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

ENERGY MANAGEMENT

Conference & Exhibition 2025

"Energy Transition Challenges"

11 - 13 February 2025

GEUFORUM.COM

TECHNICAL PROGRAM & CONFERENCE GUIDE

Organizers

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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.

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OPENING PROGRAM

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

PLENARY SESSIONS
DAY ONE

11 FEBRUARY 2025

10:35 - 11:05 | Gulf Convention Center | Gulf Hotel

KEYNOTE SPEECH

Dr. Kamel Ben Naceur
Chairman - DAMORPHE
Chief Executive Officer - Nomadia Energy
United Arab Emirates

11:05 - 12:05 | Gulf Convention Center | Gulf Hotel

PANEL DISCUSSION

CLEAN ENERGY CHALLENGES IN GCC: AFFORDABILITY, AVAILABILITY AND SUSTAINABILITY

PANELISTS

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

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

PLENARY SESSIONS
DAY TWO

12 FEBRUARY 2025

KEYNOTE SPEECH

09:10 - 09:40
Gulf Convention Center | Gulf Hotel

Prof. Mohan Kelkar
Professor - Petroleum Engineering
University of Tulsa

09:40 - 10:10
Gulf Convention Center | Gulf Hotel

Hesham Zubari
Chief AI and innovation Officer
Dragon Oil

PLENARY SESSIONS
DAY THREE

13 FEBRUARY 2025

09:10 - 10:10 | Gulf Convention Center | Gulf Hotel

PANEL DISCUSSION

COLLABORATION OF ENGINEERING DISCIPLINES TOWARDS NET-ZERO

PANELISTS

Mohamed Al Shehab
Senior Vice President - Corporate Finance, Investment & Treasury
Bapco Energies

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

PRE-CONFERENCE WORKSHOPS

10 February 2025 | Time: 09:00 - 13:00

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.

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

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.

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).

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. Kamel Ben Naceur** Chairman - DAMORPHE, CEO - Nomadia Energy, United Arab Emirates **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**
	Track Chair: **Dr. Nahla Al Qassim**	Track Chair: **Abdulla Janahi**
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**
	Track Chair: **Prof. Isa Qamber**	Track Chair: **Fareed Bushehri**
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**
	Track Chair: **Nezar Al Shammasi**	Track Chair: **Dr. Hassan Al Alawi**
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**
	Track Chair: **Mohammed AbdulAziz Al Atawi**	Track Chair: **Faisal Ahmad Raza**
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** **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 **Mohamed Al Shehab** Senior Vice President - Corporate Finance, Investment & Treasury Bapco Energies Moderator: **Dr. Jameel Al Alawi**	
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**
	Track Chair: **Zeyad Hammooda**	Track Chair: **Raj Jhajharia**
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	Qatar Rail **Maryam Alsayeri** Qatar Society of Engineers Qatar
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	

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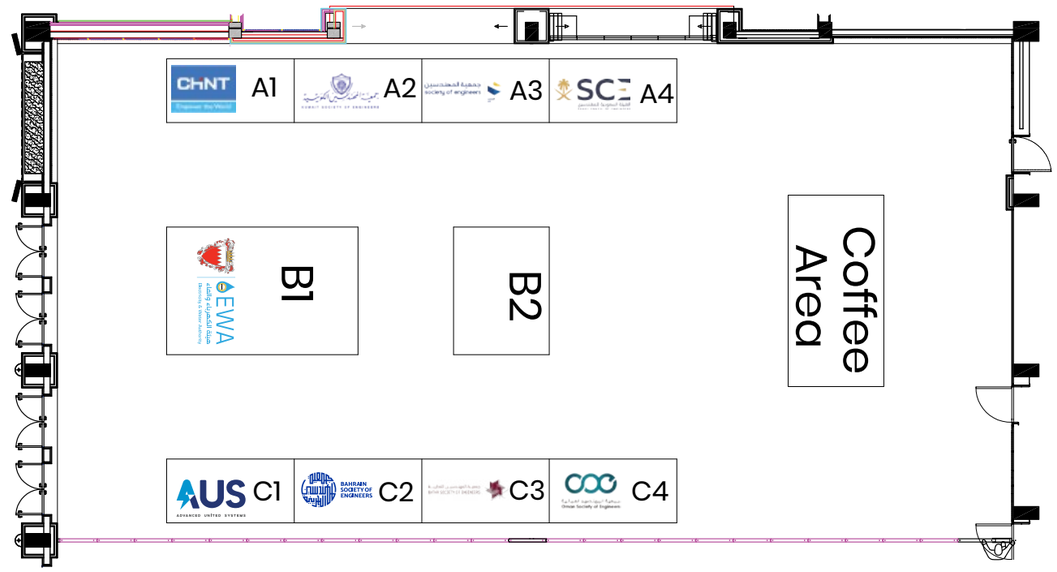

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The Electricity and Water Authority

We are committed to powering Bahrain's future through the reliable and high-quality supply of electricity and water. Our mission is to support the Kingdom's sustainable development by ensuring access to essential utilities, creating a foundation for economic and social growth. With a clear vision to be a leading entity in the utilities sector, we are driven by a commitment to excellence, innovation, and sustainability. Every aspect of our work is aligned with this purpose as we continually evolve to meet the changing needs of the communities we serve.

Our approach is guided by strategic themes that focus on financial sustainability, customer satisfaction and operational efficiency. These principles help us create a modern and efficient organization that not only delivers reliable services but also contributes positively to Bahrain's development. We are building a future in which everyone can count on access to high-quality utilities while fostering an environment of growth and progress for the Kingdom.

Collaboration with key stakeholders is essential to our success. By fostering strategic partnerships and embracing innovative technologies, we enhance our services and remain responsive to the evolving needs of our communities. This commitment ensures that we navigate challenges and capitalize on opportunities, securing a sustainable and prosperous future for Bahrain.

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Introduction:

Gulf Petrochemical Industries Co (GPIC) is a joint venture equally owned by Bapco Energies in the Kingdom of Bahrain, SABIC Agri-Nutrient Investment Company in the Kingdom of Saudi Arabia and Petrochemical Industries Co (PIC) in the State of Kuwait. GPIC uses natural gas which is readily available in Bahrain as a feedstock for the production of ammonia, urea and methanol. In addition to the production plants, the GPIC Complex which was built in Sitra on a reclaimed area of 60 hectacres, also comprises utilities plants, maintenance workshops, offices, stores and laboratories.

The company has a Board of Directors, including representatives of the three shareholding countries. GPIC considers itself a role model in the protection of the environment and was the first industrial company to use practical demonstration projects to verify the environmental credentials of its operations. A fish far, bird sanctuary, palm tree plantations and herb garden have been established at the GPIC site.

The challenges of regional and global climate change have always been at the forefront of GPIC's strategies. It was this key focus and, to manage green-house gas emissions, the Middle East's first Carbon Dioxide Recovery (CDR) plant was commissioned at GPIC in 2010. The unit captures 450 metric tonnes of carbon dioxide per day from the reformer flue gasses and has substantially reduced GPIC's carbon footprint.

To power the next generation of Bahrain

The Kingdom of Bahrain's energy landscape is changing. The way forward is global, collaborative and our success will be driven by our innovative spirit and industry-leading expertise.

bapcoenergies.com

Bapco energies

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GULF HOUSE ENGINEERING
Architects & Engineers

Gulf House Engineering (GHE) is a premier architecture and engineering consultancy, renowned for our unwavering commitment to excellence and quality. With extensive experience across Bahrain, the GCC, and the Middle East, we specialize in transforming visionary concepts into reality, prioritizing human-centered and environmentally sustainable designs. Our talented, multi-disciplinary team seamlessly integrates cutting-edge technology with a deep understanding of local cultures and environments, ensuring that every project not only meets but exceeds client expectations. GHE's commitment to shaping the future of the built environment with integrity and precision has allowed us to develop a broad international presence and a diverse portfolio across multiple countries.

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Architects & Engineers

Gulf House Engineering W.L.L.

Gulf House Engineering (GHE) stands as a leading architecture and engineering consultancy, renowned for our unwavering dedication to excellence and quality. With a wealth of experience across Bahrain, the GCC, and the Middle East, we specialize in transforming visionary ideas into reality, focusing on human-centered and environmentally sustainable designs.

Our multi-disciplinary team, guided by the visionary leadership of the Principal Architect and Managing Director Ahmed Bucheery, expertly combines cutting-edge technology with a profound understanding of local cultures and environments. This approach ensures that every project not only meets but exceeds client expectations. We are committed to shaping the future of the built environment with integrity and precision.

Quality is woven into every stage of our projects, from conception to implementation. Our deep understanding of planning and statutory regulations; along with our insight into design approaches, urban developments, technological advancements and market dynamics; enables us to navigate effectively the complexities of the various project types. Each project allows us to showcase our passion for innovation while staying attuned to client needs, and embracing a holistic design approach. We excel in delivering contextual, innovative, and sustainable solutions within project budget and timeframe.

GHE experienced and multi-disciplinary team provides a broad range of services: Architecture Urban Planning Landscape, Interior Design, Engineering and Infrastructure; as well as Site Supervision. This rich blend of professionals, which we nurture with care and collaboration, reflects our commitment to excellence, innovation and diversity. With offices in Bahrain, Abu Dhabi, Cairo, and Bosnia-Herzegovina, we establish an extensive international reach and a diverse portfolio across multiple countries.

Gulf House Engineering Co. W.L.L
Nawal A. Karim
General Manager
E: gm@ghe.com.bh

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CHINT
Empower the World

Founded in 1984, CHINT Group Co., Ltd. (hereinafter referred to as "CHINT") is a global leading smart energy solutions provider. Over the past 40 years since its establishment, CHINT has always focused on industry and brand building, deeply implemented the strategy of "Industrialization, Technologization, Internationalization, Digitalization and Platformization", and formed three major segments of "Green Energy, Intelligent Electric and Smart Low-carbon" and two major platforms of "CHINT International Platform and Sci-tech Innovation Incubation Platform", and endeavored to build up "211X" Management Capabilities, including Intelligent Electric and New Energy Industry Cluster Capabilities, Regional Localization Capability, Middle and Backstage Integration Capability, and Innovation Incubation Capability. Its business covers more than 140 countries and regions, with over 50,000 employees worldwide.

CHINT Electric Saudi Arabia is a leading force in the energy sector, dedicated to delivering innovative smart energy solutions that align with the Kingdom's Vision 2030. With more than 15 years of operational experience in Saudi Arabia, CHINT has established a strong presence by partnering with key stakeholders such as the Saudi Electric Company and local engineering firms. Through its joint ventures, CHINT has established two manufacturing facilities in Riyadh and Dammam, positioning itself as a leading provider of localized, advanced low- and medium voltage solutions for power distribution and automation in the region. By facilitating knowledge transfer and workforce development, CHINT contributes to the local economy & country's transition towards a greener future.

CHINT ELECTRIC SAUDI ARABIA CO.,Ltd
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Stand No.: A1

AUS

ADVANCED UNITED SYSTEMS

Advanced United Systems Co. Ltd. AUS is a Saudi company owned by Taj Holding Group; It was established in 2019 to operate smart grid solutions, renewable energy, and energy services. This is applied through investing in internal expertise as well as partnering with experts of their own fields.

Smart infrastructure connects energy systems, buildings, and industries intelligently to adapt and evolve the way we live and work. We work with clients and partners to create an ecosystem that intuitively responds to people's needs and helps customers use resources better. It helps our clients thrive, helps societies advance, and supports sustainable development. We do this from macro to micro-level from connected digital products, components, systems, and services. From smart grid and electricity control to energy efficiency solutions and renewable energy systems and their applications, from building automation to control and protection systems. Advanced United Systems Ltd. (AUS) is a leading provider of innovative and comprehensive solutions in the fields of energy, automation, and technology integration. Founded with a commitment to excellence, AUS has rapidly established itself as a trusted partner for businesses seeking to optimize operations, enhance efficiency, and drive sustainable growth. Our core expertise lies in delivering end-to-end solutions that encompass solar energy systems, EV charging infrastructure, smart grid technologies, automation and SCADA systems, and advanced energy management services. With a strong focus on innovation, we leverage cutting-edge technologies to design and implement customized solutions that meet the unique needs of our clients across various industries.

Our team of highly skilled engineers, technicians, and project managers works closely with clients to ensure seamless integration of systems, from initial concept through to final deployment and ongoing support. At AUS, we are committed to providing not just products and services, but also valuable partnerships that contribute to the long-term success of our clients. Our dedication to quality, safety, and sustainability is reflected in every project we undertake, as we strive to exceed industry standards and customer expectations.

With a growing portfolio of successful projects across the region, AUS continues to be a key player in the energy and technology sectors, driving innovation and creating value for our clients and the communities we serve.

Advanced United Systems Ltd.
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Stand No.: C1

GULF ENGINEERING UNION

جمعية المهندسين الكويتية
KUWAIT SOCIETY OF ENGINEERS

Kuwait Society of Engineers
www.kseonline.org/

Stand No. A2

جمعية المهندسين العمانية
Oman Society of Engineers

Oman Society of Engineers
www.ose.org.om/

Stand No. C4

جمعية المهندسين القطرية
QATAR SOCIETY OF ENGINEERS

Qatar Society of Engineers
www.qatarse.org/

Stand No. C4

SCE
الهيئة السعودية للمهندسين
SAUDI CONCIL OF ENGINEERS

Saudi Council of Engineers
www.saudieng.sa

Stand No. A4

جمعية المهندسين
society of engineers
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Society of Engineers - UAE
/www.soeuae.ae

Stand No. A3

ORGANIZERS

جمعية المهندسين البحرينية
BAHRAIN SOCIETY OF ENGINEERS

BSE is a professional voluntary organization concerned with engineers in Bahrain and looking after their interest and seeking to develop their capabilities through its technical and social programs. The official incorporation of the Bahrain Society of Engineers (BSE) was announced in the Official Gazette on 1.7. 1972.

BSE objectives include contributing in the industrial and urban development in Bahrain, regulating engineering profession and enhancing its standards, expressing the professional interests and rights of its members. Furthermore, its objectives also include conducting scientific and practical researches and encourage the same through conferences, seminars, scientific visits and exchange of information between BSE and other engineering societies.

The total registered BSE member stands now at approximately 1300 from all categories, disciplines and nationalities including Bahrainis, Arab and foreign members. The BSE has given intensive attention to raising the professional awareness among its members and updating them on the latest developments through organizing various technical symposiums, seminars and visiting on-going projects. However, organizing exhibitions and conferences play greater role in this respect since they provide valuable opportunities for members to meet with prominent experts, speakers and participants in such conferences.

BSE has opened a training center to organize courses and workshops on various vital topics in the field of engineering, technical and administrative matters and development of human resources. The training center was officially licensed by the Ministry of Labour in the in 2003. It is well equipped with the latest advanced equipment to facilitate learning and adoption with the latest know-how in order to enable it to conduct solid training courses that are recognized by major educational institutions worldwide.

Additionally, the BSE contributes actively in encouraging students to enroll in engineering disciplines through awarding grants to support students while studying.

Bahrain Society of Engineers

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Executive Manager

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الإتحاد الهندسي الخليجي
GULF ENGINEERING UNION

The Gulf Engineering Union is an Arabian Gulf professional organization. It was found in Kuwait on April 1997 and it was formerly known as the Gulf Engineering Forum. GEU consists of the following societies: The Bahrain Society of Engineers, Society of Engineers – UAE, Kuwait Society of Engineers, Oman Society of Engineers, Saudi Council of Engineers, and Qatar Society of Engineers. The union aims to endorse the role of societies/councils of engineers through organizing the practice of engineering career, through supporting the engineering work in Arabian Gulf and to achieve engineering technical cooperation between GCC countries.

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