

COURSE OVERVIEW TM0505
The Energy Industry: Markets & Trends

Course Title

The Energy Industry: Markets & Trends

Course Date/Venue

July 27-31, 2026/Glasshouse Meeting Room,
 Grand Millennium Al Wahda Hotel, Abu Dhabi,
 UAE

Course Reference

TM0505

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs



Course Description



This practical and highly-interactive course includes real-life case studies where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of The Energy Industry: Markets and Trends. It covers the global energy industry, global energy supply and demand fundamentals and oil and gas industry value chain; the major energy resources, company's role in the global energy market, energy industry terminology and key performance indicators; the global oil markets, natural gas and LNG markets and energy pricing fundamentals; the OPEC and international energy organizations, geopolitical influences on energy markets and economic drivers of energy markets; and the global energy transition, renewable energy technologies and carbon management technologies.



During this interactive course, participants will learn the digital transformation in energy, innovation in oil and gas and company's innovation and sustainability initiatives; the current global energy trends, future oil and gas outlook and ESG and sustainability in the energy industry; the energy policies and regulatory developments, investment and business strategy; the competitive landscape in the energy industry, future energy scenarios, research and technology opportunities and risk management in energy markets; and the strategic decision-making in the energy industry covering market intelligence, data-driven decisions, strategic planning and business agility.



Course Objectives/Outcomes & Benefits for the Participants

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on markets and trends of energy industry
- Discuss global energy industry, global energy supply and demand fundamentals and oil and gas industry value chain
- Identify major energy resources, company's role in the global energy market, energy industry terminology and key performance indicators
- Explain global oil markets, natural gas and LNG markets and energy pricing fundamentals
- Interpret OPEC and international energy organizations, geopolitical influences on energy markets and economic drivers of energy markets
- Recognize the global energy transition, renewable energy technologies and carbon management technologies
- Discuss digital transformation in energy, innovation in oil and gas and company's innovation and sustainability initiatives
- Recognize current global energy trends, future oil and gas outlook and ESG and sustainability in the energy industry
- Carryout energy policies and regulatory developments as well as investment and business strategy
- Describe the competitive landscape in the energy industry, future energy scenarios, research and technology opportunities and risk management in energy markets
- Implement strategic decision-making in the energy industry covering market intelligence, data-driven decisions, strategic planning and business agility

Exclusive Smart Training Kit - H-STK®



*Participants of this course will receive the exclusive “Haward Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of the markets and trends of energy industry for senior specialists in research and technology, chief executive officers (CEOs), chief operating officers (COOs), general managers, business development managers, strategy and planning managers, commercial managers, marketing and sales managers, energy market analysts, trading and risk management professionals, finance and investment professionals, procurement and supply chain managers, project managers, operations managers, engineers seeking commercial awareness of the energy sector, government and regulatory officials, policy makers and energy advisors, sustainability and ESG professionals, consultants in the energy, oil & gas, and utilities sectors, investors and financial analysts.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations:

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British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.
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The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Course Fee

US\$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Dr. John Petrus, PhD, MSc, BSc, is a **Senior Reservoir Engineer & Geologist** with over **30 years of onshore & offshore** experience within the **Oil & Gas, Refinery and Petroleum** industries. His wide experience covers in the areas of **Global Energy Industry, Global Energy Supply & Demand Fundamentals, The Global Energy Transition, Advanced Analytics** in Oil & Gas **Production Technology & Engineering, Well Completions, Well Logs, Well Stimulation & Production Logging, Well Completion Design & Operation, Well Surveillance, Well Testing, Well Stimulation & Control and Workover Planning, Completions & Workover, Hole Cleaning & Logging, Servicing and Work-Over Operations, Wellhead Operations, Maintenance & Testing, Petrophysics/Interpretation of Well Composite, Reservoir & Tubing Performance, Practical Reservoir Engineering, Clastic Exploration & Reservoir Sedimentology, Carbonate Reservoir Characterization & Modeling, Seismic Interpretation, Mapping & Reservoir Modelling, Reservoir Geology, Integrating Geoscience into Carbonate Reservoir Management, Faulted & Fractured Reservoirs, Fractured Hydrocarbon Reservoirs, Analyses, Characterization & Modelling of Fractured Reservoirs & Prospects, Fracture Reservoir Modeling Using Petrel, Reservoir Engineering Applied Research, Artificial Lift, Artificial Lift System Selection & Design, Electrical Submersible Pumps (ESP), Enhance Oil Recovery (EOR), Hydraulic Fracturing, Sand Control Techniques, Perforating Methods & Design, Perforating Operations, Petroleum Exploration & Production, Hydrocarbon Exploration & Production, Exploration & Production, Play Assessment & Prospect Evaluation, Formation Evaluation, Petroleum Engineering Practices, Petroleum Hydrogeology & Hydrodynamics, Project Uncertainty, Decision Analysis & Risk Management, Decision Analysis & Uncertainty Management, Exploration & Development Geology, Sedimentology & Sequence Stratigraphy, Structural Interpretation in Exploration & Development, Petrel Geology, Geomodeling, Structural Geology, Applied Structural Geology in Hydrocarbon Exploration, Petrophysics, Geology of the Oil & Gas Field, Geophysics, Geothermal, Geochemical & Geo-Engineering and Drilling Applied Research, Field Geological Outcrop Mapping & Digital Cartography, Geological Modelling, Geoscience Management in E&P, Geoscience Modelling, Geological Mapping, Structural Geology-Tectonics, Structural Analysis, Tectonic Modelling and Numerical Simulation of Fractured Prospects & Reservoirs, Fracture Network Analysis & Modelling, Prospect Generation, Global Networking, Research and Technology Development Management for Fault & Fracture Analyses & Modelling, Fracture Modelling, Dynamic Modelling, Structural Model using Petrel, G&G Seismic & Well Data Modelling, GIS System Management, Database Management, Strategic Planning, Best Practices and Workflow, Quality Management, Project Management and Risk Assessment & Uncertainty Evaluation. Further, he is also well-versed in **seismic interpretation, mapping & reservoir modelling tools** like **Petrel** software, **LandMark, Seisworks, Geoframe, Zmap** and has extensive knowledge in **MSDos, Unix, AutoCAD, MAP, Overlay, Quicksurf, 3DStudio, Esri ArcGIS, Visual Lisp, Fortran-77 and Clipper**. Moreover, he is a world **expert in analysis and modelling of fractured prospects and reservoirs** and a **specialist and developer of fracture modelling software tools** such as **FPDM, FMX and DMX** Protocols.**

During his career life, Dr. Petrus held significant positions and dedication as the **Executive Director, Senior Geoscience Advisor, Exploration Manager, Project Manager, Manager, Chief Geologist, Chief of Exploration, Chief of Geoscience, Senior Geosciences Engineer, Senior Explorationist, Senior Geologist, Geologist, Senior Geoscientist, Geomodeller, Geoscientist, CPR Editor, Resources Auditor, Project Leader, Technical Leader, Team Leader, Scientific Researcher and Senior Instructor/Trainer** from various international companies and universities such as the **Dragon Oil Holding Plc., ENOC, MENA, ENI Group of Companies, Ocre Geoscience Services (OGS), Burren RPL, Ministry of Oil-Iraq, Eni Corporate University, Stanford University, European Universities, European Research Institutes, NorskHydro Oil Company, Oil E&P Companies**, just to name a few.

Dr. Petrus has a **PhD in Geology and Tectonophysics** and **Master's and Bachelor's degree in Earth Sciences** from the **Utrecht University, The Netherlands**. Further, he is a **Certified Instructor/Trainer, a Certified Trainer/Assessor/Internal Verifier** by the **Institute of Leadership & Management (ILM)**, a **Secretary and Treasurer of Board of Directors of Multicultural Centre, Association Steunfonds SSH/SSR and Founding Member of Sfera Association**. He has further published several scientific publications, journals, research papers and books and delivered numerous trainings, workshops, courses, seminars and conferences internationally.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Howard Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the workshop for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: Monday, 27th of July 2026

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Introduction to the Global Energy Industry Structure of the Global Energy Sector • Primary Energy Sources & Their Applications • The Oil, Gas & Renewable Energy Value Chains • Key Energy Market Participants
0930 – 0945	Break
0945 – 1030	Global Energy Supply & Demand Fundamentals Global Energy Consumption Patterns • Major Producing & Consuming Countries • Factors Affecting Supply & Demand • Long-Term Energy Demand Forecasts
1030 – 1130	Oil & Gas Industry Value Chain Upstream Exploration & Production • Midstream Transportation & Storage • Downstream Refining & Petrochemicals • Integration Across the Value Chain
1130 – 1215	Major Energy Resources Conventional Oil & Gas Resources • Unconventional Hydrocarbon Resources • LNG & Natural Gas Markets • Emerging Low-Carbon Energy Sources

1215 – 1230	Break
1230 – 1330	ADNOC's Role in the Global Energy Market ADNOC's Integrated Business Model • Strategic Business Segments • Research & Technology Initiatives • Contribution to UAE Energy Strategy
1330 – 1420	Energy Industry Terminology & Key Performance Indicators Common Industry Terminology • Production & Reserve Metrics • Market Performance Indicators • Technology & Innovation Metrics
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day One

Day 2: Tuesday, 28th of July 2026

0730 – 0830	Global Oil Markets Major Crude Oil Benchmarks • Global Trading Hubs • Supply Chain Dynamics • Market Participants
0830 – 0930	Natural Gas & LNG Markets Regional Gas Markets • LNG Supply Chain • Pricing Mechanisms • Future Market Growth
0930 – 0945	Break
0945 – 1100	Energy Pricing Fundamentals Factors Influencing Oil Prices • Gas Pricing Models • Supply & Demand Balance • Market Volatility Drivers
1100 – 1215	OPEC & International Energy Organizations Role of OPEC • OPEC+ Cooperation • International Energy Agency (IEA) • Energy Information Administration (EIA)
1215 – 1230	Break
1230 – 1330	Geopolitical Influences on Energy Markets Regional Conflicts & Energy Supply • Trade Policies & Sanctions • Maritime Transportation Risks • Energy Security Considerations
1330 – 1420	Economic Drivers of Energy Markets GDP Growth & Energy Demand • Inflation & Commodity Prices • Currency Exchange Effects • Investment Cycles
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Two

Day 3: Wednesday, 29th of July 2026

0730 – 0830	The Global Energy Transition Drivers of Energy Transition • Net Zero Objectives • Decarbonization Pathways • Future Energy Mix
0830 – 0930	Renewable Energy Technologies Solar Energy • Wind Energy • Hydropower & Geothermal • Renewable Integration Challenges
0930 – 0945	Break
0945 – 1100	Carbon Management Technologies Carbon Capture, Utilization & Storage (CCUS) • Hydrogen Technologies • Methane Emissions Reduction • Carbon Footprint Measurement



1100 – 1215	Digital Transformation in Energy Artificial Intelligence Applications • Industrial Internet of Things (IIoT) • Digital Twins • Advanced Data Analytics
1215 – 1230	Break
1230 – 1330	Innovation in Oil & Gas Advanced Drilling Technologies • Smart Reservoir Management • Robotics & Automation • Research & Development Trends
1330 – 1420	ADNOC's Innovation & Sustainability Initiatives Digital Transformation Programs • Low-Carbon Projects • AI & Advanced Analytics • Future Technology Roadmap
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Three

Day 4: Thursday, 30th of July 2026

0730 – 0830	Current Global Energy Trends Shifting Energy Demand • Investment Trends • Regional Market Growth • Energy Diversification
0830 – 0930	Future Oil & Gas Outlook Long-Term Production Forecasts • Future Demand Scenarios • Market Opportunities • Industry Challenges
0930 – 0945	Break
0945 – 1100	ESG & Sustainability in the Energy Industry Environmental Considerations • Social Responsibility • Corporate Governance • Sustainable Business Practices
1100 – 1215	Energy Policies & Regulatory Developments International Climate Agreements • Regional Energy Policies • Carbon Regulations • Industry Compliance
1215 – 1230	Break
1230 – 1330	Investment & Business Strategy Capital Investment Decisions • Portfolio Diversification • Risk Assessment • Technology Investment
1330 – 1420	Competitive Landscape in the Energy Industry National Oil Companies (NOCs) • International Oil Companies (IOCs) • Emerging Energy Companies • Strategic Partnerships
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Four

Day 5: Friday, 31st of July 2026

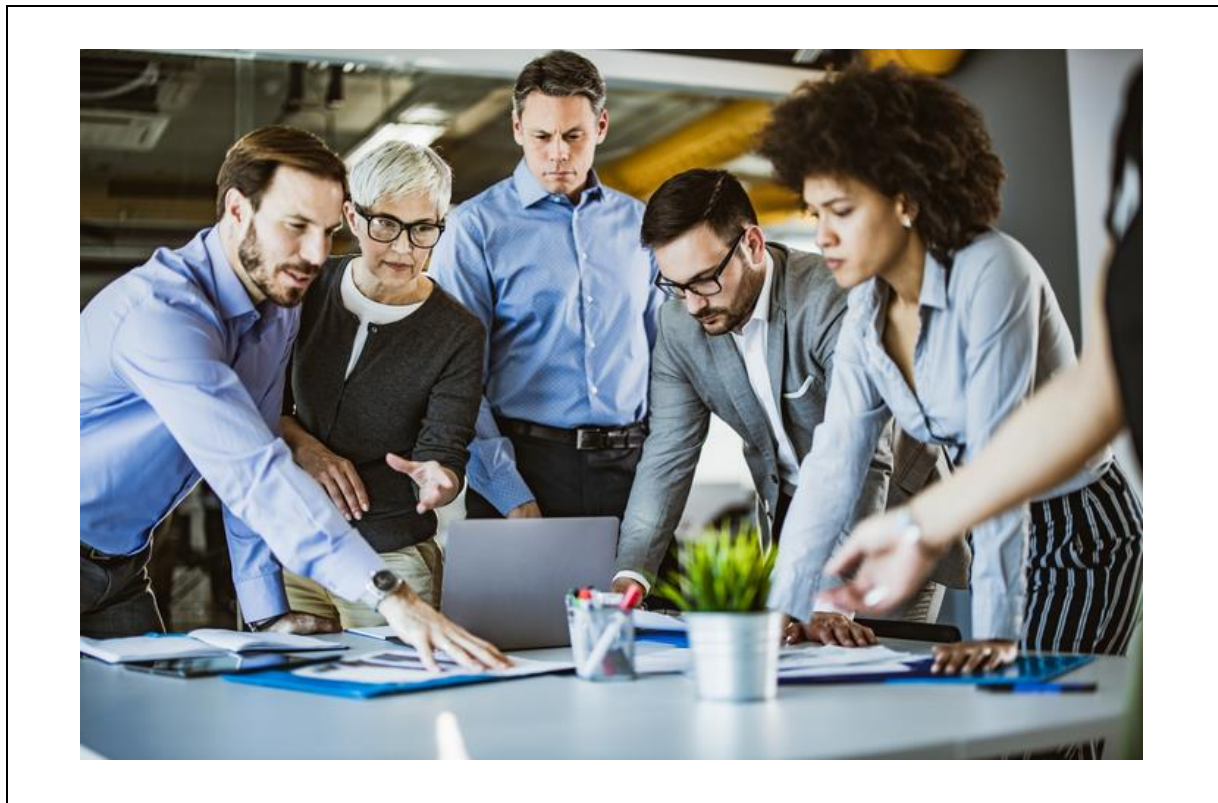
0730 – 0830	Future Energy Scenarios Global Energy Outlook Reports • Alternative Market Scenarios • Technology Adoption Trends • Long-Term Industry Forecasts
0830 – 0930	Research & Technology Opportunities Emerging Research Areas • Advanced Materials • Energy Storage Technologies • Collaborative Innovation
0930 – 0945	Break



0945 – 1100	Risk Management in Energy Markets <i>Market Risks • Operational Risks • Technology Risks • Climate-Related Risks</i>
1100 – 1215	Strategic Decision-Making in the Energy Industry <i>Market Intelligence • Data-Driven Decisions • Strategic Planning • Business Agility</i>
1215 – 1230	<i>Break</i>
1230 – 1315	Case Studies in Global Energy Markets <i>Oil Price Volatility • LNG Market Expansion • Successful Energy Transition Projects • ADNOC Strategic Initiatives</i>
1315 – 1345	Course Review & Future Outlook <i>Review of Key Industry Concepts • Emerging Market Opportunities • Future Skills for Research & Technology Professionals • Action Planning & Knowledge Assessment</i>
1345 – 1400	Course Conclusion <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course</i>
1400 – 1415	POST-TEST
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

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