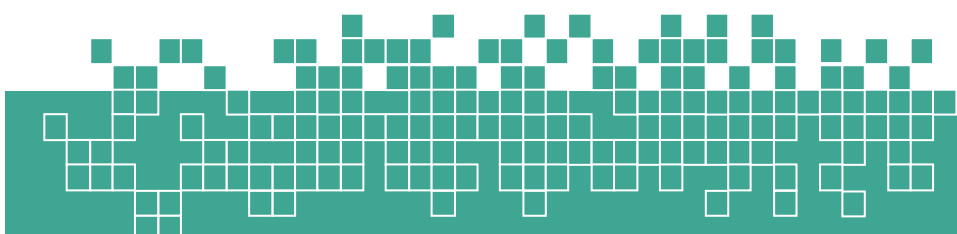
This Fundamentals of Energy economics course aims to enable participants to achieve the following objectives:

- Understand the principles of energy economics
- Know the role of energy economics
- Identify energy market operation, structure, and value chain
- Understand the Energy transition from an economic perspective

Why You Should Attend

Besides achieving the course objectives, the course is

- Flexible for busy people who want to advance their careers and gain new knowledge without disrupting their professional lives
- Course materials are updated continuously to reflect the latest trends in the industry
- Course material extracted from real-life case studies
- The lecturer for the course is a highly qualified expert in policy and economics, with extensive experience, numerous publications, and research studies.



At the End of the Course, You Will Be Able To

- Identify the energy economics role and principles
- Explain the challenges that face electricity markets
- Assess Energy transition dynamics and challenges
- Explain the future of energy markets

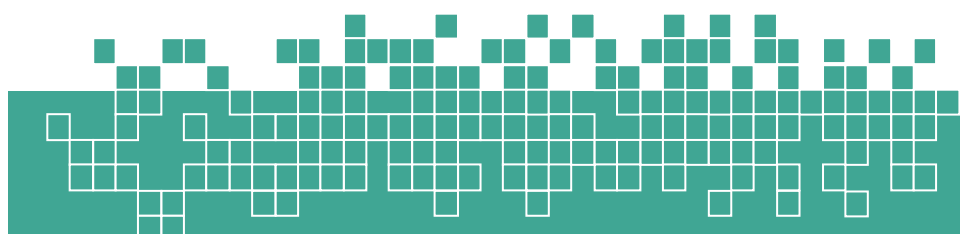
Who Should Attend?

This course is suitable for a wide range of professionals but will greatly benefit:

- Personnel involved in the energy markets
- Staff of electricity and oil& gas authorities
- Officials from policy-making institutions
- Employees of energy companies
- Professionals working in Energy Industry

Course Syllabus

Day 1: Introduction Economics	
Session 1 (7:00 - 8.45)	• Introduction to Markets • How markets work, Supply & Demand • Market types • Total cost, average costs, and marginal costs
Session 2 (8:45 - 10:30)	• Short-term and long-term supply and demand • Energy market design • Energy market dynamics
Day 2: Electricity and Gas Market markets	
Session 1 (7:00 - 8.45)	• Types of Markets • Spot market • Forward contract and forward market • Future contracts and futures markets • Options • Contracts for difference
Session 2 (8:45 - 10:30)	• Introduction to the global gas market • The natural gas value chain • Gas market structure and main actors
Day 3: Economics of Energy Transition	



Session 1 (7:00 - 8.45)	• Renewable energy effect on the electricity market • Costs and benefits, The value of variable renewable energy
Session 2 (8:45 - 10:30)	• Flexibility investment options • System transformation and market design

Course mode: Interactive face to face Online¹

Course duration: 10-11 hours

Course fees: USD 300

For any inquiries, please get in touch with info@energytics.net

¹ Face to Face course could be organised (kindly contact us for more details and fees)