In the presence of

H.E. Shaikh Khalid bin Abdulla Al Khalifa
Deputy Prime Minister
Kingdom of Bahrain

الملتقى الهندسي الخليجي
26
GULF ENGINEERING FORUM

26th GULF ENGINEERING FORUM

REGISTER NOW

ENERGY MANAGEMENT

Conference & Exhibition 2025

"Energy Transition Challenges"

11 - 13 February 2025

GEUFORUM.COM

Organizers

الاتحاد الهندسي الخليجي
GULF ENGINEERING UNION

جمعية البحرين للمهندسين
BAHRAIN SOCIETY OF ENGINEERS

Official Sponsor

EWA
هيئة الكهرباء والماء
Electricity & Water Authority

Technical Supporter

SPE
Bahrain Section

Supporting Organizations

WFEO/FMOI

اتحاد المهندسين العرب
Federation of Arab Engineers

Introduction

As we move forward into the Energy transition, we are faced with a number of oncerns regarding the safety and sustainability of our energy sources. Fossil fuels continue to dominate the world's energy market, leaving us lacking in low-carbon, safe, and cheap alternatives at a large scale. This creates two major energy problems: the first being the direct link between energy access and greenhouse gas emissions, which is a crisis that has gained significant public attention. The second energy problem, however, is just as pressing. Hundreds of millions of people still lack access to sufficient energy, which is leading to both environmental and social consequences. As we work toward climate action in this decisive decade, it is important that we unite on bold, practical, and ambitious solutions to tackle these challenges. In regions such as ours, which experience extreme heat and scarce water resources, climate change is a particularly urgent challenge that must be addressed. Our region has a long history of leadership in energy and sustainability sectors, providing diversified economic opportunities and practical solutions for global problems. It is through events like this prestigious conference that we hope to mitigate the adverse effects of climatic change on nature, land use, and ocean resources.

While climate change remains at the forefront of public discussion on energy, it is the production of energy itself that is responsible for more than 80% of global greenhouse gas emissions. This means that we must take a holistic approach that addresses not only our energy sources, but also our land use and ecosystem management. It is also crucial that we engage in global partnerships to drive investments, technologies, and policies that can collectively achieve net-zero, nature-positive, and resilient systems. With the recent adoption of the 30x30 biodiversity goal, we have an enhanced opportunity to strengthen policy and investment around nature and ecosystem-based solutions, while also sustaining natural carbon sinks and biodiversity hotspots in our region. We anticipate an impressive lineup of speakers who will address various aspects of the challenges facing the energy transition. From policymakers to leading industry players and academics, our speakers will bring a wealth of experience and insights to the table. They will share their perspectives on how to navigate the complexities of the energy transition and discuss innovative solutions that can accelerate the shift to sustainable energy.

We invite you to join us in the Kingdom of Bahrain for this prestigious event. Together, we can drive pathways towards a more realistic energy transition better future and a better world.

Dr. Raida Al-Alawi
Chiarperson of the Forum
President
Bahrain Society of Engineers

On behalf of the Bahrain Society of Engineers and the Gulf Engineering Union, I am pleased to welcome you to the 26th Gulf Engineering Forum, which is honored by the presence of His Excellency Sheikh Khalid bin Abdullah Al Khalifa, Deputy Prime Minister. This forum is highlighted by the Energy Management Conference and Exhibition, which focuses on the important topic of "Energy transition challenges"

This conference focuses on the fundamental transformations facing the GCC countries in the energy sector. We are fully aware that fossil fuels have been a major driver of our economic growth, but our pursuit of a sustainable future requires a transition to environmentally friendly renewable energy sources. This energy transition journey requires us to find the right balance between energy security and sustainability. We realize that this balance represents a shared responsibility that falls on all of us. We must strive to promote sustainable economic growth, adhere to our environmental responsibility, while ensuring reliable and safe energy supplies. To navigate the complexities of the energy transition, we must actively pursue innovative solutions and collaborative efforts in adopting renewable sources, developing efficient infrastructure, and ensuring a smooth industrial transition.

The 26th Gulf Engineering Forum represents a vital platform for knowledge exchange, cooperation and innovation. It brings together an elite group of engineers, industry leaders and policy makers from the Gulf region and beyond, to engage in a serious dialogue about the complex challenges and broad opportunities facing us on our journey towards sustainable energy.

Eng. A. Majeed Al Qassab
Conference Chairman

I am delighted to welcome each of you to the upcoming Energy Management Conference & EXPO, themed “Energy Transition Challenges,” scheduled for 11 – 13 February 2025. This remarkable event, graced by the esteemed presence of H.E. Shaikh Khalid bin Abdulla Al Khalifa, Deputy Prime Minister of the Kingdom of Bahrain, is dedicated to addressing the pressing issues of global warming and the complexities surrounding the energy transition.

The global energy landscape is currently grappling with two significant challenges: the prevalence of greenhouse gas emissions from traditional energy production and the lack of access to energy for millions worldwide. To tackle these challenges head-on, energy transition initiatives are pushing for a shift towards sustainable and renewable energy sources, while effectively managing hydrocarbons - the cornerstone of our current energy framework.

The upcoming conference will explore essential aspects of managing hydrocarbons and highlight the significance of implementing effective energy management practices. This includes reducing usage and embracing cleaner technologies to minimize environmental impact while achieving the Sustainable Development Goals (SDGs) and operational efficiency. Ensuring long-term sustainability in energy management is paramount, requiring a delicate balance between meeting global energy demands and mitigating environmental concerns and legislations. Consumer expectations play a crucial role in shaping energy transition strategies, demanding minimal disruption to daily lives and energy supplies. Addressing these expectations and aligning them with a realistic transition plan is imperative for success. In summary, responsible management of hydrocarbons is indispensable for forging a cleaner, more sustainable energy landscape. The transition plan must navigate the fine line between aspiration and pragmatism, emphasizing the urgency for a well-defined affordable strategy to realize a sustainable future energy.

Advisory Board

ADVISORY BOARD CHAIR

Faisal Mohamed Al Mahroos
Chairman, Board of Directors
Bapco Upstream

Abdulmohsen Almajnouni
Secretary General
Saudi Council of Engineers

Adnan A.Razaq Al Mahmood
Deputy Chief Executive Officer
Support (DCEO-S), GPIC

Abdul-Rahman Al-Ghabban
President
Saudi Arabian Bechtel Company

Dr. Hiba Nayif Harara
Vice President
Electricity & Water Procurement

Basema Al Mahroos
Chieft Executive Officer
Bapco Tazweed

Hashim Al Rifaie
Consultant
Kuwait

Amin Sultan
Chief Power Officer
Alba (Aluminium Bahrain)

Ibrahim Moussa
Managing Director, SLB
Saudi Arabia and Bahrain

Dr Ahmad AlQattan
Market Intelligence
Kuwait Petroleum International

Steering Committee

CONFERENCE CHAIRMAN

Abdul Majeed Al Qassab
Governance Committee Chair, WFEO
Bahrain Society of Engineers

Abdul Nabi Al Sabah	BSE Vice Chair
Fareed Bushehri	BSE
Huda Sultan	BSE
Jameel Al Alawi	BSE
Heyam Al Maskati	BSE
Jaffar Mohammad	BSE
Sumaya Al Radhi	SPE

LOGISTICS COMMITTEE

Committee Chair

Jameel Al Alawi
Ex - Board Member, BSE

Habib Al Jaboori	BSE
Ali Al Qattan	BSE
Shaker Abdulaziz	BSE
Sara Al Majed	BSE
Muhammad Mubarak	BSE

SPONSORSHIP & EXHIBITION COMMITTEE

Committee Chair

Heyam Al Maskati
Board Secretary, BSE

Fareed Bushehri	BSE
Ibrahim Al Burshaid	BSE
Owf Al-Mulla	SPE

PUBLICITY COMMITTEE

Committee Chair

Jaffar Mohammad
Director of Media, BSE

Hawra Abdulla Ahmed	EWA Bahrain
Ali Abbas Al Hadada	EWA Bahrain
Jenan Al Sadeq	EWA Bahrain
Shaikha Al Khalasi	BSE
Sara Al Majed	BSE
Hussain Ismail	BSE

TECHNICAL COMMITTEE

Committee Chair

Sumaya Al Radhi
Country Manager, SLB
Chair, SPE Bahrain

Prof. Isa Qamber	IEEE Bahrain
Dr. Abeer Shaheen	Bapco Energies
Jamal Ali Alshawoosh	GPIC
Dr. Mohamed Bin Shams	University of Bahrain
Isa Janahi	BSE
Bader Salmeen	BSE
Layla Janahi	Bapco Energies
Rashid Asha'ali	SOE UAE
Abdulla Althawadi	Bapco Upstream
Faisal Raza Ahmed	SLB KSA
Mohammed Bin Hashil Al Riyam	OSE
Ali Nematalla Al Nemah	EWA Bahrain
Eskander Abdulnabi	ALBA
Qahtan Mohammed	MEWA, Bahrain
Zeyad Hammooda	SLB KSA
Sayed Aqeel Alwai Shubber	EWA Bahrain
Mohammed AbdulAziz Al Atawi	EWA Bahrain
Dr. Abdulaziz Al Anizi	SCE

Keynote **Speakers**

Dr. Kamel Ben Naceur
Chairman - DAMORPHE
CEO - Nomadia Energy,
United Arab Emirates

REALISTIC DECARBONIZATION OPTIONS FOR THE ENERGY SECTOR

Kamel Ben-Naceur is the CEO for Nomadia Energy Consulting, based in Abu Dhabi, and the Chairman of Houston-based DAMORPHE. He was previously the 2022 President of the SPE (Society of Petrolem Engineers), and the Chief Economist for Abu Dhabi National Oil Company (ADNOC). Prior to that, he was the Director for Sustainability, Technology and Outlooks at the International Energy Agency. In 2014, he was appointed Tunisia's Minister for Industry, Energy and Mines. From 1981 to 2013, he held key positions with Schlumberger, including Chief Economist and Technology President. His assignments with Schlumberger included France, USA, UK, Algeria, Venezuela, UAE, Egypt, Russia and Brazil. He has more than 40 years of experience and knowledge in the energy and industry sectors around the world in both public and private service and is the (co-)author of 19 books and over 170 publications. He has received several SPE/AIME Awards, including the Distinguished Member, the Distinguished Service, AIME Charles Rand Gold Memorial, and the Sustainability and Stewardship in the Oil and Gas Industry Award, and he was a SPE Distinguished Lecturer. He is a graduate from Ecole Polytechnique (Paris) and Ecole Normale Superieure (Paris).

Prof. Mohan Kelkar
Professor,
Petroleum Engineering,
University of Tulsa

ENERGY TRANSITION: LONG ROAD AHEAD

Mohan Kelkar received his BS in Chemical Engineering from the University of Bombay, India and MS in Petroleum Engineering and PhD in Chemical Engineering from University of Pittsburgh. He is currently Chairman and Professor of Petroleum Engineering at the University of Tulsa. He as published more than 70 refereed papers and has made more than 250 technical presentations at various organizations and meetings. He has co-authored three books. He has received numerous awards for his teaching and technical contributions. He received "Outstanding Teacher Award" from the University of Tulsa, "Outstanding International Faculty Award" from the Society of Petroleum Engineers (SPE), "Distinguished Service Award" for his service to SPE. He has been Distinguished Member and Distinguished Speaker for SPE.

Mr. Hesham Zubari
Chief AI and innovation Officer
Dragon Oil

SURVIVING THE UNFOLDING ENERGY LANDSCAPE

Mr. Zubari graduated in Petroleum Engineering from the University of Texas at Austin in 1986 and a certified CTO and an alumnus of Cambridge. With 38 years in the oil, gas, and energy sectors, his career commenced as a reservoir simulation engineer at Bahrain Petroleum Company in 1986, leading to positions such as Deputy CEO at Tatweer Petroleum (2013) and Senior Advisor at the Ministry of Oil (2017). He served on the SPE-international BOD as the MENA Regional Director(2022-24), currently chairing the SPE Middle East Advisory Board Council responsible for managing SPE focus topics and events in the region. His experience includes working with top CEOs and ministers in Bahrain, authoring and co-authoring over 15 technical papers on innovation and the management of mature assets, and chairing major SPE and AAPG events. Zubari's insights have been highlighted in reputable publications such as Forbes and MEES, underscoring his influence on the future of the energy industry. He is the recipient of the 2021 SPE Regional Award for his contributions to the oil and gas community. In recognition for his contributions to the scientific community, Hesham was awarded the 2024 IMC Honorary Doctorate Leadership Excellence Award by the International Maritime Club (IMC) in association with the European International University. He was recently featured as one of the top 10 influential leaders shaping Arab's oil and energy sector in 2024 by The Arabian World Magazine. Hesham is the Program Chair for the 2025 GOTECH to be held in Dubai in April 2025.

Technical Program - DAY ONE

11 FEBRUARY 2025

09:00 -09:15	Exhibition Opening
09:20 -09:25	Welcoming Speech **Dr. Raida Al Alawi** Chairperson of the Forum President of Bahrain Society of Engineers
09:25 -09:30	Official Sponsor Speech **H.E. Kamal Bin Ahmed Mohamed Ahmed** President of Electricity and Water Authority
09:30 -09:35	Gulf Engineering Union Speech **Mohamed Ali Alkhozaae** Secretary General
09:35 -09:40	Organization of Arab Petroleum Exporting Countries (OAPEC) Speech **H.E. Jamal Essa Al-Loughani** Secretary General
09:40 -09:50	Award Ceremony
09:50 - 10:35	Coffee and Networking Break
10:35 - 11:05	**KEYNOTE SPEECH** **Dr. Kamel Ben Naceur** Chairman - DAMORPHE CEO - Nomadia Energy United Arab Emirates
11:05 - 12:05	Panel Topic: **CLEAN ENERGY CHALLENGES IN GCC: AFFORDABILITY, AVAILABILITY AND SUSTAINABILITY** **Dr. Hiba Harara** Vice President, Electricity & Water Procurement, Bahrain **Amin Sultan** Chief Power Officer, ALBA, Bahrain **Dr. Ahmad AlQattan** Manager Performance & Development, Kuwait Petroleum, Netherland **Muneef Alshameeri** Coordinator Energy - Utilities, Offsites & Energy, Bapco Refining, Bahrain Moderator: **Prof. Abdulwahab Al Musallam** Department of Chemical Engineering, Kuwait University, Kuwait

12:05 - 12:30	Coffee and Networking Break	
	AL DANA 1	**AL DANA 2**
	Track 1: **Energy Transition Strategy**	Track 2 **Energy Transition Regulation**
12:35 - 13:00	Oman's Path to Net Zero: Clean Energy Strategy, Policies, and Decarbonization Initiatives **Abdullah Ali Salim Al-Busaidi** Ministry of Transport, Communcations and Information Technology, Oman	Regulatory Pathways Supporting The Energy Transistion **Nicholas Carter** Electricity and Water Authority, Bahrain
13:05 - 13:30	Kuwait's Energy Transformation: Strategic Initiatives and Overcoming the Barriers **Dr. Altaf Salman Albaho** Ministry of Oil, Kuwait	Towards a Pro-Energy Transition International Trade Rules **Dr. Jameel Al Alawi** Al Alawi & Associates, Bahrain
13:30 - 14:30	Lunch Break	
	AL DANA 1	**AL DANA 2**
	Track 3 **Energy Technology and Innovations**	Track 4 **Energy Transition: Opportunities and Barriers**
14:35 - 15:00	Nuclear Fusion: The Ultimate Clean and Renewable Energy Source **Prof. Shawqi Al Dallal** Ahlia University, Bahrain	Hydrogen Fuel Cells: Current Status, Major Challenges, and Future Prospects **Prof. Sayyad Zahid Qamar** Sultan Qaboos University, Oman
15:05 - 15:30	An Alternate Integration of a Wind Driven DC machine With the Power Grid **Dr. Maamar Taleb** University of Bahrain, Bahrain	Transitioning to Green Hydrogen: Small Power Generation Units and Environmental Sustainability **Faraj Abdulmohsin Alqahtani** Ministry of Municipalities and Housing Saudi Arabia
15:35 - 16:00	Global Energy Alternatives and the Adopted Artificial Intelligence Technology **Prof. Dr. Issam Mohammed Ali Aljubury** University of Baghdad, Iraq	Energy Transition Challenges and Imperatives in an age of Slowbalization **Ahmed Ijaz** Ericsson, Saudi Arabia
16:05 - 16:30	Impacts of PV Systems Integration on Petroleum Development Oman (PDO) **Faiza Mohamed Said AlHarthy** Petroleum Development Oman Oman	Decarbonizing HVAC Systems through Energy Optimization and Optimal High Efficiency Unit Selection in Oman **Shahid Ali Khan** Military Technology College, Oman
	End of Day One	

Technical Program - DAY TWO

12 FEBRUARY 2025

09:00 - 09:10	Opening Remarks	
09:10 - 09:40	**KEYNOTE SPEECH** **Prof. Mohan Kelkar** Professor - Petroleum Engineering University of Tulsa	
09:40 - 10:10	**KEYNOTE SPEECH** **Hesham Zubari** Chief AI and innovation Officer Dragon Oil	
10:10 - 10:40	Coffee and Networking Break	
	AL DANA 1	**AL DANA 2**
	Track 5 **Energy Transition Projects**	Track 6 **Energy Efficiency**
10:45 - 11:10	Alba Power Production Journey to Sustain Competitive Advantage **Khaled Mersal** Alba, Bahrain	Energy Technologies And Innovations Innovations In Energy Efficiency And Their Potential To Reduce Energy Consumption (An Overview of Energy-Efficient And Low-Global-Warming-Potential Technologies In ACs) **Hasan Ali Mubarak** Supreme Council For Environment, Bahrain
11:15 - 11:40	Sustainability Purpose and Strategy - Sohar Port & Freezone **Al Mukhtar Saleh Al Saifi** Sohar Port & Freezone, Oman	Revolutionizing Utilities with Private LTE: A Case Study of Bahrain's Electricity Distribution Automation **Mahmood Abdul Nabi Khalaf** Electricity & Water Authority (EWA), Bahrain
11:45 - 12:10	Exploring LCO2 import terminals to connect to sequestration in the Arabian Gulf **Caroline Metcalf** Bechtel Limited, United Kingdom	The Impact of Renewable Energy in mitigating of the Climate Change Effects: The Sultanate of Oman's Net Zero Strategy **Prof. Khalifa Al-Jabri** Sultan Qaboos University, Oman
12:10 - 12:25	Coffee and Networking Break	

	Track 7 **Energy Transition Projects**	Track 8 **Energy Efficiency**
12:25 - 12:50	Optimizing Solar and Wind Energy Integration for Sustainable Water Desalination in Bahrain **Kamal M. Sassi Almuteer** University of Bahrain, Bahrain	GPIC Environment Management **Reem Al Bastaki** GPIC, Bahrain
12:55 - 13:20	Energy Consumption in Municipal Water in Bahrain **Rehab Abdulmahdi Mohsin Hasan** Ministry of Works, Bahrain	Sustainable Energy Systems For Energy Transition: A Techno-Economic Viability Assessment **Dr. Muhammad Asif** KFUPM, Saudi Arabia
13:25 - 13:50	Upstream Emission Reduction using Nature-Based Solution **Younis Al Rawahi** Bauer Nimr, Oman	Nanofluid as Heat Transfer Solutions for Enhancing Sustainable Technologies **Dr. Zafar Said** University of Sharjah, United Arab Emirates
13:55 - 14:20	The Carbon Neutral Alternatives To Revive Safety And Integrity Of Aging Oil & Gas Wells **Muhammad Abou Amad** Adnoc Offshore, United Arab Emirates	Safe Depressurisation of Dense Phase CO2 Pipework. **Simon Clarke** Saudi Aramco, Saudi Arabia
14:20 Onwards	Lunch Break & End of Day Sessions	
17:00 - 19:00	Social Program	
19:00 Onwards	Gala Dinner	

Technical Program - DAY THREE

13 FEBRUARY 2025

09:00 - 09:10	Opening Remarks
09:10 - 10:10	Panel Topic: **COLLABORATION OF ENGINEERING DISCIPLINES TOWARDS NET-ZERO** **Dr. Kamel Ben Naceur** Chairman - DAMORPHE, CEO - Nomadia Energy, United Arab Emirates **Prof. Mohan Kelkar** Professor, Petroleum Engineering, University of Tulsa, United States **Faisal Baksh** Senior Principal Solution Consultant, Aspen Technology

	Martin Manuhwa Chairman, Capacity Building Committee, World Federation of Engineering Organizations Moderator: **Dr. Jameel Al Alawi** Al Alawi & Associates, Bahrain	
10:10 - 10:40	Coffee and Networking Break	
	AL DANA 1	**AL DANA 2**
	Track 9 **Challenges for e-Mobility**	Track 10 **Applications of Renewable Energy**
10:45 - 11:10	Autonomous POD System for Sustainable Smart Cities: A Case Study of MISK City, Saudi Arabia **Ali Talal Alkhars** King Fahd University of Petroleum and Minerals, Saudi Arabia	Energy Modelling as a Key Tool for Reducing Energy Consumption in Buildings **Haitham Al Rasbi** Aafaq Engineering Consultancy, Oman
11:15 - 11:40	Achievements and Innovations in Oman's Energy Transition: Decarbonizing Transportation and Maritime Sectors **Juhina Alshamsi** Ministry of Transport, Communcations and Information Technology, Oman	Model for PPA Solar Energy Project Coordination in The Kingdom of Bahrain **Yusuf AlAmeen** Bahrain
11:45 - 12:10	Investigating the impact of Electric vehicles integration on Bahrain's distribution network **Ebrahim Adel Alsaleh** Electricity & Water Authority, Bahrain	Revitalization of Endorsed Renewables' Targets Through Investigating the Feasibility of Utilizing PV Systems in the Residential Sector of the Kingdom of Bahrain **Sara Ali** Bahrain
12:15 - 12:40	Environment and Sustainability: Integrating Innovative Practices for a Sustainable Future **Musadik Mubarak** Al-Ayuni Investment & Contracting Co. Saudi Arabia	Investigating Motivational Factors Affecting Residents' Decision of Shifting Towards Solar Energy Sources in Bahrain **Abdulla Madan** Electricity and Water Authority Bahrain
12:45 - 13:10	Host Assessment of GIS & AMI/MDM Integration-Based Simulation Tools & RTDS for Distributed Renewables & EV Chargers by Electric Utilities: A Case Study of EWA, Bahrain **Ali Salman Ali Salman** Electricity & Water Authority (EWA) Bahrain	Environmental & Social Impact Assessment (ESIA) of Renewable Energy Projects **Rehan Ahmed** Environmental & Sustainability Consultant Bahrain
13:10 - 14:10	Raffle, Conference Closing & Lunch	

Pre-Conference Workshops

1 Energy Transition Workshop

Workshop Overview

This four-hour workshop provides an overview of current status of climate change and energy transition. The word "energy transition" implies that there is a transition from one energy source to another energy source. Historically, we have had energy transitions in the past and they took decades to mature. Because of climate change and its impact on the earth, United Nations is pushing for net zero transition by 2050 – which effectively eliminates fossil fuels by 2050. Is this a realistic goal? Where are the opportunities and what are the challenges in achieving this goal? The workshop discusses the importance of fossil fuels in current civilization and the alternatives that can be used to sustain the civilization while reducing the use of fossil fuels. We will also discuss the feasibility of CO2 capture and storage and consider the use of hydrogen as an energy carrier.

Objectives

Upon successful completion of this workshop, participants will be able to:

- Understand climate change, and its physical as well as economic impacts
- The benefits of fossil fuels and why they are so dominant in providing energy in the world today
- Usage of energy in developing vs. developed countries
- What is energy transition and how realistic it is to substitute one energy source with another energy source
- Principles of CO2 capture, transportation and storage
- Use and feasibility of intermittent storage and use of hydrogen as energy carrier
- Fundamentals of wind, solar and geo-thermal energies

Administrative Information

Workshop Date	:	10 February 2025
Timing	:	09:00 - 13:00
Course Fees	:	BD 100 / US$270

Who Should Attend

Anyone who is interested in how energy is used and how feasible it is to go from one type of energy to another source of energy

Training Methodology

This is a short workshop and it will comprise of presentations and class discussion

About the Instructor

Professor Mohan Kelkar is currently Professor and Chairman of McDougall School of Petroleum Engineering at the University of Tulsa. He is author or co-author of more than 70 refereed publications and has made more than 250 technical presentations. He has authored or co-authored three books in various petroleum engineering disciplines. His current research interest is understanding energy transition, and role of fossil fuels in transforming the world. He is recipient of numerous awards including SPE (Society of Petroleum Engineering) Distinguished Speaker, Distinguished Member, Outstanding Faculty, Distinguished Service Award, Outstanding Research Paper Award and Honorary Member.

2 Opportunities in a Carbon Circular Economy and a Just Energy Transition

Workshop Overview

This Workshop is designed to give participants an overview about the drivers for a Carbon Circular Economy and a Just Energy Transition. It highlights the potential energy pathways to a Net Zero Emissions future. The historic deal struck at COP28 in December 2023, relates to "transitioning away from fossil fuels in energy systems, in a just, orderly and equitable manner... so as to achieve net zero by 2050 in keeping with the science.". The agreement shows the various tracks that will allow us to maintain the objective of 1.5 (degrees Celsius) in accordance with the characteristics of every nation and in the context of sustainable development.

While oil and gas will represent a major part of the energy mix in the future, energy systems will include a significantly larger share of renewables, and low/zero carbon fuels in addition to different initiatives relating to the sustainability aspects such as leveraging carbon capture, utilization and storage to enable sustainable energy supply. Energy efficiency from asset operations and advanced technologies for emissions (and specially methane) reductions will play a key role in lowering carbon footprint, and form key pillars of the value chain to achieve a Carbon Circular Economy and a just transition, help to bring resilience for a sustainable future.

The Workshop will provide insights through regional and national case studies, focusing on opportunities identification, integration and management in areas such as CCUS, hydrogen/ammonia/methanol projects consideration, and deployment for effective end-to-end value creation.

Objectives

- Overview of national energy flows and systems / Sankey Diagrams
- Scenarios considered by main organizations: IEA, OPEC, EIA, bp, Shell, XOM, DNV, IPCC, Rystad Energy
- The sustainability drive: COP26, the IPCC AR6 report and the SDG's
- Scenarios and Decarbonization wedges: CCUS, Energy efficiency, Renewables, Zero-carbon fuels
- Energy efficiency: the first fuel
- Energy storage, the different shades of hydrogen with focus on blue, green and grey, transportation options – regional/national opportunities to develop a hydrogen economy
- The sector electrification of transport, industry and building

Administrative Information

Workshop Date	:	10 February 2025
Timing	:	09:00 - 13:00
Course Fees	:	BD 100 / US$270

About the Instructor

Kamel Ben-Naceur is the CEO for Nomadia Energy Consulting, based in Abu Dhabi, and the Chairman of Houston-based DAMORPHE. He was previously the 2022 President of the SPE (Society of Petroleum Engineers), and the Chief Economist for Abu Dhabi National Oil Company (ADNOC). Prior to that, he was the Director for Sustainability, Technology and Outlooks at the International Energy Agency. In 2014, he was appointed Tunisia's Minister for Industry, Energy and Mines. From 1981 to 2013, he held key positions with Schlumberger, including Chief Economist and Technology President. His assignments with Schlumberger included France, USA, UK, Algeria, Venezuela, UAE, Egypt, Russia and Brazil. He has more than 40 years of experience and knowledge in the energy and industry sectors around the world in both public and private service and is the (co-) author of 19 books and over 170 publications, as well as being granted several international patents. He has received several SPE/AIME Awards, including the Distinguished Member, the Distinguished Service, AIME Charles Rand Gold Memorial, and the Sustainability and Stewardship in the Oil and Gas Industry Award, and he was a SPE Distinguished Lecturer. He is a graduate from Ecole Polytechnique (Paris) and Ecole Normale Superieure (Paris).

Conference / Workshop Registration Fees

26th Gulf Engineering Forum

11 - 13 February, 2025 - Gulf Hotel, Kingdom of Bahrain

Conference Registration Fees	
Category	Full Registration
Delegate	BD 250 / USD 670
Speakers	FREE
Students	BD 60 / USD 160

*Students should provide proper identity

Please Note:

- Acceptable payment includes Bahraini Dinars /USD
- Above registration fee includes full Conference package

(Opening ceremony, Forum pack with proceedings etc. Attendance of all Forum Technical Sessions, Lunch on Forum Days, Refreshments during breaks)

Workshop Registration Fees (10 February 2025)			
No	Workshop Title	Date	Fees
1	Energy Transition Workshop	10 February 2025	BD 100 / USD 270
2	Opportunities in a Carbon Circular Economy and a Just Energy Transition	10 February 2025	BD 100 / USD 270

Method of Payment:

Payment by one of the following must be included with the Registration Form:

- Please send invoice to the organisation mentioned above (attach authorisation)
- Enclosed a cheque/banker's draft payable to Bahrain Society of Engineers for inside Bahrain only.
- Bank Transfer - National Bank of Bahrain,
  Swift Code - NBOBBHBM, IBAN No: BH47-NBOB-0000-0099-0659-91

Cancellation and Refunds

Cancellation must be received in writing to the Conference Secretariat. A cancellation fee of BHD 30 (USD 80)* will be charged for cancellation received before 30th January 2025. After this date no refund will be considered.

To register, please contact: conference.manager@bse.bh, rajesh@bse.bh

Bahrain Society of Engineers
P .O. Box 835, Manama, Bahrain, Tel: +973 17810733
E-mail: conference.manager@bse.bh

Sponsorship Benefits

Companies are invited to become official sponsors for the conference and exhibition. The table below describes the different sponsorship levels and their corresponding benefits. Sponsorship will allow companies to promote their products and services to Energy Management 2025 audience and provide the opportunity to interact with other attending professionals.

Please use the sponsorship form to submit your sponsorship application. Detailed information regarding sponsorship may be obtained from the sponsorship coordinator. Contact: Tel: +973 17810734 Email: conference.coordinator@bse.bh

Benefits	Diamond BD 15,000 USD 40,000	Platinum BD 10,000 USD 26,700	Gold BD 5000 USD 13,500	Silver BD 3500 USD 9,350
Company name and logo of appropriate sizes will be published in all the conference publicity materials.	✓	✓	✓	✓
Entitled for free exhibition stand space with stand fittings at the exhibition hall.	24 Sq.M	18 Sq.M	12 Sq.M	6 Sq.M
Delegates from the sponsoring company may attend the conference with full package free of charge.	6 Delegates	4 Delegates	2 Delegates	1 Delegate
Publicity materials will be included in the conference pack.	✓	✓	✓	✓
Company name and logo will be published in the conference web site which shall be connected to the sponsor's web site.	✓	✓	✓	✓
Advertisement shall be provided in the exhibition guide free of cost.	2 Full Pages	1 Full Page	Half Page	Half Page
Company will be recognized with a special plaque for sponsorship	✓	✓	✓	✓
Executive officer will be treated as VIPs during the opening ceremony.	✓	✓	✓	✓
Company logo will be displayed in the conference hall along with the conference banner.	Large ✓	Medium ✓	Small ✓	Small ✓
Company logo will be displayed in the conference lobby.	✓	✓	✓	✓

Sponsorship Form

26th Gulf Engineering Forum

11-13 February, 2025
Gulf Hotel, Kingdom of Bahrain

To co-sponsor the Conference & Exhibition, please complete this form and email it to conference.coordinator@bse.bh to the attention of The Conference Secretariat, Energy Management Conference 2025

☐	DIAMOND SPONSORS	BHD 15,000.00	USD 40,000
☐	PLATINUM SPONSORS	BHD 10,000.00	USD 26,700
☐	GOLD SPONSORS	BHD 5,000.00	USD 13,500
☐	SILVER SPONSORS	BHD 3,500.00	USD 9,350

VAT Added

Company Name:

Contact Person: Title:

Mailing Address:

City: Country: Postal Code:

Telephone: Fax: Email:

Signature: Date:

Company Seal

☐ Banker's draft/ Cheque payable to The Bahrain Society of Engineers

☐ By Bank Transfer - Bahrain Society of Engineers
A/c No. 99065991, National Bank of Bahrain,
Swift Code - NBOBBHBM,
IBAN No. BH47-NBOB-0000-0099-0659-91
VAT: 220000468700002

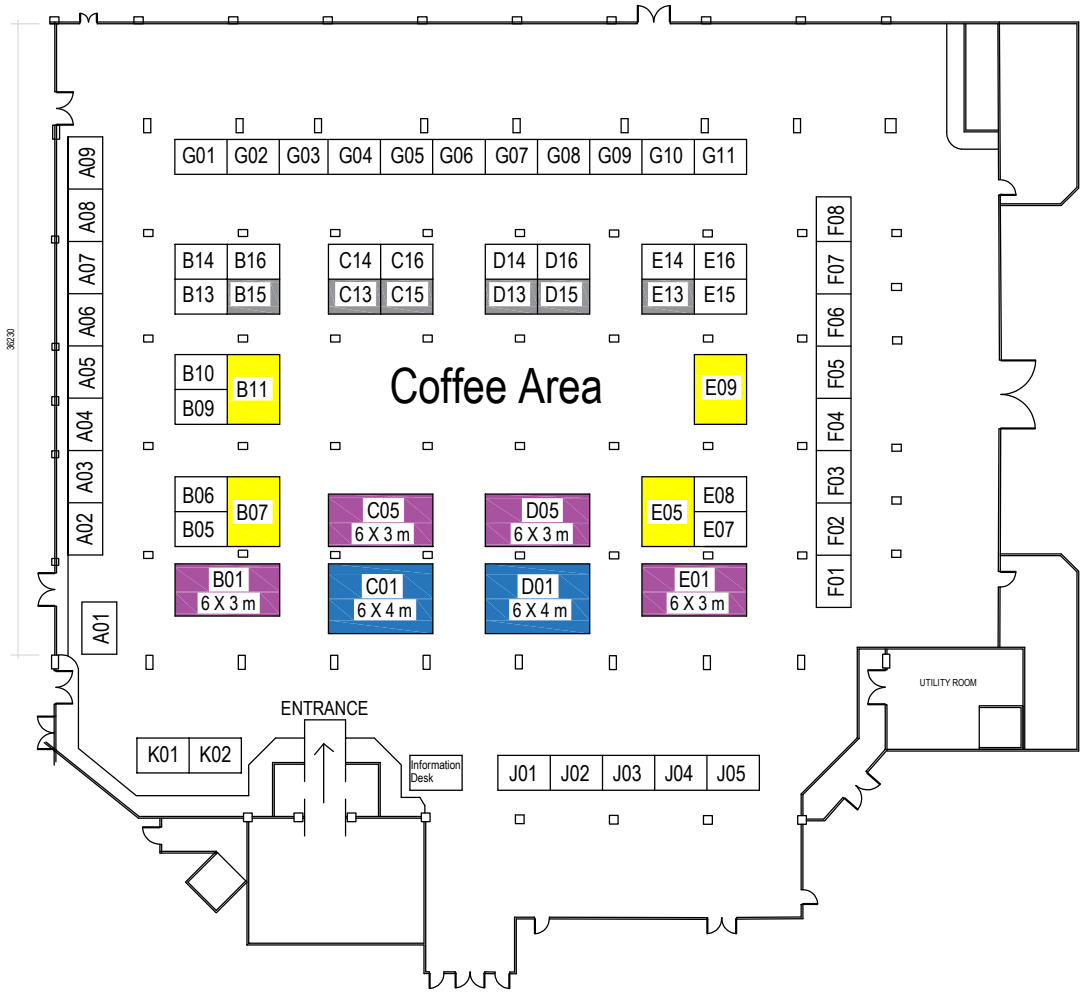
For more information contact:
The Conference Secretariat, Gulf Engineering Forum and Energy Management Conference & Exhibition 2025
Bahrain Society of Engineers, P O Box 835, Manama, Kingdom of Bahrain.
Tel: +973 17810734 Email: conference.coordinator@bse.bh

Please contact us for the electronic sponsorship form.

* The committee welcomes any suggestions and proposals to include new sponsorship categories to suit your requirement.

To fill in the eform please click the link: https://geuforum.com

Floor Plan


G01 G02 G03 G04 G05 G06 G07 G08 G09 G10 G11
A09 A08 A07 A06 A05 A04 A03 A02 A01
F08 F07 F06 F05 F04 F03 F02 F01
B14 B16 B13 B15
C14 C16 C13 C15
D14 D16 D13 D15
E14 E16 E13 E15
B10 B09 B11
Coffee Area
E09
B06 B05 B07
C05 6 X 3 m
D05 6 X 3 m
E05 E08 E07
B01 6 X 3 m
C01 6 X 4 m
D01 6 X 4 m
E01 6 X 3 m
UTILITY ROOM
ENTRANCE
K01 K02
Information Desk
J01 J02 J03 J04 J05

Exhibition Stand Booking Form

26th Gulf Engineering Forum

11-13 February, 2025
Gulf Hotel, Kingdom of Bahrain

To co-sponsor the Conference & Exhibition, please complete this form and email it to conference.coordinator@bse.bh to the attention of The Conference Secretariat, Energy Management Conference 2025

Company:

Name of Representative: Position:

Mailing Address: City: Country:

Postal Code: Tel: Mob: Fax: Email:

Products or services to be displayed:

Signature: Date

Select the desired stand options

☐ Option A (Shell Scheme Package)

Participation fees: BD 600 or US$1600 (per 6 sq.m)

No. of Stands Required ☐

Shell Scheme (Option A)
Participation includes:
White wall panels 2.4m height, Carpet Floor, 2 Tables with three chairs, two fluorescent lights, one 240 volt power socket.

Stand Nos. ☐ ☐ ☐ ☐

Select desired stands from the exhibition stand layout

VAT Added

☐ Option B (Stand Space Only (min 6 sq.m)

Participation fees: BD 80 or US$ 215 (per sq.m)

Stand Nos. ☐ ☐ ☐ ☐

Select desired stands from exhibition stand layout

Space Only (Option B)
Participation does not include any stand construction except one 13 AMP power supply. (It is not permitted to use wall partitions of adjacent stands).

VAT Added

Exhibition Information

A technical exhibition will be held in conjunction with the technical sessions within the conference venue. The exhibition is intended to provide an opportunity for equipment, materials and service providers to display and demonstrate their products and services related to Energy Management Technology.

Each exhibitor is entitled to the following benefits:

1) Exhibitors name will be published in the conference website.
2) A brief resume (8 - 10 lines) of each exhibitor will be included in the official exhibition guide, which will be circulated to all invited government officials, VIPs, visitors and participating delegates.
3) Wide publicity will be given in the Gulf region about the exhibition to attract regional and international industrial companies and Government officials to visit the exhibition booths during the conference period.
4) Each exhibitor is entitled to one full conference package (one person allowed to attend all the technical sessions free of charge during the 3 days conference period).

Note: All efforts will be made to accommodate your stand location request based on availability. Please forward your booking form to:
The Conference Secretariat, Gulf Engineering Forum and Energy Management Conference & Exhibition 2025
Bahrain Society of Engineers, P O Box 835, Manama, Kingdom of Bahrain.
Tel: +973 17810734 Email: conference.coordinator@bse.bh

To fill in the eform please click the link: https://geuforum.com

Conference Venue

The 3 days of the conference and the associated exhibition will take place at the Gulf International Convention Centre, Gulf Hotel, Kingdom of Bahrain, nested at the heart of the capital city, Manama.

This location is not only ideal for learning through conference participation and exhibitions, but also provides you easy access to all the shopping centres / malls if you are thinking of taking a gift to your beloved ones and is a few minutes' walk to many mesmerising restaurants if you are thinking to have a bite.

The Gulf Hotel is a five-star facility with 361 elegant rooms of gracious style waiting for you with uncompromising service, efficiency and facilities. The hotel is conveniently located with an easy access for transportation, just a 20 minutes' drive from the Bahrain International Airport.

The Kingdom of Bahrain, an archipelago of 33 islands, is rich in history and is situated in the Arabian Gulf, off the east coast of Saudi Arabia. The country offers a fascinating blend of Eastern and Western cultures. The capital, Manama is a modern cosmopolitan city, which boasts world class restaurants, shopping centres, and tourist attractions. The climate is hot in summer and mild in winter. From November to April the weather is very pleasant, with temperatures ranging from 15 to 24 degree centigrade. Arabic is the official language, but English is widely used by most businesses.

Official Sponsor

EWA
هيئة الكهرباء والماء
Electricity & Water Authority

Platinum Sponsor

GPIC

Gold Sponsor

Bapco energies

Silver Sponsors

slb

دار الخليج للهندسة
معماريون ومهندسون
GULF HOUSE ENGINEERING
Architects & Engineers