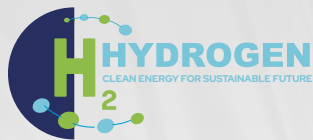


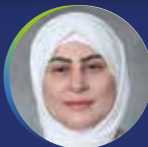
• POST EVENT REPORT •



KUWAIT INT'L HYDROGEN TECHNOLOGY SYMPOSIUM

The Kuwait Hydrogen Outlook from Vision to Action

UNDER THE PATRONAGE OF:



AMEENA RAJAB SALEH
Deputy CEO - Kuwait Oil Company

5-6 MARCH, 2024

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State of Kuwait

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Association of Energy
Professionals



ABOUT THE EVENT

In March 2024, the **1st Kuwait International Hydrogen Technology Symposium** was held at the Hilton Resort Hotel in Kuwait City, under the theme The Kuwait Hydrogen Outlook from Vision to Action. This landmark event showcased Kuwait's commitment to advancing hydrogen as a key player in the global shift towards a low-carbon economy and sustainable future. **Highlighting the significance of hydrogen in energy evolution, affordability, and security**, the symposium brought together industry leaders and experts to discuss technological advancements, investment opportunities, and policy frameworks necessary for expanding hydrogen infrastructure. **Over two days, the event fostered awareness and propelled actions toward achieving carbon neutrality in Kuwait by 2050 in the oil and gas sector, and by 2060 in other sectors, marking a pivotal moment in the country's journey towards a net-zero economy.**

CONFERENCE 2023 KEY FACTS



204 DELEGATES

16 COUNTRIES

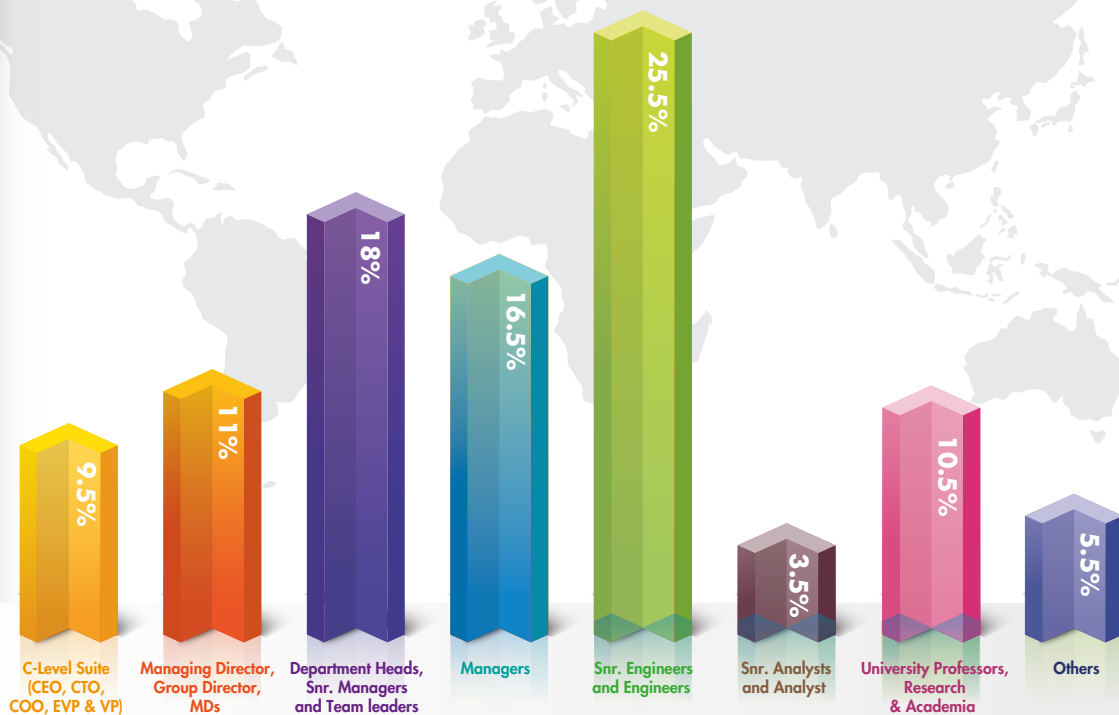
57 ORGANIZATIONS

32 SPEAKERS

7 KEY OPINION LEADERS

6 SPONSORS

CONFERENCE 2023 KEY FACTS



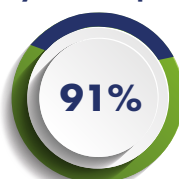
WHAT ATTENDEES SAID ABOUT THE EVENT

Quality of the event overall?



of all attendees said the event was
Very good/Excellent

Quality of the speakers



of all attendees said the quality of the technical program
Very good/Excellent

Quality of the technical program



of the attendees said the speaker quality was
Very good/Excellent

How many would attend again?



of the attendees will attend this conference again

How many would recommend it?



of the attendees would recommend the conference to their colleagues and peers

THANK YOU TO ALL OUR SPONSORS

Host Organization



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GE VERNOVA



Thank you to all our Speakers and Session Moderators



THANK YOU TO ALL COMMITTEE MEMBERS

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ABDULLAH AL-MUTAIRI

Manager (Production & Projects - GAS)
Kuwait Oil Company



ADNAN SHIHAB-ELDIN

Honorary Executive Advisor



Executive Committee Co-Chair

PETER JENSEN

ETSA Contract Manager
North Kuwaiti Jurassic Gas - Shell

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ANDREY KROKHIN

Business Development Manager Halliburton



ENG. ABDUL HADI ALAJMI

Research & Development Director
Equate



DR. MEENA MARAFI

Principal Research Scientist
KISR



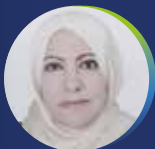
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Acting Vice Dean for Academic affairs
Research and Graduate Studies,
Kuwait University



MUDASSAR NAZEER

Assistant Professor, Programme Director,
MSc Reservoir Evaluation & Management
Herriot Watt University



BADRIA FARHAD

Former Heavy Oil Manager - NK, KOC



MOHAMED AL SHATTI

Expert on Energy, Pricing & OPEC
Strategy - Kuwait



DR. FOWZIA ABDULLA

Professor Petroleum Geology
Kuwait University



DR SAUSAN AL RIYAMI

Director
Oman Hydrogen Center

PROGRAMME COMMITTEE



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ANDREY KROKHIN
Business Development Manager Halliburton



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A/AZIZ ALBEAJAN**
Senior Planning Engineer
KIPIC



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Associate Professor Institute of
GeoEnergy Engineering
Herriot Watt University



MOHAMMED AL-BISHARAH
Team Leader - Jurassic Operation
Kuwait Oil Company



DR. MOHAMMAD AL-SHAWAF
Environmental Scientist
Kuwait University



WAEI HAMED A. MAOTI
Gas Industries Expert
Organization of Arab Petroleum Exporting
Countries "OAPEC"

KUWAIT INTERNATIONAL
HYDROGEN TECHNOLOGY

DAY 1

TUESDAY 5TH MARCH, 2024

08:00 - 08:30

► Registration & Networking Coffee

08:30 - 08:40

► Opening & Welcoming Remarks

ABDULLAH AL-MUTAIRI
Executive Committee Co-Chair

PETER JENSEN
Executive Committee Co-Chair

WALEED REFAAY
AEP Executive Director

08:40 - 09:20

► Opening Key notes

Regional decision-makers and top-ranking executives in policy, finance, technology, and industry will come together to deliver strategic keynote presentations that will drive Kuwait's future economy, offer advanced solutions to meet the energy demands of a growing population, and ensure sufficient fuel supplies and critical energy-related commodities at affordable prices, and the vision of hydrogen as an integrating force in the new global energy mix.

MODERATOR



NADER SULTAN
Senior Energy Expert

SPEAKERS



AMEENA RAJAB SALEH
Deputy CEO (Gas & Environment)
Kuwait Oil Company



DR. MARTHA CRAWFORD
Operating Partner at Macquarie
Asset Management, USA & Senior
Advisor to Gulf Cryo

DAY 1

TUESDAY 5TH MARCH, 2024

09:20 - 10:30

► Regional GCC Plenary Session: Successful Progress, Implementations & Business Models

The potential of hydrogen to enable a net-zero future is enormous, but achieving that potential will require considerable investments and applying new strategies, and business models across the entire energy value chain. Unlocking opportunities through industry-wide collaboration in the race to bring hydrogen to commercial scale and economic viability will encompass cross-border collaboration, building viable infrastructure, and maturing of import-export markets.

MODERATOR



NADER SULTAN
Senior Energy Expert

SPEAKERS



GEORGE BERESTOS
Chief Commercial Officer
Gulf Cryo



PRADEEP HANDA
General Manager – Foreign Corporate,
Oil and Trade Finance Group
National Bank of Kuwait



SAUSAN AL-RIYAMI
Director
Oman Hydrogen Center



SHAHID HASAN
Fellow - Utilities & Renewables
KAPSARC

DAY 1

TUESDAY 5TH MARCH, 2024

10:30 - 11:10

► Fireside Chat Session

SPEAKERS



LYNN AMMAR

Partner
Cleary Gottlieb Steen & Hamilton - UAE

Kuwait Hydrogen ascent,
key issues and critical perspective



OLIVIA AZADEGAN

Independent Advisor on Energy
& Climate Policy

11:10 - 11:20 | Sponsors Appreciation

11:20 - 11:45 | NETWORKING and COFFEE BREAK

DAY 1

TUESDAY 5TH MARCH, 2024

11:45 -13:00

► S2: Hydrogen Potential Markets & Technology

The time is right to tap into hydrogen's potential to play a key role in a clean, secure, and affordable energy future. Hydrogen is currently enjoying unprecedented political and business momentum, with the number of policies and projects around the World and the GCC region, expanding rapidly.

- Selecting the right strategy
- Enabling technologies in place
- Employing innovation and collaboration

SESSION CHAIRS



MOHAMMED AL-BISHARAH

Team Leader - Jurassic Operation
Kuwait Oil Company



DR. SUAD AL RADHWAN

Assistant Professor - Petroleum Engineering
Australian University, Kuwait

SPEAKERS



DR. FOTOUH AL- RAGOM

Research Scientist – EET Program,
Kuwait Institute for Scientific Research (KISR)



DR. ALI H. ABDULRAHIM

Associate Research Scientist, Energy
& Building Research Center, KISR

Clean Hydrogen Solutions for Kuwait's Power Generation Sector



BASSEM ZAHER ELKADRI

Director Industry Value Advisory
SAP

Towards Sustainable Energy -
Approach for sustainable success in the
low carbon H2 market, and Digital
Product Passport for Hydrogen



JUSTIN SCHAEFFER

Licensing Technology Manager Gasification
& Blue Hydrogen, Shell

Innovating towards more cost-effective
decarbonised (blue) hydrogen production

DAY 1

TUESDAY 5TH MARCH, 2024

13:00 - 13:45

► S3: Key Risks & Opportunities

- Financial risks, market volatility, and technology uncertainties
- Infrastructure and supply chain challenges
- Missed opportunities – “What if we don’t do it now?”
- International Regulations changing with carbon tax introduction
- Hydrogen certification: contributing to the global industry standards

SESSION CHAIRS



Dr. MEENA MARAFI
Principal Research Scientist
KISR



DR. MOHAMMAD SABTI
Senior Gas Engineer | Gas Operations Group
Kuwait Oil Company

SPEAKERS



WA'EL ALMAZEEDI
Chief Executive Officer
Avance Labs

The role of attribute tracking and
certification in facilitating hydrogen
trade



DR. MICHAEL TSANG
Chief Carbon & Sustainability Accounting Officer
Avance Labs

Piloting the Hydrogen Passport- Case
Study

DAY 1

TUESDAY 5TH MARCH, 2024

13:45 - 14:30

► S4: Hydrogen Infrastructure, Transportation and Export

The critical factor that will determine the cost-effectiveness of export and trade in hydrogen will be whether scale, technology, and efficiency gains can offset the cost of transporting the hydrogen from low-cost production areas to high-demand areas.

- ♦ Assessment of the existing energy Infrastructure
- ♦ Liquid and gaseous hydrogen – scenarios for transporting
- ♦ Hydrogen exports and key projects within the Middle East

SESSION CHAIR



SAUSAN AL-RIYAMI

Director
Oman Hydrogen Center

SPEAKERS



WAEI A. MOATI

Gas Industry Expert
OAPEC

Challenges and Opportunities of Hydrogen
Export, and key Projects in the Arab region



DR. SULEIMAN M. SULEIMAN

Associate Research Scientist
KISR

Role & Challenges of the existing energy
infrastructure for the hydrogen economy

14:30 | NETWORKING and LUNCH

DAY 2

WEDNESDAY 6TH MARCH, 2024

08:00 -08:30

► Registration & Networking Coffee

08:30 - 09:45

► S5: Panel Discussion CCUS Challenges & Opportunities

An engaging discussion panel designed to delve into the intricate realm of Carbon Capture, Utilization, and Storage (CCUS), unpacking the multi-layered obstacles present throughout its entire value chain. The discussion will center around opportunities and initiatives reinforcing the success of CCUS projects in Kuwait while focusing on establishing partnership models.

Embracing a collaborative stance among all parties involved and jointly tackling various challenges are essential for improving the economic viability of CCUS. Such a united effort is paramount in paving the way toward a future that is both decarbonized and sustainable.

MODERATOR



PETER JENSEN
ETSA Contract Manager
North Kuwaiti Jurassic Gas - Shell

SPEAKERS



ABDULLAH AL-MUTAIRI
Manager (Production & Projects - GAS)
Kuwait Oil Company



DR. MUHAMMAD MUHAMMADIEH
VP Large Industry
Gulf Cryo



OTMANE BENAMAR
Chief Technology Officer,
Gas Power Europe, Middle East & Africa,
GE Vernova



SIDDARTH RAMADURAI
Senior Advisor Energy Transition
Halliburton



UWE ZWIEFELHOFFER
Managing Director MENA
Linde

DAY 2

WEDNESDAY 6TH MARCH, 2024

09:45 -10:15

► SPOTLIGHT PRESENTATION

SPEAKER



PROF. DR. - ING. MATTHIAS FRANKE

Director of Energy Transition
Fraunhofer Institute for Environmental,
Safety & Energy Technology

10:15 - 10:45 | NETWORKING COFFEE BREAK

DAY 2

WEDNESDAY 6TH MARCH, 2024

12:30 - 13:00

- **Spotlight Presentation:**
CO2 Emissions from Waste to Value, a Commitment to Decarbonize Our Region

SPEAKER



ELIE ADAIMY

Group Director Business Development,
Technology & Innovation,
Gulf Cryo

DAY 2

WEDNESDAY 6TH MARCH, 2024

13:00 - 14:30

► S7: What will be the business model

More and more countries are recognizing the value of Hydrogen and CCUS in meeting their climate and energy goals, but there still is a gap between intention and action. Global project announcements are growing exponentially, nevertheless, the commercial deployment has remained relatively flat in the last decade. Can the emerging business models open the door to new investments, or transform the government-subsidized scenarios into public-private partnerships?

- What has the World to say
- Scaling up for commercial operations -lessons learnt
- Choosing the right path for Kuwait

SESSION CHAIR



DR. MOHAMMAD SABTI

Senior Gas Engineer | Gas Operations Group
Kuwait Oil Company

SPEAKERS



DR. AWWAL BAMANGA

Assistant Director
Nigerian Maritime Administration & Safety Agency

Navigating Regulatory Changes: Impacts on the African Bunker Market



HASAN JAFAR

Engineer Process - Operations,
Al-Zour LNG KIPIC

**Navigating the Green Horizon:
Leveraging Past Success for Future Sustainability**



DR. MALEK AL-CHALABI

Senior Carbon Pricing Policy Advisor
Shell



SHAHID HASAN

Research Fellow, Energy Transition
KAPSARC



YURI MELNIKOV

Independent Hydrogen Policy Consultant
UNECE Sustainable Energy Division

**Role of National Hydrogen Strategies in
Hydrogen Deployment: MENA and Global Trends**

14:30 | CLOSING, NETWORKING AND LUNCH



Taking a step forward with lower emissions and increased efficiency

Combining Carbon Storage with Enhanced Oil Recovery (EOR) utilizing Carbon Dioxide (CO₂) injection has been significantly used to produce incremental oil while economically sequestering CO₂ and preserving oil wells. This process reinforces Gulf Cryo's contribution towards reducing carbon emissions.

Gulf Cryo brings an extensive experience spanned over 70 years in providing industrial gas solutions to the Oil & Gas industry. Our operational excellence comes from the distinct mobilization of energized CO₂ and our commitment to only provide CO₂ in a Clean form from our state-of-the-art Carbon Capture facilities, in a large and reliable manner.

If you are ready, our team of experts will help you shift to a greener and more efficient EOR.

UAE | KSA | KUWAIT | QATAR | BAHRAIN | OMAN | JORDAN | EGYPT | TURKEY | IRAQ

We Accelerate the Energy Transition



ABOUT AEP



The Association for Energy Professionals (AEP) Established in 2016 under the Abu Dhabi Global Market Authority, Abu Dhabi Chamber of Commerce, the Association for Energy Professionals (AEP) is a diverse community dedicated to supporting professionals in the oil and gas industry in the Middle East and across the globe. Through connecting, networking, and collaborating, we strive to solve major challenges facing the energy industry. We take pride in uniting professionals in this field under one roof. Come join us!

Location: D07, 11th floor, Al Sarab Tower ADGM Square, Al Maryah Island, Abu Dhabi, United Arab Emirates

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