TECHNICAL EDUCATION ACADEMY

School of Business and Management

COURSE PROGRAMME

000445

The Economics of Energy Transition

With the energy transition on the top of the agenda within the energy sector, an efficient and sustainable energy system reliably serving customers is needed more than ever.



Learn from the Best in the Business!

Course overview

Foundation level

Why take this course

With the energy transition on the top of the agenda within the energy sector, an efficient and sustainable energy system reliably serving customers is needed more than ever. This programme aims to help strategic decision makers, economists, policy advisors and regulators as well as practicing and future engineers to obtain a deeper understanding of energy markets. You will learn how modern energy markets operate, the latest changes they are undergoing and the direction they are aiming towards for the future.

In order to realize how one can, encourage change and develop an innovative energy policy, an understanding of the economics of energy systems and its current issues is essential. Therefore, in the first part of the course you will get to grips with the fundamentals of the energy markets and what influences their design and regulation. The economic theory is explained and illustrated using the European electricity markets.

Using real life examples, we will dive into the complex energy system and understand the economic principles that drive it, the differing energy markets that exist, the important role of the electricity networks and how investment in the electricity sector is incentivized. After the first step, it is time to start speculating about the future. How do we transition from the present market to what the European Union has envisioned for 2050?

In the second part of the course, you will learn about the economics of different renewable energy sources and other technologies that can aid this transition. You will examine the business cases of renewable energy sources and technologies that can aid energy transition, and government policies currently being used to promote their growth. Find out how the EU intends to decarbonize.

Insightful videos will teach you the driving factors behind European energy markets of both today and tomorrow. Interactive assignments will demonstrate how the merit order is chosen for different types of markets, applying the knowledge to many different scenarios. Live practice sessions will take you through the auctions and marketplaces where trading for electricity, carbon credits and government policy and subsidies for renewable energy takes place today, giving you invaluable knowledge on the inner workings of these markets.

Who it is for and how it helps

This course is for anyone wanting to learn about the challenges and opportunities of energy transition in building a sustainable economy.

What you will learn

- Explain the functioning of energy markets, with the European electricity markets as an example
- Explain the need for an energy transition and different economic approaches for achieving this
- Use the economic tools and instruments necessary for stimulating the energy transition

Course overview — continued

- Discuss energy transition policies and the regulations needed with policy makers and consumer organizations
- Assess the effectiveness of economic policy measures in energy transition

Curriculum

Modules 01–02

01 Energy Markets of Today

- Key elements of energy markets
- Different types of market models and what effects the energy market
- The economics of generation investment and capacity mechanisms
- Energy Networks and congestion management

02 The Transition to the Decarbonised Economy of Tomorrow

- Key elements of energy markets and the energy transition
- The economics of renewables and renewable energy policies
- Decarbonization and carbon markets
- Energy Vision of the European Union
- Next steps forward

Joining the programme

Contact the Academy and quote course code 000445 to confirm dates, delivery format, prices and enrolment terms.

Training for your team

Tell us your business goals, the roles and number of participants, and your preferred dates and location. This will help us discuss the right training option.

Preparing for the programme

The published programme does not specify any prerequisites. Contact us before enrolling to confirm how to prepare.

Discuss your training needs

mail@tecedu.org
www.tecedu.academy

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