

Energy Transition (online)

Course Introduction

The global energy industry is currently experiencing a remarkable transformation as cutting-edge innovations like solar and wind power, hydrogen, and prosumers are emerging. These developments have the potential to revolutionise the industry, but their benefits and impacts are closely intertwined, making it an enormous challenge to determine the most effective implementation strategy. This course offers an all-encompassing overview of the energy transition, including the challenges and promising technologies involved, as well as the crucial role played by hydrogen in this transition. This training course will highlight the following:

- Why energy transition is needed
- Definition of energy transition
- Challenges for energy transition
- Latest innovations and solutions to implement energy transition

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 course lecturer has well-established publications in energy transition, demonstrating his expertise and skills.

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

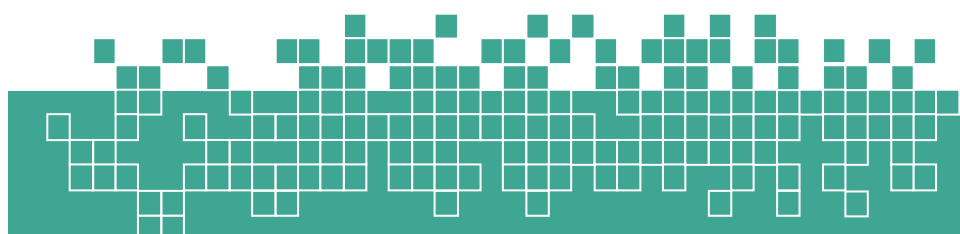
After finishing this course, the trainees will be able to:

- Define energy transition and its requirements
- Identify the challenges and obstacles for the energy transition
- Explain the possible technologies and innovations that can aid in achieving a smoother transition towards cleaner and sustainable energy sources.

Who Should Attend?

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

- Individuals who want to learn about energy transition
- professionals who plan to work in the energy field
- Enthusiastic persons about decarbonisation technologies
- Persons who want to learn about the energy systems



Course lecturer

The lecturer's more than 15 years of expertise in various areas of energy is truly inspiring. With multiple master's degrees, he approaches the topic from various viewpoints, such as technical, policy, and economics. The expert has worked with both national and international organizations, including the EU, GIZ, MEDREG, RCREEE, UNIDO, and UNDP, on a variety of projects, including energy audits and long-term energy planning.

Moreover, the lecturer has published several works in both Arabic and English languages, reflecting the latest technologies in renewable energy and energy efficiency. His research also highlights the latest policies and regulations, such as the recent publication about hydrogen development in Egypt with The Oxford Institute for Energy Studies. It's clear that the lecturer's passion for energy has driven him to produce high-quality research and inspire others to make a positive impact on the world.

Course Syllabus

- Climate change problem and effects
- Climate change goals
- What is energy transition
- Pillars of energy transitions
- Renewable energy technologies to achieve climate goals
- Problems of renewable energy technologies
- Technologies to overcome renewable energy problems (Energy storage, demand response....)
- Other technologies for energy transition (e.g. hydrogen, CCS)
- Electric vehicle's role in energy transitions
- Sector coupling

Day 1: What is energy transition	
Session 1 (7:00 - 8.45)	• Climate change: need for change • Definition of Energy transition • Energy trilemma
Session 2 (8:45 - 10:30)	• Overview of Renewable energy resources • The problem of renewable energy
Day 2: Technologies	
Session 1 (7:00 - 8.45)	• Energy storage • Demand response • Flexible power generation
Session 2 (8:45 - 10:30)	• Hydrogen's role in energy transition • EV role in Energy Transition • Sector coupling

Course mode: Interactive Online¹

Course duration: 7 hours

Course fees: 200 USD

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)