



Adapting to the New Energy Paradigm: The Role of Oil and Gas Training Course

20 - 24 Apr 2026



Lisbon



4400 € (Per Person)

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Course Introduction / Overview:

The global energy landscape is undergoing a profound shift, driven by climate imperatives and technological innovation. The traditional role of the oil and gas industry is evolving, moving from being the sole provider of energy to a key player in a diversified, sustainable energy future. This dynamic environment presents both challenges and unparalleled opportunities for professionals in the sector. BIG BEN Training Center presents this comprehensive training course, which is designed to provide participants with the essential knowledge and skills to navigate this transition effectively. The course explores the technical, economic, and strategic aspects of integrating renewable energy and low-carbon solutions into existing oil and gas operations. It also covers the application of sustainability frameworks and the implementation of decarbonization strategies. By examining the current market, including the economic drivers and regulatory pressures that influence investment, we offer a holistic view of energy transition. Drawing on insights from leading academics in the field, such as Thomas Walker and Sergey Barabanov, and their book *Sustainability in the Oil and Gas Sector*, this program provides a robust foundation for understanding the complex interplay between conventional energy and emerging sustainable technologies.

Target Audience / This training course is suitable for:



- Oil and gas engineers, geologists, and operations managers.
- Corporate strategists and business development professionals.
- Environmental and sustainability managers.
- Policy analysts and government officials in the energy sector.
- Financial analysts and investors focused on energy markets.
- Project managers overseeing energy-related initiatives.
- Academics and researchers in energy studies.

Target Sectors and Industries:

- Oil and gas exploration, production, and refining.
- Renewable energy development and technology.
- Energy investment and finance.
- Government agencies and regulatory bodies.
- Consulting firms specialize in energy and sustainability.
- Utilities and power generation.
- Manufacturing and heavy industries with significant energy consumption.

Target Organizations Departments:

- Corporate strategy and planning.
- Environmental, social, and governance (ESG) departments.
- Engineering and operations.
- Research and development.
- Business development.
- Government relations.
- Risk management.



Course Offerings:

By the end of this course, the participants will have able to:

- Analyze the drivers and challenges of the global energy transition.
- Evaluate the technical and economic feasibility of integrating renewable energy solutions with existing oil and gas operations.
- Apply sustainability frameworks and strategies to enhance corporate performance.
- Identify and assess opportunities in low-carbon technologies, including carbon capture and storage.
- Understand the evolving role of natural gas and other hydrocarbons in a transitional market.
- Formulate effective strategies to manage environmental and regulatory risks.
- Develop business cases for sustainable energy projects within the oil and gas sector.

Course Methodology:



This intensive training course uses a mix of interactive and practical methodologies to help participants fully grasp the complex concepts of the energy transition. Our approach is designed to foster a dynamic learning environment where participants can apply new knowledge in real-world scenarios. We use a combination of expert-led lectures, engaging group discussions, and interactive workshops to explore key topics. Participants will work on a variety of case studies from leading oil and gas companies that have successfully implemented sustainable practices, allowing them to examine challenges and solutions firsthand. Team-based exercises will promote collaborative problem-solving, mirroring the cross-departmental efforts required for a successful energy transition. Additionally, we use simulation exercises to model the financial and operational impacts of different energy strategies. The program emphasizes continuous feedback, with facilitators providing guidance on individual progress and team projects. All of this helps to ensure that participants not only understand the theory but also have the tools to implement change within their own organizations. BIG BEN Training Center is committed to providing a learning experience that is both rigorous and relevant to the demands of the modern energy sector.

Course Agenda (Course Units):

Unit One: The Energy Transition in Context Drivers and Challenges.



- The global energy landscape and its evolution.
- Key drivers of the energy transition: climate change and technology.
- The role of oil and gas in the current energy mix.
- Future energy scenarios and projections.
- The challenge of meeting growing energy demand sustainably.
- Introduction to the energy trilemma.
- Economic and geopolitical implications.

Unit Two: Strategic Responses of the Oil and Gas Industry Decarbonization and Diversification.

- Corporate strategies for a low-carbon future.
- Decarbonization of operations: emissions reduction and efficiency.
- Investing in renewables: solar, wind, and geothermal energy.
- The potential of carbon capture, utilization, and storage (CCUS).
- Hydrogen and biofuels as emerging opportunities.
- The importance of digitalization and data analytics.
- Case studies of successful corporate transitions.

Unit Three: The Evolving Role of Natural Gas and LNG A Bridge Fuel to a Sustainable Future.

- The strategic importance of natural gas in the energy transition.
- The role of liquefied natural gas (LNG) in global energy security.
- Methane emissions reduction and management.
- Renewable natural gas and biomethane.
- The integration of natural gas with renewable energy grids.
- Policy and regulatory frameworks for natural gas.
- Economic viability of natural gas projects.

Unit Four: Financial and Investment Strategies Funding Transition.



- Capital allocation in a changing energy market.
- The rise of Environmental, Social, and Governance (ESG) investing.
- Accessing green financing and sustainable bonds.
- Risk management in energy transition projects.
- Valuation of oil and gas assets in a low-carbon economy.
- The role of financial institutions in promoting sustainability.
- Investment case studies.

Unit Five: Policy, Governance, and Sustainability a Holistic Approach.

- Global climate agreements and their impact on industry.
- National energy policies and regulations.
- Corporate governance for sustainability.
- Stakeholder engagement and communication.
- The importance of transparent reporting.
- Developing a robust sustainability framework.
- Final project presentations and review.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each day session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:



From an economic perspective, how can a company justify significant short-term capital expenditures on low-carbon technologies when long-term profitability is dependent on evolving market dynamics and unpredictable regulatory landscapes?

What unique qualities does this course offer compared to other courses?

This training course provides a truly integrated view of the energy transition, moving beyond basic concepts to offer a deep dive into practical, strategic applications. We do not just discuss the future of sustainable energy; we show participants how to adapt their existing oil and gas expertise to thrive in that future. The curriculum is specifically designed to address the unique challenges of the oil and gas sector, offering tailored solutions that are often overlooked in more general sustainability programs. Our focus on both technical and financial aspects, from decarbonization technologies to ESG investment frameworks, gives participants a comprehensive skill set. The program uses a diverse array of case studies and interactive exercises, which are drawn from real-world scenarios, making the learning process highly relevant and applicable. You will not only learn the theoretical underpinnings of the energy transition but also gain the practical insights needed to lead your organization's journey. This program equips professionals with a forward-looking perspective, enabling them to identify and capitalize on new opportunities in a rapidly changing market.