

Informa Connect

Academy



# Energy Transition Fundamentals

Explore the shift from traditional to sustainable energy with a technology-driven approach.

Course Level: Essential



Duration: Two Days  
Attend In-Person

# Course Information

## Course Overview

The main objectives are to equip participants with a thorough knowledge of various energy generation types including wind, coal and nuclear, and to explore the technological advancements and policy frameworks that are shaping the future of energy.

The course aims to critically evaluate the challenges and opportunities within the energy sector, emphasising a balanced, realistic and pragmatic approach. By the end of this course, participants will be well-prepared to understand the key issues related to energy and the so-called energy trilemma, and be capable to navigate and contribute to the evolving energy landscape with informed and innovative perspectives.

What makes this course unique is its foundation in real-world industry experience rather than pure theoretical or dogmatic perspectives. With over three decades in the energy sector, I bring a progressive yet pragmatic view, informed by firsthand knowledge of the industry's complexities and challenges. As an author and speaker, I am a critical observer and vocal critic of some ill-informed policy decisions on energy transition, particularly those leading to the deindustrialisation of Europe – with Germany being a notable example. I strongly believe this course provides a much more realistic and balanced perspective on these fundamental issues that have such a heavy bearing on the future of our society.

The course will examine the energy transition with a focus on the specific contexts of the Middle East, Asia, and North Africa, rather than a pan-European or Western-centric view. We will critically analyse both successful initiatives and misguided policies, ensuring that participants gain a comprehensive understanding of the global energy landscape.

Moreover, the course is designed to be highly interactive and practical. We focus on real-world applications through case studies, hands-on exercises, and role-playing activities that prepare participants to tackle actual challenges in their professional environments. The blend of expert-led lectures and practical components ensures that participants leave with actionable insights and skills.



# Course Information

## Key Learning Outcomes

- Comprehensive understanding of diverse energy technologies including coal, gas, solar, wind, hydropower, and nuclear.
- Proficiency in navigating global and regional energy policies to ensure strategic alignment and compliance.
- Mastery of technical solutions such as energy efficiency measures, smart grids, and energy storage for enhanced sustainability.
- Skills to evaluate the financial viability of energy projects and deploy effective investment strategies.
- Specialised knowledge of Middle Eastern energy challenges, focusing on economic diversification and regional renewables.
- Critical thinking to distinguish between feasible projects and idealistic aspirations in practical energy transitions.

## Who Should Attend

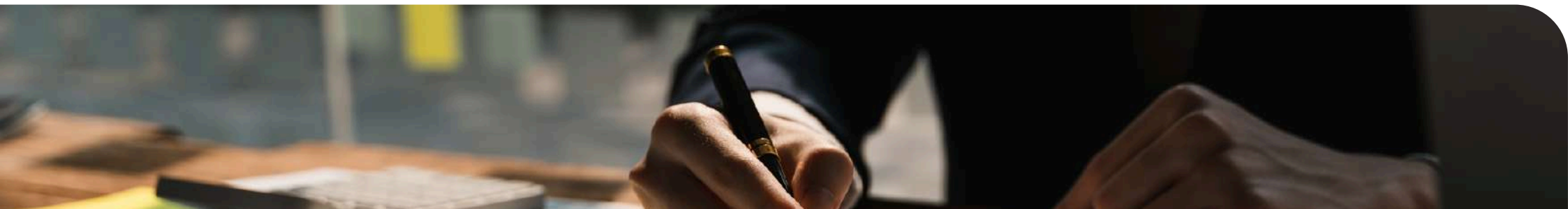
This course is crafted to be highly relevant and beneficial for professionals across various sectors, including finance, technology, consulting and policy-making, who need a solid understanding of the energy landscape. It is also ideal for those new to the energy sector, as well as entry-level to intermediate professionals within the industry, who are keen to expand their knowledge and stay ahead in their careers. By offering practical insights and foundational knowledge, this course equips participants to make informed decisions and drive progress in their respective fields, while ensuring it remains accessible and valuable to a broader audience.

## Learning Style

Our training methods are designed to be engaging and interactive, combining expert-led lectures with group discussions, relevant video clips, hands-on exercises and problem-solving sessions. Participants will benefit from a mix of theoretical knowledge and practical insights, ensuring they can apply what they learn directly to their professional contexts. Additionally, we will use case studies to illustrate both successful and failed energy transition projects and will look at various innovative solutions, thus providing participants with a well-rounded and actionable understanding of this complex topic.

To help participants stay motivated throughout the course, we will employ a variety of effective strategies. Firstly, we will create an engaging and interactive learning environment, utilising a mix of lectures, presentations, group discussions and hands-on exercises to keep participants actively involved.

We will also provide continuous support and feedback, ensuring that participants have the resources and guidance they need to understand complex concepts and apply them effectively. This includes access to supplementary materials, one-on-one mentoring sessions, and opportunities for peer-to-peer learning.



# Course Information

## Competencies

These are the main capabilities/proficiencies that the course will equip the delegates with:

- Understanding Energy Fundamentals, Energy Generation, Emissions and Climate Impact
- Energy Trilemma
- Technological Advancements in Generation, Transmission, Storage, Utilisation
- Sustainability applied to Energy, myths and reality
- Case studies illustrating successful and failed energy transition projects
- Energy mix of the future – future is not electric, but eclectic

## Added Value

By joining this course, you will understand why energy is the VERY foundation of the society and how complex the energy transition conundrum really is. You will gain a balanced and comprehensive understanding of the energy complexities and the energy trilemma that impacts transition, an understanding grounded in practical industry experience and designed to equip you with the tools needed to make informed decisions and drive progress in your field.

## Course Requirements and Certificates

Delegates must meet two criteria to be eligible for an Informa Connect Academy Certificate of Completion:

- **Satisfactory attendance** - Delegates must attend all sessions of the course. Delegates who miss more than 2 hours of the course sessions will not be eligible to sit the course assessment
- **Successful completion of the course assessment** - Assessments will be ongoing and based on in-class participation and activities

Delegates who do not meet these criteria will receive an Informa Connect Academy Certificate of Attendance. If delegates have not attended all sessions, the certificate will clearly state the number of hours attended.





# Meet Your Course Director



## Adrian Blanck

Adrian Blanck is an international energy expert focusing on digital innovation & strategy, performance optimisation and business transformation. Adrian has a value creation track record of 30 years with Aramco, Total and Shell in a variety of management roles requiring technical, commercial and financial expertise, as well as in consultant and board-level advisory roles with Accenture.

Adrian has a Bachelor Degree in Mechanical Engineering, a Masters in Hydraulic Automations from the Polytechnic University of Bucharest, an MBA with focus on Strategy and Finance from INSEAD and a Doctoral Degree in Business Administration from the University of Manchester, where he focused on digitalisation and data-driven decision making.

During his last 10 years with Aramco, Dr. Blanck has advised several Aramco joint ventures and subsidiaries (Petro Rabigh, Sadara and Luberef) on key organisational issues related to digital transformation, operational excellence, energy efficiency, sustainability, performance management and process optimisation.

Dr. Blanck is an active contributor and speaker on key issues ranging from energy transition and sustainability to digital transformation and automation.

Adrian is currently Chief Digitalisation Officer for Saudi Aramco Base Oils Company.



# Course Outline

## Day One: Understanding the Energy Transition Landscape

- Overview of the course
- Objectives and expected outcomes
- Introduction to instructors and participants

### Session 1: Introduction to Energy Transition

- Overview of global energy transition trends
- Key drivers of energy transition (economic, environmental, policy)
- Introduction to various energy technologies: coal, gas, solar, wind, hydropower, nuclear
- Importance of integrating renewable energy into existing systems

### Session 2: Renewable Energy Technologies

- Solar energy systems: design, implementation, integration
- Wind power: onshore and offshore wind turbines
- Hydropower and biomass energy production
- Technological advancements and challenges in renewable energy

### Session 3: Energy Policies and Regulatory Frameworks

- Understanding global and regional energy policies
- Impact of the Paris Agreement and other international regulations
- Navigating local regulatory landscapes
- Strategic alignment with policy goals

### Session 4: Technical Solutions for Energy Efficiency

- Energy management systems (EMS) and demand-side management (DSM)
- Smart grid technologies and their role in energy transition
- Energy storage solutions: Battery Energy Storage Systems (BESS)
- Enhancing system reliability and sustainability

### Session 5: Debunking Technological Myths

- Common misconceptions about renewable energy technologies
- Realistic expectations for emerging technologies
- The role of hydrogen and carbon capture in energy transition
- The impact of digitalisation and automation in energy management

### Recap and Q&A Session

- Summary of key points covered
- Open floor for questions and discussion
- Participant reflections and feedback

### Activities for Day 1:

- Case Study Analysis (Session 3):
  - Group activity: Analyse a real-world case study of a successful renewable energy project
  - Discussion on challenges faced and strategies used to overcome them
- Role Play (Session 5):
  - Role play: Stakeholder engagement in a renewable energy project
  - Participants will assume different roles (e.g., policymakers, investors, engineers) to navigate project challenges

# Course Outline

## Day Two: Pragmatic Approach, Strategic Implementation, and Technological Focus

- Overview of the day's agenda
- Recap of Day 1

### Session 1: Advanced Technologies in Energy Transition

- In-depth exploration of Carbon Capture, Utilization, and Storage (CCUS)
  - Current technologies and their applications
  - Challenges and opportunities in CCUS implementation
- Detailed analysis of Hydrogen Economy
  - Green hydrogen production and utilisation
  - Hydrogen fuel cells and infrastructure requirements

### Session 2: Middle Eastern Energy Context

- Overview of the Middle Eastern energy landscape
- Challenges and opportunities for renewable energy in the region
- Economic diversification strategies
- Regional case studies and best practices

### Session 3: Practical Energy Transition Solutions

- Energy efficiency measures and their practical applications
- Grid integration and stability with high renewable penetration
- Real-world applications of smart grid technologies
- Case studies of successful energy transition projects

### Session 4: Distinguishing Facts from Fiction in Energy Technologies

- Critical assessment of energy transition technologies
- Identifying feasible projects versus aspirational goals
- Addressing common misconceptions and myths in the energy sector
- Case studies highlighting practical implementations and outcomes

### Session 5: Future Trends and Innovations

- Emerging trends in the energy sector
- Innovations driving the future of energy transition
- Preparing for the future: skills and knowledge needed
- Building a resilient and sustainable energy system
- Summary of key points covered
- Open floor for questions and discussion
- Participant reflections and feedback

### Recap and Q&A Session

- Summary of key points covered
- Open floor for questions and discussion
- Participant reflections and feedback

### Course Closure Quiz, 30 Questions, Multiple Choice Answers

### Activities for Day 2:

- Group Discussion (Session 2):
  - Group discussion on the unique challenges of implementing renewable energy projects in the Middle East
  - Action planning for addressing these challenges
- Breakout Sessions (Session 3):
  - Breakout sessions: Developing a strategic plan for an energy transition project
  - Each group will focus on different aspects (technical, financial, policy, regional) and present their plans

# Energy Transition Fundamentals

APPLY  
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| Course                         | Final Fee  |
|--------------------------------|------------|
| Energy Transition Fundamentals | US\$ 3,445 |

Pricing excludes 5% VAT, charged where applicable.

To Register Click Here

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## ABOUT INFORMA CONNECT ACADEMY

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## ABOUT PRICING AND DOCUMENTATION

Pricing excludes 5% VAT, charged where applicable.

Course fees include documentation, luncheon and refreshments for in-person learners. Delegates who attend all sessions and successfully complete the assessment, will receive a Informa Certificate and any applicable partner certificates. A hard copy will be provided to in-person learners and a soft-copy will be provided to virtual learners.

## AVOID VISA DELAYS – BOOK NOW

Delegates requiring visas should contact the hotel they wish to stay at directly, as soon as possible.

Visas for non-GCC nationals may take several weeks to process.

## REGISTRATION, PAYMENTS AND CANCELLATION

All registrations are subject to our terms and conditions which are available at [www.informa-mea.com/terms](http://www.informa-mea.com/terms). Please read them as they include important information. By submitting your registration, you agree to be bound by the terms and conditions in full. All registrations are subject to acceptance by Informa Connect which will be confirmed to you in writing.

A confirmation letter and invoice will be sent upon receipt of your registration. Please note that full payment must be received prior to the course. Only those delegates whose fees have been paid in full will be admitted to the course.

For full cancellation details, please visit <https://informaconnect.com/terms-of-use/>. All cancellations must be sent by email to [register-mea@informa.com](mailto:register-mea@informa.com) marked for the attention of Customer Services Cancellation. Due to unforeseen circumstances, Informa Connect reserves the right to cancel the course, change the programme, alter the venue, speaker or topics. For full details, please visit [www.informaconnect.com](http://www.informaconnect.com)

ENERGY

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