

تحت رعاية صاحب السمو الشيخ محمد بن زايد آل نهيان، رئيس دولة الامارات العربية المتحدة

Under the patronage of His Highness Sheikh Mohamed Bin Zayed Al Nahyan, President of the United Arab Emirates



Host

4-7 November 2024  
Abu Dhabi, UAE

أديبك  
ADIPEC

Decarbonising  
downstream  
operations through  
innovation and  
collaboration

DOWNSTREAM INDUSTRY OUTLOOK  
ADIPEC 2023 DOWNSTREAM TECHNICAL CONFERENCE

# DOWNSTREAM TECHNICAL CONFERENCE

Book your delegate pass

[www.adipec.com/conferences](http://www.adipec.com/conferences)

[www.adipec.com](http://www.adipec.com)

Supported by



وزارة الطاقة والبنية التحتية  
MINISTRY OF ENERGY & INFRASTRUCTURE



وزارة الصناعة والتقنية  
MINISTRY OF INDUSTRY  
& ADVANCED TECHNOLOGY



غرفة أبوظبي  
ABU DHABI CHAMBER



مصدر  
MASDAR



دائرة الثقافة والسياحة  
DEPARTMENT OF CULTURE  
AND TOURISM



دائرة التعليم والمعرفة  
DEPARTMENT OF EDUCATION  
AND KNOWLEDGE

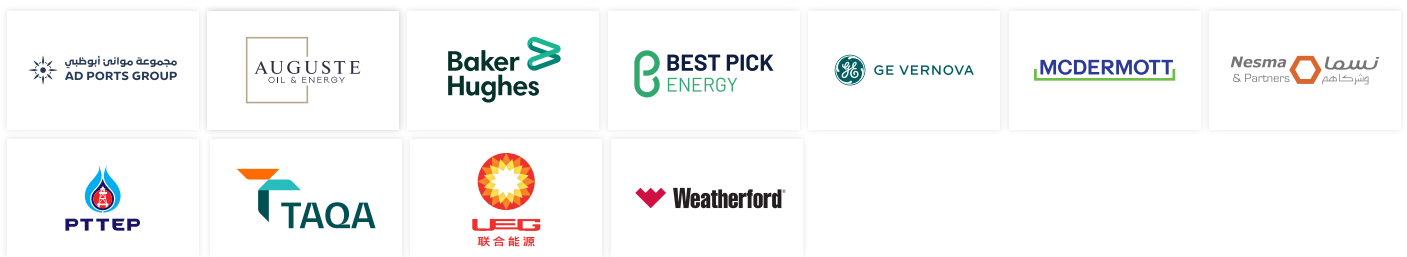
Partners



Platinum sponsors



Gold sponsors



Silver sponsors



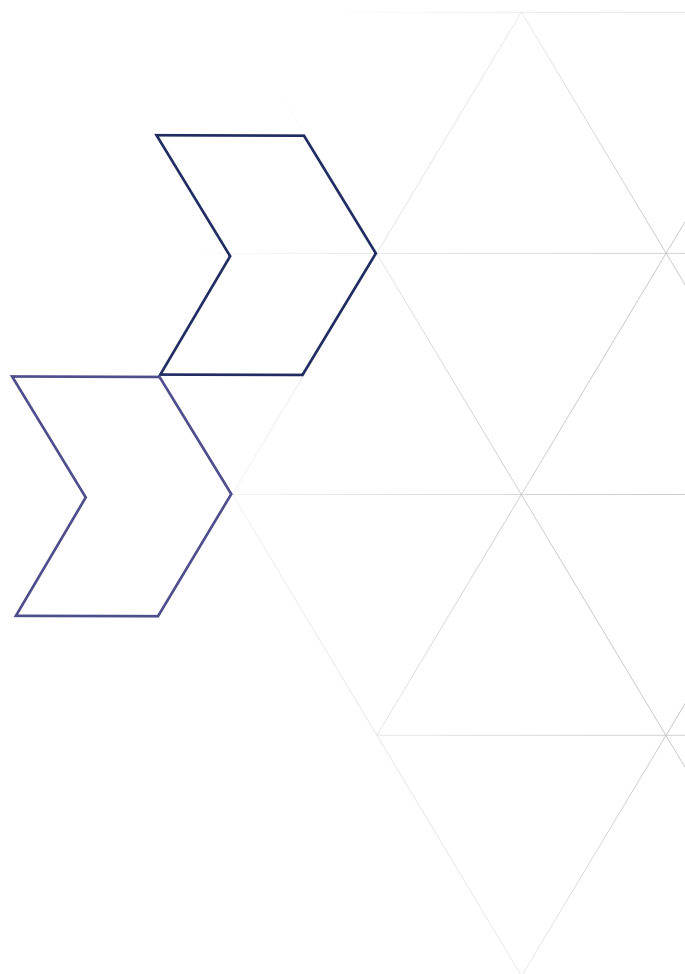
Bronze sponsors



Host city	Venue partner	Sport & recreation partner	Official local media partner	Official hotel partner	Medical partner	Strategic insights partner
Abu Dhabi	adncc centre abu dhabi مركز ادبيك أبوظبي	مدينة زايد الرياضية ZAYED SPORTS CITY	شبكة أبوظبي للإعلام ABU DHABI MEDIA NETWORK	EMIRATES PALACE MANDALIN ORIENTAL ABU DHABI	RESPONSE PLUS MEDICAL RPM	BCG
Knowledge partner	Official travel partner	Technical Conference organised by	Official broadcast partner	International news partner	Official English news partner	Official radio station
S&P Global	flyt	SPE	CNBC	sky news عربية	The National	dubai eye 103.8
Strategic media partner	Arabic Business News partner	Official media partner	ADIPEC brought to you by			
وكالة الأنباء الإماراتية EMIRATES NEWS AGENCY	الاقتصادية ENA	Energy Connects	dmg::events			

# Contents

- 04 Downstream Technical overview
- 07 Committee members
- 08 Agenda overview
- 14 Downstream Technical Conference programme
- 40 Conference passes
- 43 About the Exhibition
- 52 Venue map



# Downstream Technical Conference **overview**

As the world navigates a shifting energy landscape, the downstream sector must remain flexible and resilient, while catering to the growing need for environmentally sustainable products. Refinery and petrochemical operators must adopt collaborative and innovative solutions to enhance the efficiency and quality of their value chain operations to keep up with current energy demand.

The Downstream Technical Conference delivers a platform for downstream leaders, technical experts and innovators to exchange ideas and best practices on the solutions and cutting-edge technologies driving innovation and unlocking market opportunities for investment and growth.

Featuring eleven categories, the conference will accelerate collaboration and partnership, offering opportunities to gain insights into the transformative strategies and advancements in low-carbon solutions, digital transformation, advanced manufacturing, alternative fuels, project excellence and the wider downstream value chain.

## ADIPEC 2024 Downstream Technical Conference **in numbers**

**150**

Speakers

**30**

Sessions

**28**

Committee members

**11**

Categories

**4**

Days

**Engage with downstream leaders, experts and innovators from across the energy industry at the Downstream Technical Conference.**

**[www.adipec.com/conferences/adipec-delegate-registration](http://www.adipec.com/conferences/adipec-delegate-registration)**





# Why attend the ADIPEC Downstream Technical Conference?

Gain unparalleled access to diverse insights from 150+ speakers on the most pressing issues facing the energy industry today; learn about the latest innovations, technological advances, strategies and solutions shaping energy systems worldwide.

- **Discover cutting-edge solutions:** learn directly from industry leaders about the latest advancements in the downstream industry, expanding your technical understanding.
- **Connect with international peers:** network with a diverse group of downstream professionals from around the world, broadening your perspective and fostering valuable international connections.
- **Spark collaboration:** connect with engineers from various backgrounds to share challenges and explore collaborative solutions.
- **Future-proof your skills:** access exclusive technical papers, staying ahead of the curve to enhance your skills and future-proof your career in a dynamic market future-proofing your career.

---

## 2024 Downstream Technical Conference categories



Refining and Petrochemicals  
Technology and Operations (RPTO)



Supply Chain and Value Chain  
Management (SCVCM)



Alternative Fuels (AF)



Downstream Applications for  
Sustainability (DAS)



LNG and Gas Processing Technology  
and Operations (LGPTO)



Project Excellence, Execution and  
Efficiency (PEEE)



Hydrogen Technology and  
Operations (HTO)



Human Capital and Talent  
Management (HCTM)



Digital Transformation and Advanced  
Manufacturing Operations in  
Downstream (DTAMOD)



Circular Economy, Resource  
Efficiency and Recycling (CERER)



Carbon Capture, Utilisation, Storage  
Technology (CCUST)

# Downstream Technical Conference Committee members



**Jiri Hájek, MBA**  
CEO  
Chairman of the Board of Directors  
Orlen UniCRE a.s.



**Nadia Al-Hajji**  
CEO, Petrochemicals Industry Company  
Chairman  
EQUATE Petrochemical Company



**Fahmi Al-Shawwa**  
Founder and CEO  
Immensa



**Dr. Madhukar Garg, FNAE**  
President  
R&D Petrochemicals  
Reliance Industries Limited



**Yves Houilliez**  
MD Africa & VP Manufacturing Africa  
Middle East & Asia  
TotalEnergies



**Haytham Yehia**  
General Manager  
Middle East and Central Asia  
Shell Lubricants



**Hassan Hussain Al Hosani**  
SVP Projects and Technical  
ADNOC



**Dr. Malcolm Cook**  
Senior Vice President  
Chemicals & Process Technologies  
Middle East & Turkey  
thyssenkrupp



**Thomas M. Boesen**  
Vice President  
Middle East  
Borealis



**Mater Aldhafeeri**  
Vice President  
Sipchem



**Saeed A. Al Hajri**  
VP Manufacturing  
SATORP



**Pierre Leretz**  
Managing Director, Division Manager  
Process Industries, Southeast Asia  
New Zealand & Australia Region  
ABB Group



**Muhammad Sallehuddin B Abd Jabar**  
General Manager Process Engineering  
Group Technology Solution (GTS),  
Project Delivery and Technology (PD&T)  
PETRONAS



**Fadi Mhaini MSc.**  
Managing Director  
MENA  
Lummus Technology



**Dr. Mostafa AlGuezeri**  
MD for Gulf, Maghreb  
Near East and Pakistan  
Hitachi Energy



**Claudio Albanese**  
Head of Licensing and  
Technological Activities  
Eni Energy Evolutions



**Dr. Mikael Berthod**  
Head Business Development &  
Sustainability Growth MEA  
OMV Refining & Marketing MEA



**Dr. Ahmad Salem**  
Industrial Solutions  
Regional Director - Africa  
Baker Hughes



**Fred Baars**  
Senior Process Director  
Fluor



**Saif Sheikh**  
Sr. Director of Solution Consulting  
Aspen Technology



**Dr. Rashid Abu Al-Rub**  
Director, Advanced Digital & Additive  
Manufacturing (ADAM) Center &  
Professor, Mechanical & Nuclear  
Engineering  
Khalifa University



**Arunkumar Ayyalusamy**  
Director, Lifecycle Services &  
Commercial Excellence  
UAE, Oman, Yemen & Lebanon  
Emerson



**Manas Sahoo**  
Chief Industry Executive Advisor  
Oil & Gas & Energy and Chemicals  
SAP Industry Value Engineering  
EMEA



**Nada Al Chamdi**  
Lead Lab Scientist and Group Leader  
of Chemical Analysis Group - Research  
and Analytical Services Department  
Saudi Aramco



**Marcin Jedrzejewski**  
Partner and Associate Director  
Boston Consulting Group



**Anissa Bendjeriou Sedjerari, Ph.D.**  
R&D Portfolio Manager  
Kaust Catalysis Center (KCC)



**Maruti Prasad**  
Superintendent - Hydroprocessing  
Technical Services Department  
Bapco



**Morgan Allen**  
Senior Principal Technologist  
W. R. Grace

# Downstream Technical Conference

## agenda overview

Monday 4 November 2024

### SESSION 1

Capital Suite 15

14:00 - 15:50

Advancing sustainability in downstream

### SESSION 2

Capital Suite 20

14:00 - 15:50

Building resilient supply chains for the downstream industry

### SESSION 3

Capital Suite 18

14:00 - 15:50

Cultivating an adaptable and resilient downstream workforce

Tuesday 5 November 2024

### SESSION 4

Capital Suite 15

09:30 - 11:20

Shaping a new era for refining and petrochemical operations

### SESSION 5

Capital Suite 15

11:30 - 13:20

Maximising value and efficiency through project excellence

### SESSION 6

Capital Suite 15

14:00 - 15:00

Transforming the downstream landscape with gas and LNG processing technology

### SESSION 7

Capital Suite 20

09:30 - 11:20

Advancing sustainability in downstream

### SESSION 8

Capital Suite 20

11:30 - 13:20

Pioneering sustainable and efficient refining through circularity

### SESSION 9

Capital Suite 20

14:00 - 15:50

Maximising value and efficiency through project excellence

### SESSION 10

Capital Suite 18

09:30 - 11:20

Converting carbon emissions to opportunities through innovative technology

### SESSION 11

Capital Suite 18

11:30 - 13:20

Developing frameworks for a hydrogen-powered industry

### SESSION 12

Capital Suite 18

14:00 - 15:50

Optimising downstream operations with smart manufacturing and digital solutions



## Wednesday 6 November 2024

### SESSION 13

Capital Suite 15

09:30 - 11:20

Maximising value and efficiency through project excellence

### SESSION 14

Capital Suite 15

11:30 - 13:20

Shaping a new era for refining and petrochemical operations

### SESSION 15

Capital Suite 15

14:00 - 15:00

Driving a sustainable future with alternative fuels

### SESSION 16

Capital Suite 20

09:30 - 11:20

Transforming the downstream landscape with gas and LNG processing technology

### SESSION 17

Capital Suite 20

11:30 - 13:20

Maximising value and efficiency through project excellence

### SESSION 18

Capital Suite 20

14:00 - 15:00

Converting carbon emissions to opportunities through innovative technology

### SESSION 19

Capital Suite 18

09:30 - 11:20

Developing frameworks for a hydrogen-powered industry

### SESSION 20

Capital Suite 18

11:30 - 13:20

Optimising downstream operations with smart manufacturing and digital solutions

### SESSION 21

Capital Suite 18

14:00 - 15:00

Optimising downstream operations with smart manufacturing and digital solutions

## Thursday 7 November 2024

### SESSION 22

Capital Suite 15

09:30 - 11:20

Pioneering sustainable and efficient refining through circularity

### SESSION 23

Capital Suite 15

11:30 - 13:20

Maximising value and efficiency through project excellence

### SESSION 24

Capital Suite 15

14:00 - 15:00

Transforming the downstream landscape with gas and LNG processing technology

### SESSION 25

Capital Suite 20

09:30 - 11:20

Shaping a new era for refining and petrochemical operations

### SESSION 26

Capital Suite 20

11:30 - 13:20

Driving a sustainable future with alternative fuels

### SESSION 27

Capital Suite 20

14:00 - 15:00

Developing frameworks for a hydrogen-powered industry

### SESSION 28

Capital Suite 18

09:30 - 11:20

Optimising downstream operations with smart manufacturing and digital solutions

### SESSION 29

Capital Suite 18

11:30 - 13:20

Optimising downstream operations with smart manufacturing and digital solutions

### SESSION 30

Capital Suite 18

14:00 - 15:00

Optimising downstream operations with smart manufacturing and digital solutions

## Advancing sustainability in downstream

Category

Downstream Applications for Sustainability (DAS)



## Location

Capital Suite 15

## Time

14:00 - 15:50

## Session Chairs



**Maruti Prasad**  
Superintendent  
Hydroprocessing Technical  
Services Department  
BAPCO



**Saif Sheikh**  
Senior Director Solution  
Consulting  
Aspen Technology

14:00 - 14:20

Decarbonisation roadmap meeting ADNOC net-zero &amp; energy transition strategies



**Sarah Al Abkash**  
Process Engineer  
ADNOC Gas

14:20 - 14:40

Plugging an emission leak: eliminating pollution and extracting its value



**Morten Mellerud**  
CTO  
Vaholmen VOC Recovery AS

14:40 - 15:00

Digitalisation approach to carbon emission tracking &amp; measurement



**Rajeet Jayan**  
Principal Domain Consultant  
O&G Tech Mahindra Ltd

15:00 - 15:20

Carbon footprint, traceability, and management



**Geetali Kalita**  
Head ESG  
Numaligarh Refinery

15:20 - 15:40

High-voltage, fast-charging sodium-ion cathode material development for affordable indigenous sodium-ion batteries



**Dr. Binitha G**  
Manager  
Hindustan Petroleum Green R&D Centre

10-minute Q&amp;A

Building resilient supply chains for the downstream industry

Category

Supply Chain and Value Chain Management (SCVCM)



Location

Capital Suite 20

Time

14:00 - 15:50

Session Chairs



**Mater Aldhafeeri**  
Vice President  
Sipchem



**Saeed A. Al Hajri**  
VP Manufacturing  
SATORP

14:00 - 14:20

**Revolutionising procurement risk management: ADNOC's AI-driven transformation using ERP data**



**Habib Ahmad Noor**  
Senior Specialist Procurement Risks  
ADNOC

14:20 - 14:40

**Create "Walmart" for oil and gas industry by standardisation**



**Azmat Ali**  
Team Lead Strategic Procurement  
Oil & Gas Development Company Limited

14:40 - 15:00

**The world in turmoil: mastering the manufacturing and distribution network strategy and optimisation and ensuring product supply**



**Dr.-Ing. Wilderich Heising**  
Partner and Associate Director  
Boston Consulting Group

15:00 - 15:20

**ESG in the supply chain: insights into global trends and opportunities**



**David Bibby**  
Senior Director EMEA Operations  
ISN Software UK Ltd

15:20 - 15:40

**Non-traditional business arrangements: a steppingstone for energy transformation at OMV**



**Hector Infante**  
Advisor Process Engineering  
OMV Fuels and Feedstock

10-minute Q&A



## Cultivating an adaptable and resilient downstream workforce

Category

Human Capital and Talent Management



## Location

Capital Suite 18

## Time

14:00 - 15:50

## Session Chairs



**Jiří Hájek**  
CEO  
Chairman of the  
Board of Directors  
Orlen UniCRE a.s.



**Ayman Ismaeil**  
Government & Institutional  
Relations - MEA  
Hitachi Energy

14:00 - 14:20

**An enhanced enterprise capability programme for developing broad-based and systems-thinking technical talents towards 2030**



**Suzilawati Mohamed Salleh**  
Manager Group Technical Capability Management  
PETRONAS

14:20 - 14:40

**Empowering future leaders: strategic leadership development and succession planning at Borouge**



**Dr. Kamran Yaqub**  
Senior Specialist  
Leadership Development  
Borouge

15:00 - 15:20

**Fast track learning, technology adoption & certification towards effective talent management**



**Ammar Mousa**  
Training Program Manager  
Aspen Technology

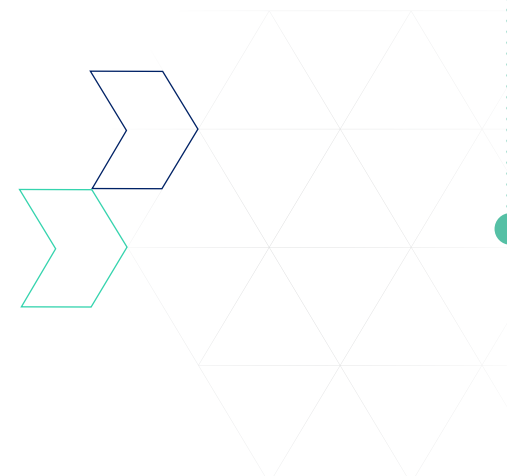
15:20 - 15:40

**Transforming Emirati youth into global leaders: ADNOC's revolutionary GCP programme for a sustainable, competitive future**



**Prof. (Dr.) Arun Kumar**  
Professor  
ADNOC Technical Academy

10-minute Q&amp;A



Shaping a new era for refining and petrochemical operations

Category

Refining and Petrochemicals Technology and Operation



Location

Capital Suite 15

Time

09:30 - 11:20

Session Chairs



**Saeed A. Al Hajri**  
VP Manufacturing  
SATORP



**Marcin Jdrzejewski**  
Partner and Associate  
Director  
Boston Consulting Group

09:30 – 09:50

**Light ends processing for advanced refinery: cracker integration**



**Gerhard Warecka**  
Senior Advisor Technical Development  
Refining MEA  
OMV Downstream GmbH

10:10 – 10:30

**FCC fueling chemicals: how configuration, operation, and catalyst drive maximum crude to chemicals**



**Hernando Salgado**  
Technical Service Manager EMEA  
BASF

10:30 – 10:50

**Yanbu refinery enhancing condensate recovery by overcoming design deficiencies**



**Maddala V Bhanumurthy**  
Operations Engineer Specialist - Yanbu Refinery Department  
Saudi Aramco

10:50 – 11:10

**The novel process for separation of water and sediments from ETP slop oil**



**Dhiraj Gondaliya**  
Head R&D Lab  
Nayara Energy Ltd

10-minute Q&A





Maximising value and efficiency through project excellence

Category

Project Excellence, Execution and Efficiency



Location

Capital Suite 15

Time

11:30 - 13:20

Session Chairs



**Hassan Hussain Al Hosani**  
SVP Projects and Technical  
ADNOC



**Arunkumar Ayyalusamy**  
Director  
Lifecycle Services &  
Commercial Excellence - UAE  
Oman, Yemen & Lebanon  
Emerson

11:30 - 11:50

Innovative design solutions for ground flare challenges



**Mohammed Al-Hashem**  
Lead Mechanical Engineer  
Saudi Aramco

11:50 - 12:10

Marflex smart pumping: innovative technology designed to revolutionise efficiency and safety of tanker operations



**Peter Raaijmakers**  
Corporate Manager Technics  
MarFlex

12:10 - 12:30

Al-Noor desalting project: simpler design and big savings



**Saif Hajri**  
Senior Process Engineer  
Petroleum Development Oman

12:30 - 12:50

Wireless monitoring of composite repairs for effective corrosion management of pipes



**Saif Al-Malahi**  
Engineering Regional Manager  
CSNRI

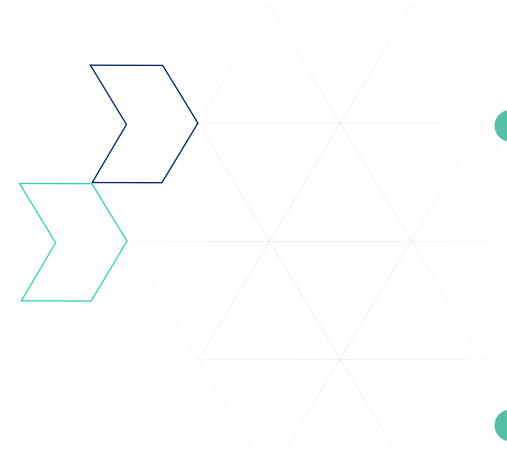
12:50 - 13:10

Challenges faced during the construction of LPG caverns



**K S L Satyanarayana**  
General Manager LPG Projects  
Hindustan Petroleum Corporation Limited

10-minute Q&A



## Transforming the downstream landscape with gas and LNG processing technology

Category

LNG and Gas Processing Technology and Operations



## Location

Capital Suite 15

## Time

14:00 - 15:50

## Session Chairs



**Saeed A. Al Hajri**  
VP Manufacturing  
SATORP



**Fadi Mhaini MSc.**  
Managing Director  
Lummus Technology MENA

14:00 - 14:20

Studying the effect of high feed gas temperature and compositional changes on the performance of gas processing unit



**Tabassam Nafees**  
Chief Incharge/P&P  
Oil and Gas Development Company Limited

14:20 - 14:40

Gas disposal for a greener tomorrow: sustainable sour vent gas handling & optimisation for reduced carbon footprint



**Sathish Kumar Sankaran**  
Senior Process Engineer  
SLB

14:40 - 15:00

Enhancing CO<sub>2</sub> removal in Habshan-2 AGRUs with solvent reformulation technology



**Venugopal Bakthavachsala**  
Team Leader Process Engineering  
ADNOC Gas

10-minute Q&amp;A



## Advancing sustainability in downstream

Category

Downstream Applications for Sustainability



## Location

Capital Suite 20

## Time

09:30 - 11:20

## Session Chairs

**Jiří Hájek**

CEO  
Chairman of the  
Board of Directors  
Orlen UniCRE a.s.

**Ayman Ismaeil**

Government & Institutional  
Relations - MEA  
Hitachi Energy

09:30 – 09:50

**Engineering excellence: H2-ready gas turbines & state-of-art mixing skids for hydrogen & natural gas blends**

**Danijel Bukša**

Transformational Growth  
Technical Sales & Global Projects  
Siemens Energy

09:50 – 10:10

**Maximisation of renewable components in SAF while coprocessing in existing refinery configuration**

**Srinivasulu Kaalva**

Chief Manager (R&D)  
Bharat Petroleum Corporation Ltd

10:10 – 10:30

**Toward a tradable, low-carbon product standard for steel: policy design considerations for the UAE**

**Olga Rudkovskaya**

ESG Department Manager  
ADNOC

10:30 – 10:50

**Sustainable production enhancement of Borouge's ethylene plant using AI-powered dynamic optimisation**

**Santosh Kolipaka**

Senior Specialist  
Production Optimisation Olefins  
Borouge

10-minute Q&amp;A



## Pioneering sustainable and efficient refining through circularity

Category

Circular Economy, Resource Efficiency and Recycling



## Location

Capital Suite 20

## Time

11:30 - 13:20

## Session Chairs



**Jiří Hájek**  
CEO  
Chairman of the  
Board of Directors  
Orlen UniCRE a.s.



**Dr. Mikael Berthod**  
Head Business Development  
& Sustainability Growth MEA  
OMV Refining & Marketing  
MEA

11:30 - 11:50

**Investigation on using non-conventional feeds in ADNOC Refining**



**Abdulmajeed Saleh Bader Abdulla Alkathheeri**  
Team Leader, Catalysis RCQC  
ADNOC Refining

11:50 - 12:10

**Introducing novel purification technologies of waste plastics pyrolysis oils for the chemical industry**



**Mohammed Ali**  
Technology Manager  
BASF

12:10 - 12:30

**Enhanced tyre rubber-bitumen systems using a novel compatibilisation solution for sustainable road paving**



**Maha AlSayegh**  
Lead Scientist  
Saudi Aramco

12:30 - 12:50

**Towards a net-zero plastics industry**



**Lukas Budde**  
Post-doc and Division Deputy  
Institute for Technology Management  
at the University of St.Gallen

12:50 - 13:10

**Decarbonising production waste management with ENVOREM's eco-friendly technology**



**Mark Batt-Rawden**  
Managing Director  
Envorem Limited

10-minute Q&amp;A

Maximising value and efficiency through project excellence

Category

Project Excellence, Execution and Efficiency



Location

Capital Suite 20

Time

14:00 - 15:50

Session Chairs



**Mater Aldhafeeri**  
Vice President  
Sipchem



**Pierre Leretz**  
Managing Director  
Division Manager  
Process Industries  
Southeast Asia, New Zealand  
& Australia Region  
ABB Group

14:00 - 14:20

Increased inspection efficiency by robotic inspection



**Talal Ahmed Ali Al Hosan**  
Inspection Engineer  
ADNOC Gas

14:20 - 14:40

A journey towards measuring & enhancing the wrench time



**Abdullah Taleb AlMaghmsi**  
Maintenance Engineering and  
Planning Unit Head  
Saudi Aramco

14:40 - 15:00

Profitability of LNG plants of Algeria in all-electric drive



**Dr. Mohammed Abdelfettah Bouzid**  
Engineer  
SONATRACH

15:00 - 15:20

Transformational upgrades and data digitalisation: minimising errors and enhancing efficiency during inspection activities



**Arya Yudhistira**  
S.T, Surface Facility Engineer  
Mubadala Energy

10-minute Q&A





Converting carbon emissions to opportunities through innovative technology

Category

Carbon Capture, Utilisation, Storage Technology



Location

Capital Suite 18

Time

09:30 - 11:20

Session Chair



**Maruti Prasad**  
Superintendent  
Hydroprocessing Technical  
Services Department  
BAPCO



**Muhammad Sallehuddin  
B Abd Jabar**  
General Manager Process  
Engineering, Group  
Technology Solution, Project  
Delivery and Technology  
PETRONAS

09:30 – 09:50

Transport and storage CCS: designing for success



**David Fergusson**  
Head of Market, Upstream Consulting and Products  
Technip Energies

10:10 – 10:30

Decentralising the CO2 market: Ecobal’s innovative approach to carbon capture, utilisation, and storage through advanced sequestration and digital finance integration



**Don De Jong**  
Founder and CEO  
Ecobal

10:30 – 10:50

Geo-mechanical considerations and risk assessment for geological CO2 storage in subsurface formations: a review



**Mohammed Abdalraheem**  
Ph.D. Student  
King Fahd University of Petroleum and Minerals

10:50 – 11:10

CO2-enhanced shale gas recovery: monotonic and cyclic injection



**Jose Davalos M.**  
Ph.D. Student  
KAUST

10-minute Q&A



## Developing frameworks for a hydrogen-powered industry

Category

Hydrogen Technology and Operations



## Location

Capital Suite 18

## Time

11:30 - 13:20

## Session Chairs



**Dr. Malcolm Cook**  
VP & Head of Chemical  
Process Technologies for  
Middle East and Turkey  
thyssenkrupp Uhd



**Fred Baars**  
Senior Process Director  
Fluor

11:30 - 11:50

Green hydrogen: mitigating instability in off-grid networks



**Lewis Collier MEng MIET**  
Graduate Electrical Engineer  
Wood PLC

11:50 - 12:10

Accelerating the development and control of green hydrogen technology through the use of artificial intelligence



**Dario Pasqualini**  
Vice President Innovation  
Vision2H

12:10 - 12:30

Developing the hydrogen market: engineering solutions for hydrogen usage to enable decarbonisation pathways



**Luigi Crolla**  
Head of Energy Transition  
Technologies  
Kent

12:30 - 12:50

Algae-assisted solar hydrogen production: a sustainable energy solution



**Vignesh Moothayil**  
IT Support Specialist  
Oceanic Ship Repair and Engineering  
Services LLC

12:50-13:10

Materials for hydrogen refuelling stations (HRS): comparison of properties and standard requirements



**Denis Ruh**  
Sales & Marketing Manager EMEA  
Alleima

10-minute Q&amp;A

Optimising downstream operations with smart manufacturing and digital solutions

Category

Digital Transformation and Advanced Manufacturing Operations in Downstream



Location

Capital Suite 18

Time

14:00 - 15:50

Session Chairs



**Ayman Ismaeil**  
Government & Institutional Relations - MEA  
Hitachi Energy



**Dr. Ahmad Salem**  
Industrial Solutions Regional Director - Africa  
Baker Hughes

14:00 - 14:20

Development and deployment of a “game-changing” crude selection solution



**Abraham George**  
Team Leader Research Analysis  
ADNOC Refining

14:40 - 15:00

Smart flare tracker: how to reduce flaring in TotalEnergies’ daily operations with data model & internet of things



**Jérôme Arnaud**  
RC Digital Transformation Officer  
TotalEnergies

15:00 - 15:20

Refinery shutdown management system (STOP4)



**Chandresh Suchak**  
Area Manager Turnaround Management  
Nayara Energy Ltd

15:20 - 15:40

Digitalisation strategy for decarbonisation of the oil and gas construction sector



**Dr. Subrata Bhowmik**  
Principal Engineer Innovation  
McDermott

10-minute Q&A



## Maximising value and efficiency through project excellence

Category

Project Excellence, Execution and Efficiency



## Location

Capital Suite 15

## Time

09:30 - 11:20

## Session Chairs



**Maruti Prasad**  
Superintendent  
Hydroprocessing Technical  
Services Department  
BAPCO



**Arunkumar Ayyalusamy**  
Director, Lifecycle Services &  
Commercial Excellence - UAE  
Oman, Yemen & Lebanon  
Emerson

09:30 – 09:50

**Additive manufacturing: revolutionising oil & gas operations and maintenance**



**Hagar Rabia**  
Senior Engineer Rotating Equipment  
ADNOC Gas

10:10 – 10:30

**Design challenges of green sustainable specialty chemical technology in producing bio-based mono ethylene glycol (MEG)**



**Ts. Nur Baizurah M Zamry**  
Principal Process Design Engineer  
PETRONAS

10:30 – 10:50

**OCTEV methodology: a proactive approach to mitigate delays**



**Jaydeep Jesur**  
Senior Manager  
(Contracts & Purchase)  
Engineers India Limited

10-minute Q&amp;A



## Shaping a new era for refining and petrochemical operations

Category

Refining and Petrochemicals Technology and Operation



## Location

Capital Suite 15

## Time

11:30 - 13:20

## Session Chairs



**Hassan Hussain Al Hosani**  
SVP Projects and Technical  
ADNOC



**Dr. Mikael Berthod**  
Head Business Development  
& Sustainability Growth MEA  
OMV Refining & Marketing  
MEA

11:30 - 11:50

**Powering the transition to net-zero: update on technology demonstration of electric cracking furnaces and pathway to commercialisation**



**Dr. Gunther Kracker**  
Director Product Management & Cost Estimation  
Linde Engineering

11:50 - 12:10

**Advancement of integrated refining and petrochemical technology in China**



**Yingmin Ye**  
Managing Director  
CHEM1 Consulting & Service Co., Limited

12:10 - 12:30

**10 Gm<sup>3</sup>/year freshwater intake substitution by treated city water at TotalEnergies Antwerp platform**



**Pedro da Silva**  
Deputy General Plant Manager  
Grandpuits-Gargeville Platform  
TotalEnergies

12:30 - 12:50

**From waste to clean energy: the acid path to decarbonising refineries**



**Igor Kostromin**  
Licensing Manager  
Topsoe A/S

12:50 - 13:10

**Modules design and build with commissioning in mind**



**Clint Goodeaux**  
Senior Manager Commissioning/Startup  
KBR Technical Services

10-minute Q&amp;A



## Driving a sustainable future with alternative fuels

Category

Alternative Fuels



## Location

Capital Suite 15

## Time

14:00 - 15:50

## Session Chairs

**Muhammad Sallehuddin  
B Abd Jabar**General Manager Process  
Engineering, Group  
Technology Solution, Project  
Delivery and Technology  
PETRONAS**Mater Aldhafeeri**Vice President  
Sipchem

14:00 - 14:20

**Insights on biofuels and bio-feedstock at OMV: lessons learned applicable in the Middle East****Oana Toropoc**Senior Advisor Economics  
OMV Fuels and Feedstock

14:20 - 14:40

**Sustainable aviation fuel at TotalEnergies: from quick-to-implement co-processing in 2022 to retrofitted standalone plant in 2025****Lassad Rezgui**VP Business Development  
Middle East and Africa  
TotalEnergies Refining & Chemicals

14:40 - 15:00

**The essential need for sustainable aromatics****Iain Gilmore**Business Development Director  
Johnson Matthey

15:00 - 15:20

**Targeting SAF production through co-processing: a chemical perspective****Hanin Radman**Scientist - Catalysis Research  
ADNOC Refining

15:20 - 15:40

**Biorefinery: onsite valorisation of HVO/HEFA pretreatment by-products resulting in lower carbon impact****Cathy Fuchs**Water Specialist for the Global Energy Market  
Veolia

10-minute Q&amp;A

Transforming the downstream landscape with gas and LNG processing technology

Category

LNG and Gas Processing Technology and Operations



Location

Capital Suite 20

Time

09:30 - 11:20

Session Chairs



**Muhammad Sallehuddin B Abd Jabar**  
 General Manager Process Engineering, Group Technology Solution, Project Delivery and Technology PETRONAS



**Morgan Allen**  
 Senior Principal Technologist  
 W. R. Grace

09:30 – 09:50

Enabling widespread use of low-cost, near-zero-carbon LNG



**David Mercer**  
 Director - Office of Technology  
 Fluor

09:50 – 10:10

Eliminate BTEX emission to the atmosphere from gas dehydration system



**Dr. Mohamed Mahmoud**  
 Senior Lab Scientist  
 Saudi Aramco

10:10 – 10:30

FAC in the low-pressure condensate drum condenser tubes-case study



**Tilakraj D. Hosadurga**  
 Senior Inspection Engineer  
 ADNOC Sour Gas

10:50 – 11:10

Review of LNG dehydration units' corrosion and mitigation methods



**Dr. Mabruk Suleiman**  
 Founder and Owner  
 Mabruk Harurah Consultancy

10-minute Q&A



## Maximising value and efficiency through project excellence

Category

Project Excellence, Execution and Efficiency



## Location

Capital Suite 20

## Time

11:30 - 13:20

## Session Chairs



**Arunkumar Ayyalusamy**  
Director  
Lifecycle Services &  
Commercial Excellence - UAE  
Oman, Yemen & Lebanon  
Emerson



**Yves Houilliez**  
MD Africa & VP Manufacturing  
Africa, Middle East & Asia  
TotalEnergies

11:30 - 11:50

**Case study on how latest compressor technology could benefit a rich gas train in a Middle East refinery**



**David Bartolini**  
OOP Centrifugal Compressors Product Leader  
Baker Hughes

11:50 - 12:10

**Cost-effective management of shutdowns and turnarounds with structured MOC and STO software**



**Mijesh Mohan Puthenveetil**  
Vice President  
Maventic Innovative Solutions Private Limited

12:10 - 12:30

**Assessing and mitigating environmental risks in natural gas processing: a comparative study of sour and ultra-sour gas**



**Dr. Mariam Ali Almahri**  
Research Scientist Chemical Engineering  
Khalifa University

12:30 - 12:50

**Project implementation & execution models, production efficiency, process reliability & margin improvements**



**David Dickinson**  
Yard Fabrication Manager  
Kent

12:50 - 13:10

**Enhancing refinery safety: the imperative for process safety studies**



**Mohamed Mady**  
Senior Process Safety Engineer  
ANOPC

10-minute Q&amp;A

Converting carbon emissions to opportunities through innovative technology

Category

Carbon Capture, Utilisation, Storage Technology



Location

Capital Suite 20

Time

14:00 - 15:50

Session Chairs



**Fred Baars**  
Senior Process Director  
Fluor



**Jiří Hájek**  
CEO  
Chairman of the  
Board of Directors  
Orlen UniCRE a.s.

**14:00 - 14:20**  
Advancing passive/microseismic technology to monitor subsurface reservoirs during CO<sub>2</sub> injection



**Dr. Roy Bitrus**  
Director of Sales  
TensorGEO Ltd

**14:20 - 14:40**  
Carbon2Chem: thyssenkrupp Decarbon Technologies' lighthouse plant to transform emissions from hard-to-abate industries



**Gabriele Omassi**  
Head of Strategy & Business Models  
thyssenkrupp Decarbon Technologies

**14:40 - 15:00**  
Clearing the air: overcoming challenges for direct air capture in the UAE's hot climate



**Michael Czarnecki**  
Concept Study Lead  
Kent

**15:00 - 15:20**  
Oxygen removal enables the success of CCS hubs' business model



**Ekaterina Novakova**  
Global Commercial Leader - Gas Purification  
Johnson Matthey

**15:20 - 15:40**  
A computational workflow for quantifying and mitigating seismic risk in a prospective carbon dioxide storage site



**Muhammad Maaz Ali**  
Field Engineer  
SLB

10-minute Q&A



## Developing frameworks for a hydrogen-powered industry

Category

Hydrogen Technology and Operations



## Location

Capital Suite 18

## Time

09:30 - 11:20

## Session Chairs



**Marcin Jedrzejewski**  
Partner and Associate  
Director  
Boston Consulting Group



**Yves Houilliez**  
MD Africa & VP Manufacturing  
Africa, Middle East & Asia  
TotalEnergies

09:30 – 09:50

### Renewable hydrogen: unlocking India's sustainable energy potential & opportunities



**Shobhit Goyal**  
Assistant Manager Corporate  
Planning & Economic Studies  
IndianOil Corporation Limited

09:50 – 10:10

### Enhancing green hydrogen production through nano-scale engineering in electrolyzers by SunGreenH2



**Vishakh Kumar**  
Research Engineer  
SunGreenH2 Pte Ltd

10:10 – 10:30

### Subsurface storage of hydrogen in depleted gas reservoirs



**Devansh Shrivastava**  
ESG Analyst  
Inspired PLC

10:30 – 10:50

### Hydrogen injection into the current natural gas network



**Mohamed Al Naggat**  
General Manager  
Car Gas

10:50 – 11:10

### On the key performance indicators of CPO, SMR and ATR in the low carbon hydrogen production



**Leonardo Falbo, Ph.D.**  
Technology Process Engineer  
NextChem Tech, MAIRE

10-minute Q&amp;A

## Optimising downstream operations with smart manufacturing and digital solutions

Category

Digital Transformation and Advanced Manufacturing Operations  
in Downstream

## Location

Capital Suite 18

## Time

11:30 - 13:20

## Session Chairs



**Dr. Ahmad Salem**  
Industrial Solutions Regional  
Director - Africa  
Baker Hughes



**Manas Sahoo**  
Chief Industry Executive  
Advisor - Oil & Gas & Energy  
and Chemicals, SAP Industry  
Value Engineering EMEA

11:30 - 11:50

AI-dynamic sensing using smart-legged robot technology



**Mulham R. Ezmirly**  
Control System Engineer  
Saudi Aramco

11:50 - 12:10

Use of generative AI within TotalEnergies to quickly  
access former return on experience: root cause analysis  
documents & synthesis

**Katelijne De Moor**  
VP Innovation & Value Mapping  
TotalEnergies

12:30 - 12:50

Lessons learned from quality assurance of digital  
and AI-driven solutions

**Kjell Eriksson**  
VP Digital Trust Venture  
DNV

12:50 - 13:10

Leveraging generative AI to prevent foaming and flooding  
events in distillation columns

**Juergen Weichenberger**  
VP of AI Innovation and Strategy  
Schneider Electric

10-minute Q&amp;A





## Optimising downstream operations with smart manufacturing and digital solutions

Category

Digital Transformation and Advanced Manufacturing Operations  
in Downstream

## Location

Capital Suite 18

## Time

14:00 - 15:50

## Session Chairs

**Marcin Jedrzejewski**  
Partner and Associate  
Director  
Boston Consulting Group**Saif Sheikh**  
Senior Director Solution  
Consulting  
Aspen Technology

14:00 - 14:20

**Fibre optic monitoring technology to reduce corrosion, leaks and energy consumption****Thomas Van Hoestenbergh**  
CEO  
Fluves

14:20 - 14:40

**Accelerating the global transition to cleaner energy****Mansour Belhadj**  
General Manager  
Energy & Resources  
Microsoft

14:40 - 15:00

**Real-time tracking of flooding in crude distillation towers and foaming probability in amine regeneration units using AI models****Suman Senapati**  
Manager PRCC  
Hindustan Petroleum Corporation Limited

15:00 - 15:20

**Building a high-performance and smart digital plant by leveraging secure network architecture and protocols unlocking field sensor data and diagnostics****Analyn Corcuera**  
Solution Architect & BD Manager  
Pervasive Sensing & Connectivity  
Emerson

15:20 - 15:40

**AI's role in pioneering autonomous operations in oil and gas****Wassim Ghadban**  
VP Global Innovation & Digital Engineering  
Kent

10-minute Q&amp;A

## Pioneering sustainable and efficient refining through circularity

Category

Circular Economy, Resource Efficiency and Recycling



## Location

Capital Suite 15

## Time

09:30 - 11:20

## Session Chairs

**Marcin Jedrzejewski**Partner and Associate  
Director  
Boston Consulting Group**Nada Al Ghamdi**Lead Lab Scientist and Group  
Leader of Chemical Analysis  
Group - Research and  
Analytical Services Department  
Saudi Aramco

09:30 – 09:50

Produced water, from waste to a high-value resource

**Basma Nasser Al Shidhani**Lead Projects Control  
Petroleum Development Oman

09:50 – 10:10

Pre-treatment of mixed plastics fractions for chemical recycling: status and outlook

**Michaela Fraubaum**Department Manager  
Feedstock and Pre-treatment Technologies  
OMV Downstream GmbH

10:10 – 10:30

Borouge circular economy solutions addressing challenges in PO recycling

**Selcuk Ertekin**Manager Business Development  
Asset Development  
Borouge

10:30 – 10:50

Chemical plastics recycling in practice: what have we learned?

**Fred Baars**Senior Process Director  
Fluor

10:50 – 11:10

Breaking barriers of plastic circularity by leveraging the complementarity of mechanical and chemical recycling

**Delphine Largeteau**Global Sustainability Consulting Director  
Schneider Electric

10-minute Q&amp;A

## Maximising value and efficiency through project excellence

Category

Project Excellence, Execution and Efficiency



## Location

Capital Suite 15

## Time

11:30 - 13:20

## Session Chairs



**Hassan Hussain Al Hosani**  
SVP Projects and Technical  
ADNOC



**Pierre Leretz**  
Managing Director  
Division Manager  
Process Industries  
Southeast Asia, New Zealand  
& Australia Region  
ABB Group

11:30 - 11:50

**Strategic investments to reduce carbon footprint: 2023-2024  
TotalEnergies' \$1 billion energy savings plan, with a focus on  
refining and chemicals initiatives and achievements**



**Guillaume Eveno**  
VP Performance – Refining & Chemicals  
TotalEnergies

11:50 - 12:10

**Cold bonding solutions for the repair and protection of assets**



**Paola Chávez**  
Technical Service Engineer  
Belzona, Inc.

12:10 - 12:30

**Company cost estimate method, performance and  
benchmark toward industry practice and international  
guidelines in contract sourcing**



**Erwin Indrawan**  
Project Manager  
MedcoEnergi

12:30 - 12:50

**Enhancing energy demand planning, project excellence and  
distributed energy resources in the downstream value chain**



**Gaurav Kumar**  
Executive, Network Engineering Department  
Tata Power Delhi Distribution Ltd

10-minute Q&amp;A

## Transforming the downstream landscape with gas and LNG processing technology

Category

LNG and Gas Processing Technology and Operations



## Location

Capital Suite 15

## Time

14:00 - 15:50

## Session Chairs



**Maruti Prasad**  
Superintendent  
Hydroprocessing Technical  
Services Department  
BAPCO



**Morgan Allen**  
Senior Principal  
Technologist  
W. R. Grace

14:00 - 14:20

**Meeting stringent sulphur emissions specs while decarbonising the tail-gas treating unit**



**Farhang Abdollahi**  
Regional Technology Director  
Gas Processing and Decarb  
Shell Catalysts and Technologies

14:20 - 14:40

**Failure caused by mercury embrittlement in MCHE (Main Cryogenic Heat Exchanger) in an LNG plant**



**Zeeshan Anwar**  
Lead Engineer  
Baker Hughes

14:40 - 15:00

**Extending Linde's StarLNG® family for sustainable LNG production**



**Florian Penner**  
Executive Director  
Head of Business Development & Sales  
Linde Engineering

15:00 - 15:20

**Enhancing efficiency and sustainability in LNG liquefaction: a novel cascade PLNG process utilising ammonia as a natural refrigerant**



**Mayar Tarek**  
Senior Gas and Petrochemicals Engineering Student  
Alexandria University

15:20 - 15:40

**Cryogenic PAEK - CT polymers for LNG & LH2 services**



**Christian Salvatori**  
Business Development Manager  
Energy & Industrial  
VICTREX

10-minute Q&amp;A

## Shaping a new era for refining and petrochemical operations

Category

Refining and Petrochemicals Technology and Operation



## Location

Capital Suite 20

## Time

09:30 - 11:20

## Session Chairs



**Fadi Mhaini MSc.**  
Managing Director  
Lummus Technology MENA



**Claudio Albanese**  
Head of Licensing and  
Technological Activities  
Eni Energy Evolutions

09:30 – 09:50

**A fresh approach towards residue upgradation and tackling crude flexibility**



**Sooraj Sasidharan Nair**  
Senior Process Engineer  
ADNOC Refining

09:50 – 10:10

**Integration of rotodynamic reactor (RDR) into existing steam crackers**



**Dr. Tuomas Ouni**  
Head of Process Development  
Coolbrook Oy

10:30 – 10:50

**A powerful partnership: generating value and clean products with transform materials' microwave plasma and Johnson Matthey's mercury-free VCM technology and catalyst**



**Dr. Paul Hudson**  
Business Development Director EMEA  
Transform Materials

10:50 – 11:10

**Study on the process routes and economic benefit of crude oil to chemicals**



**Yuan Zhou**  
Ph.D. Senior Engineer  
PetroChina Petrochemical Research Institute

10-minute Q&amp;A



## Driving a sustainable future with alternative fuels

Category

Alternative Fuels



## Location

Capital Suite 20

## Time

11:30 - 13:20

## Session Chairs



**Jiří Hájek**  
CEO  
Chairman of the  
Board of Directors  
Orlen UniCRE a.s.



**Dr. Madhukar Garg, FNAE**  
President R&D Refining and  
Petrochemicals  
Reliance Industries Limited

11:30 - 11:50

## Bio-naphtha market: towards a sustainable future



**Marco Verna**  
Head of Market, Downstream Consulting & Products  
Technip Energies

11:50 - 12:10

## ExxonMobil lower emissions fuels (LEF) technology



**Dr. David McNamara**  
Sr. Business Development Manager  
ExxonMobil Catalysts & Licensing

12:10 - 12:30

## A case study: renewable methanol from biomass gasification as marine transport fuel



**Soumya Jyoti Choudhury**  
Process Specialist  
Fluor Daniel India Pvt. Ltd

12:30 - 12:50

## Refinery corrosion challenges when converting from fossil fuel to renewable feedstock



**Barinder J S Ghai**  
Director Technical Marketing and  
New Business Development - EMEA  
Alleima

12:50 - 13:10

## Operational and catalytic strategies for co-processing renewable feeds in FCC



**Emmanouil Smaragdis**  
Account Manager  
BASF

10-minute Q&amp;A



## Developing frameworks for a hydrogen-powered industry

Category

Hydrogen Technology and Operations



## Location

Capital Suite 20

## Time

14:00 - 15:50

## Session Chairs



**Jiří Hájek**  
CEO  
Chairman of the  
Board of Directors  
Orlen UniCRE a.s.



**Dr. Malcolm Cook**  
Senior Vice President  
Chemicals & Process Technologies  
Middle East & Turkey  
thyssenkrupp

14:00 - 14:20

**Catalysing ammonia cracking: enhancing efficiency and sustainability**



**Rajesh Inder Singh**  
Catalyst Technical Lead  
KBR

14:20-14:40

**Blue hydrogen and ammonia: large scale with ultra-low carbon intensity**



**Yassir Ghiyati**  
Managing Director  
Topsoe EMEA

10-minute Q&amp;A



Optimising downstream operations with smart manufacturing and digital solutions

Category

Digital Transformation and Advanced Manufacturing Operations in Downstream



Location

Capital Suite 18

Time

09:30 - 11:20

Session Chairs



**Morgan Allen**  
Senior Principal Technologist  
W. R. Grace



**Ayman Ismaeil**  
Government & Institutional Relations - MEA  
Hitachi Energy

09:30 – 09:50  
**Industrial AI will disrupt the downstream industry**



**Ron Beck**  
Senior Director - Solutions and Industry Marketing  
Aspen Technology

09:50 – 10:10  
**Maximising solar steam generation efficiency and operational optimisation through advanced automation techniques**



**Dhiyab Al-Mahrezi**  
Thermal C&A Specialist  
Petroleum Development Oman

10:10 – 10:30  
**Revolutionising asset lifecycle management with point cloud-based digital twin technology in downstream operations**



**Esma Gulten**  
Cofounder and CEO  
Gizil GmbH

10:30 – 10:50  
**Pipeline leak detection systems: a software-based digital twin to preserve pipeline integrity**



**Muhammad Faisal**  
Principal Process Digitalisation Consultant  
INTECH Automation & Intelligence

10:50 – 11:10  
**Cybersecurity solutions for supply chain resilience: strengthening asset protection with Modbus gateway**



**Santanu Purohit**  
Team Lead Digital Business  
Bharat Petroleum Corporation Ltd

10-minute Q&A



## Optimising downstream operations with smart manufacturing and digital solutions

Category

Digital Transformation and Advanced Manufacturing Operations  
in Downstream

## Location

Capital Suite 18

## Time

11:30 - 13:20

## Session Chairs

**Saif Sheikh**Senior Director Solution  
Consulting  
Aspen Technology**Nada Al Ghamdi**Lead Lab Scientist and Group  
Leader of Chemical Analysis  
Group - Research and  
Analytical Services Department  
Saudi Aramco

11:30 - 11:50

**AI/ML-based hybrid model for resid fluid catalytic cracking (RFCC)****Dr. Biswanath Saha**Senior Specialist  
Process Modeling Engineer and Simulation  
ADNOC Refining Research Centre

11:50 - 12:10

**Refinery-wide process digital twin****Jitendra Chellani**Senior Staff Consultant  
KBC (A Yokogawa Company)

12:10 - 12:30

**Big data and its role in digital transformation within petrochemicals****Justin Blue**Senior Global Service Delivery Leader  
Baker Hughes

12:30 - 12:50

**Autonomous market research and summarisation powered by generative AI****Harisyam Manda**Senior Data Scientist  
OMV

12:50 - 13:10

**Acoustic anomaly detection in industrial rotary equipment using machine learning****R Ravi Kumar**Officer - Technical (APC & Digital)  
Hindustan Petroleum Corporation Limited

10-minute Q&amp;A



## Optimising downstream operations with smart manufacturing and digital solutions

Category

Digital Transformation and Advanced Manufacturing  
Operations in Downstream

## Location

Capital Suite 18

## Time

14:00 - 15:50

## Session Chairs



**Arunkumar Ayyalusamy**  
Director  
Lifecycle Services &  
Commercial Excellence - UAE  
Oman, Yemen & Lebanon  
Emerson



**Dr. Ahmad Salem**  
Industrial Solutions Regional  
Director - Africa  
Baker Hughes

14:00 - 14:20

The full story on how Saudi Aramco harmonised multiple predictive maintenance solutions



**Muhammad Ali Qureshi**  
Predictive Maintenance (PdM) Specialist  
Saudi Aramco

14:20 - 14:40

PEMS: a cost-effective solution for monitoring methane and other pollutant emission rates



**Brian Swanson**  
President  
CMC Solutions

14:40 - 15:00

A real-time link between live plant data and process simulation to improve safety, reliability, and efficiency in operations



**Mostafa Shehata**  
ProMax® Engineering Consultant  
Africa & Middle East  
Bryan Research and Engineering LLC

15:00 - 15:20

Humidity transport in insulation on pipes: field testing and numerical investigation



**Arve Martinsen**  
CEO and Managing Director  
KAEFER Blu

15:20 - 15:40

Hydrogen economy: achieving economic parity with digitalisation as a strategic weapon



**Faisal Baksh**  
Principal Solutions Consultant  
Aspen Technology

10-minute Q&amp;A

# ADIPEC

## Conferences

Spanning over **370 sessions**, ADIPEC will provide an inclusive stage for more than **1,800 speakers** to address the most urgent global energy challenges.

Under two conference streams -Strategic and Technical - and through 10 Leadership Roundtables, global experts will share their insights and approaches to achieving global energy objectives and drive economic growth and prosperity.

### Strategic Conferences

- **Strategic Conference** - The Strategic Conference will convene the energy world's most influential voices, offering diverse perspectives and accelerating action to deliver a just and orderly transition.
- **Decarbonisation Conference** - The Decarbonisation Conference will pool, insights and expertise from the entire global energy ecosystem, creating an inclusive forum dedicated to finding credible solutions that can deliver the energy system of the future, while rapidly decarbonising the energy system of today.
- **Hydrogen Conference** - The Hydrogen Conference recognises the critical role that low-carbon hydrogen solutions will play in delivering a balanced energy transition. Integrating hydrogen solutions at scale will have a transformational impact on decarbonising hard-to-abate sectors while also enabling the integration of renewables into the global energy mix by offering a stable, clean storage option.
- **Maritime & Logistics Conference** - The Maritime & Logistics Conference will convene pioneers, executives and regulators from the shipping world and beyond, fostering dialogues that drive cross-sector progress towards net-zero, shaping the future of global supply chains and reinforcing a collective commitment for both, people and the planet.

- **Finance & Investment Conference - New**

The Finance & Investment Conference leverages global capital markets to advance a lower-carbon, higher-growth world. The programme offers a convening platform for the finance and energy sectors to mobilise capital like never before.

- **Digitalisation & Technology Conference - New**

The Digitalisation & Technology Conference will unlock the opportunities presented by the integration and adoption of Fourth Industrial Revolution technologies, with a special focus on artificial intelligence (AI).

- **Voices of Tomorrow - New**

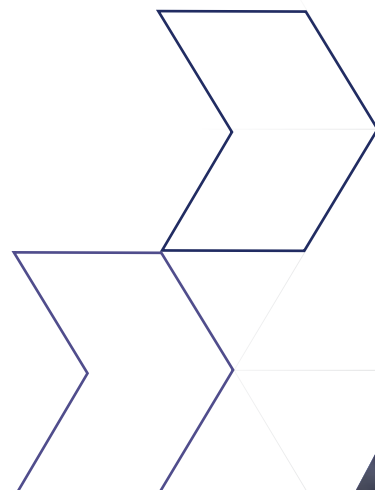
Voices of Tomorrow provides a meaningful convening platform for leaders from the energy industry, representatives from civil society and champions of diversity and youth, ensuring that the path towards a sustainable energy future is shaped by a truly global community.

### Technical Conferences

- **Technical Conference** - Organised by SPE, the Technical Conference brings together the brightest minds and technical experts from across the energy value chain to highlight the strategies and innovations accelerating the transformation of the energy system.
- **Downstream Technical Conference** - The Downstream Technical Conference will accelerate collaboration and partnerships, offering opportunities to gain insights into the transformative strategies and advancements in low-carbon solutions, digital transformation, advanced manufacturing, alternative fuels, project excellence and the wider downstream value chain.

### Leadership Roundtables

- At these invitation-only roundtables, decisionmakers who are spearheading the evolution of a responsible energy industry will engage in impactful discussions aimed at accelerating the energy transition. Each conversation will be enriched by specialised expertise and diverse perspectives, transforming discussions into tangible actions, insights into meaningful impacts, and commitments into reality.







Decarbonising. Faster. Together.  
Ministerial Panel

Hosts:  
John Chalcraft  
Ambassador of the United Kingdom  
to the State of Qatar



H.E. Sultan Mohamed bin Al Maktoum  
Minister of Energy and Infrastructure  
United Arab Emirates



H.E. Ali Ergil  
Minister of Energy and Natural Resources  
Turkey



H.E. Sebastian Lăzărescu  
Minister of Energy  
Romania



H.E. Hamdan bin Khalifa  
Minister of Energy  
Qatar





# Join the world's largest energy event

Building on 40 years of energy leadership, ADIPEC 2024, will enable innovation and accelerate action, exploring the intersection of energy and AI to drive the transition and deliver global impact.

Over four days, ADIPEC will convene 184,000+ attendees from varied communities, nations and industries, including the world's largest energy producers and consumers, as well as enablers in government, finance and technology, to find collective solutions to the energy trilemma.

Across more than 10 conferences and 370+ conference sessions, featuring 1,800+ diverse voices, including ministers, CEOs, academics, energy experts and youth, ADIPEC will address how collective energy innovation and action can empower lives and drive global prosperity.

The ADIPEC Exhibition, spanning 16 halls, will provide a platform where the energy world can demonstrate its high-impact solutions, build trusted relationships, and forge the game-changing, cross-sector partnerships needed to deliver secure, equitable and sustainable energy for all.





## ADIPEC in numbers

---

### Conference

**16,500+**  
Conference delegates

**1,800+**  
Conference speakers

**370+**  
Conference sessions

**10**  
Conferences

### Exhibition

**184,000+**  
Attendees

**2,200+**  
Exhibiting companies

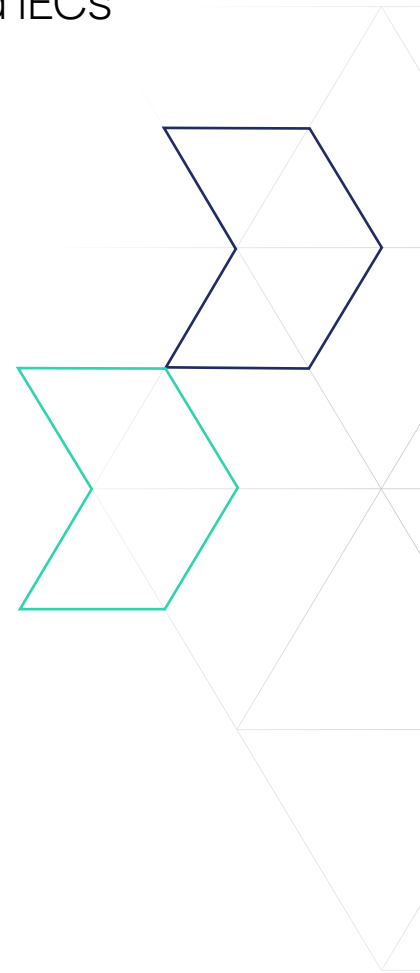
**54**  
NOCs, IOCs,  
NECs, and IECs

**30**  
Country pavilions

## Specialised industry areas at ADIPEC

---

- Energy<sup>ai</sup> by ADNOC
- Decarbonisation Zone
- Maritime & Logistics Zone
- Digitalisation Zone



# A truly global platform

ADIPEC convenes more than **184,000 energy professionals** from every corner of the world, empowering collective action, sparking innovation and driving partnerships needed to fast-track the energy transition.

## Attendee breakdown by region

Middle East

**39%**

Americas

**11%**

Asia

**22%**

Africa

**10%**

Europe

**18%**



**HALL 12**  
 Decarbonisation Accelerator

**CONFERENCE HALL A**  
 Manufacturing & Industrialisation  
 Strategy Conference  
 Maritime & Logistics Conference  
 ADIPEC 360 Overview  
 Technical Conference Plenary Sessions

**HALL 13 - MARINA**  
 Maritime & Logistics Zone  
 Maritime Innovation Club

**CONFERENCE HALL B**  
 Strategy Conference  
 Forum for Diversity, Equity  
 & Inclusion

**ADIPEC 2024 SALES STAND**  
 C10 - October Hall 1

**DELEGATE BAG COLLECTION**  
 October Hall 1-2

**ENERGY CONNECTS**  
 C10 - October Hall 1

**DELEGATE LUNCH**  
 October Hall 1

**MEZZANINE LEVEL**  
 C10 Hall 3-5

Decarbonisation, Technical Conference  
 Seminar - Capital Markets (C10-20)

• Investor Sessions  
 Technical Conference Seminar  
 October 1-10  
 Technical Conference  
 Coffee Break



**ADIPEC**

8-6 October 2024  
 Decarbonising, Fostering, Together.

Decarbonising, Fostering, Together.

Decarbonising, Fostering, Together.

Decarbonising, Fostering, Together.




























# A platform for international collaboration

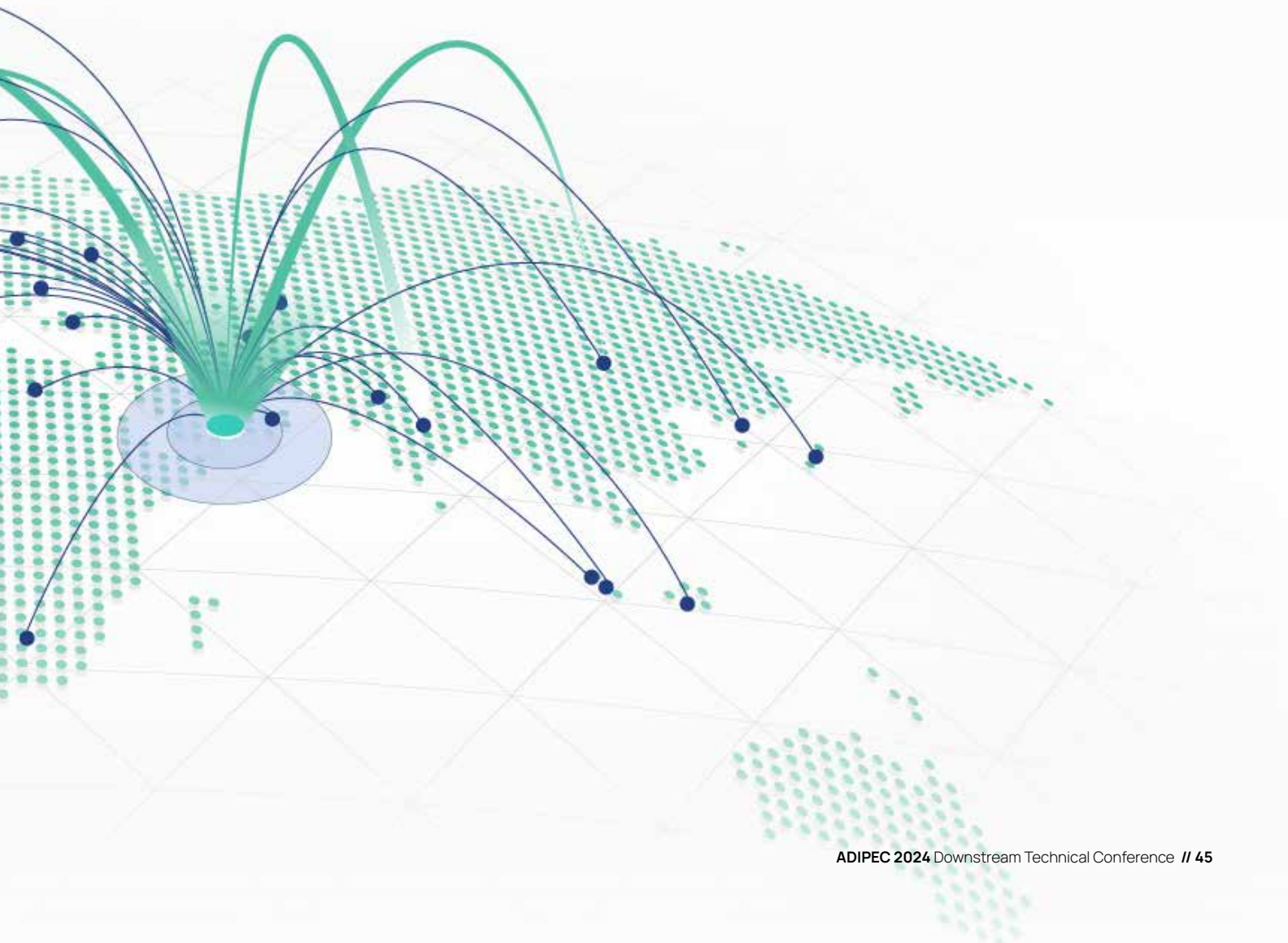
ADIPEC creates a unified, inclusive platform for the global energy ecosystem, with representation from around the world, enabling a deeper understanding of the unique and complex energy and climate challenges faced by communities across the globe.

The 30 dedicated country pavilions at ADIPEC will amplify diverse perspectives, spotlight innovative ideas and sustainable practices, provide a platform to forge game-changing global partnerships, and encourage unity around the common goal of delivering a fair and equitable transition.



# Country pavilions

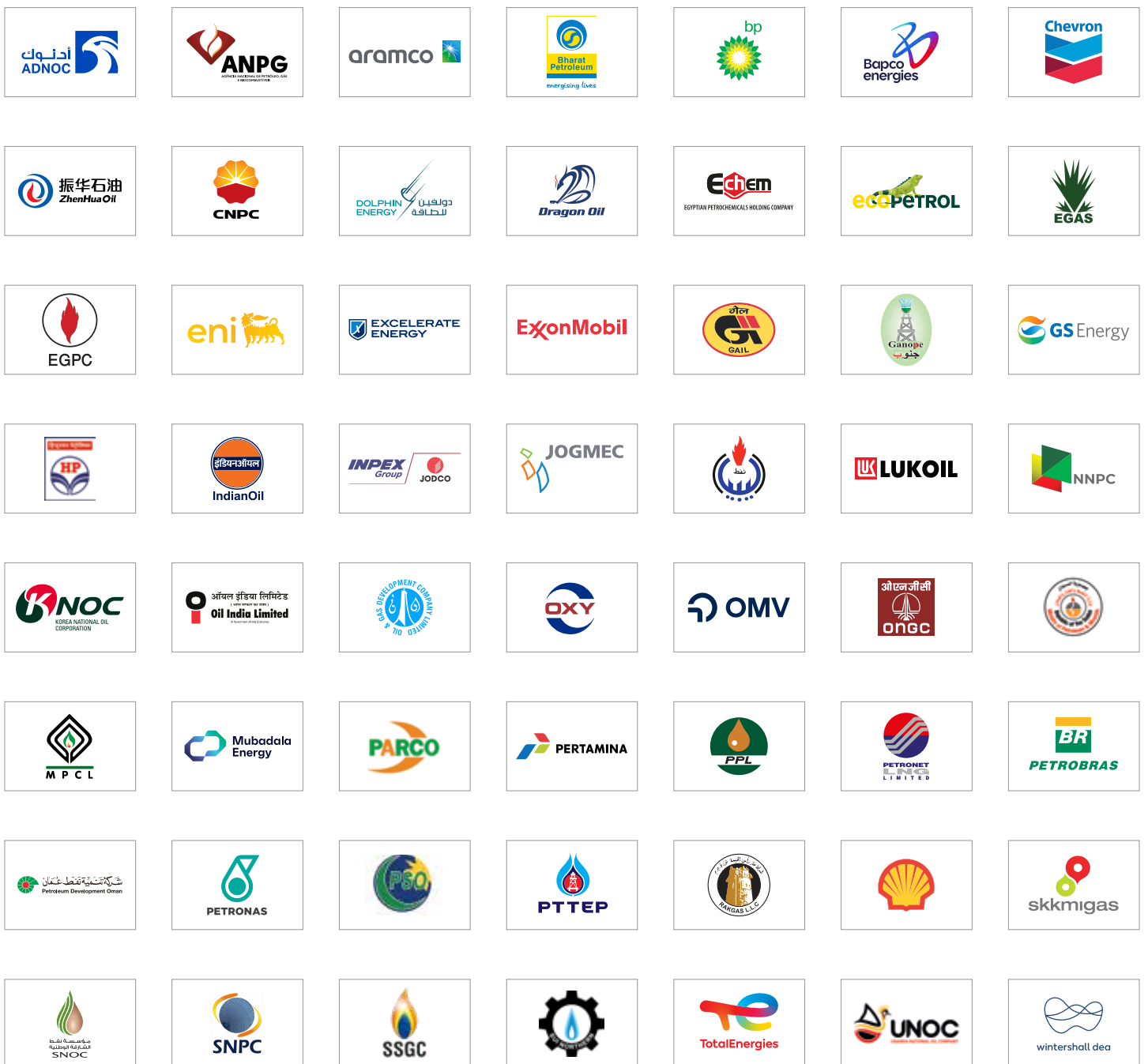
 Brazil	 China	 Germany
 Belgium	 Egypt	 India
 Canada	 France	 Indonesia
 Italy	 Malaysia	 Oman
 Japan	 Netherlands	 Pakistan
 Kazakhstan	 Norway	 Poland
 Romania	 South Africa	 Turkmenistan
 Scotland	 South Korea	 UK
 Singapore	 Türkiye	 USA
 Spain	 Algeria	





# A platform for engagement between leading NOCs, IOCs, NECs and IECs

ADIPEC welcomes the participation of more than 54 international and national energy companies, offering a platform to showcase the latest innovations, technologies and solutions driving energy progress. Participants include:





ADIPEC has evolved from an oil and gas event to a meeting of energy companies, consumers and companies with clean energy technologies to talk about tangible solutions and define the pathways against which we will address climate change issues.

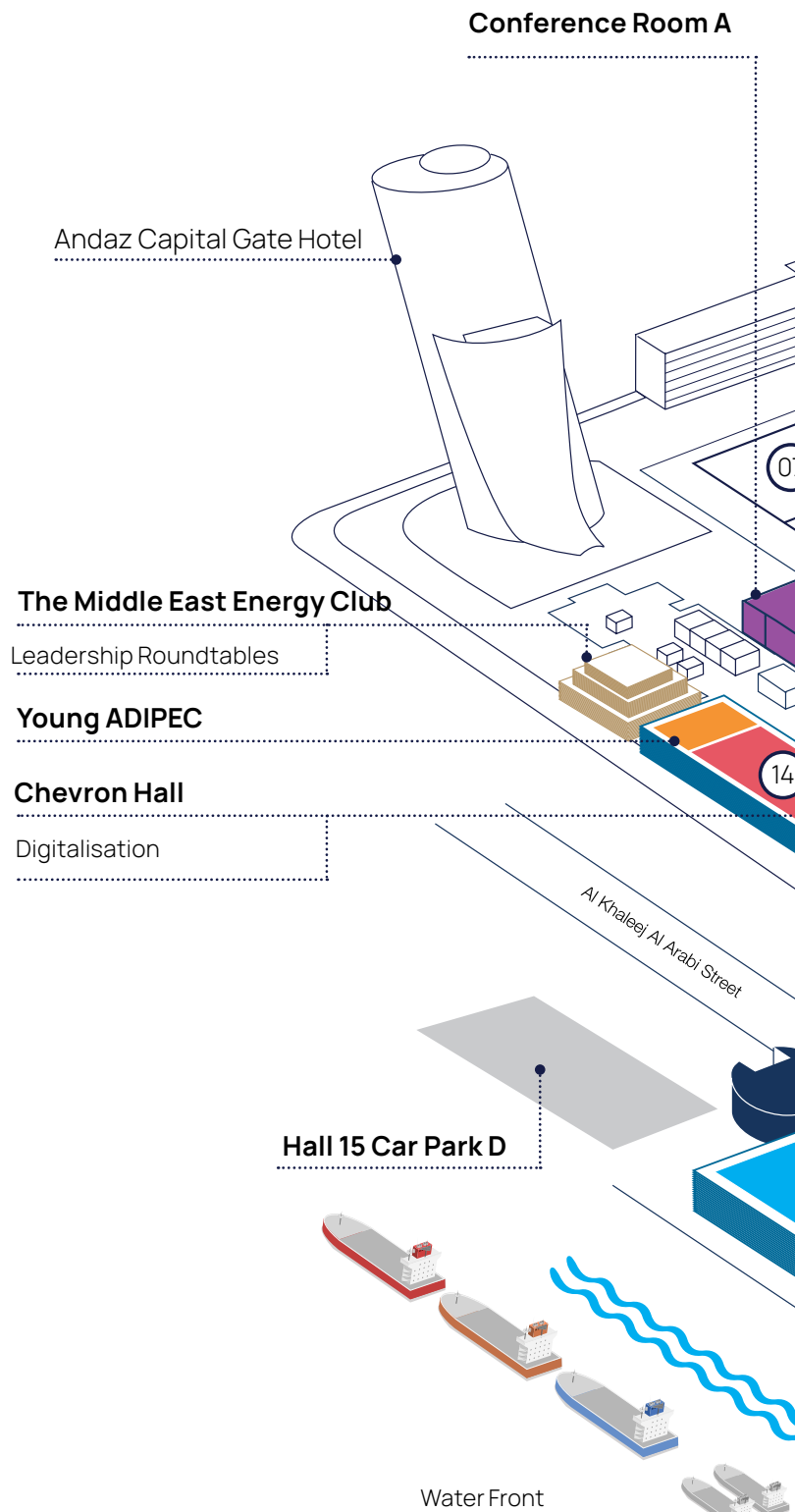
---

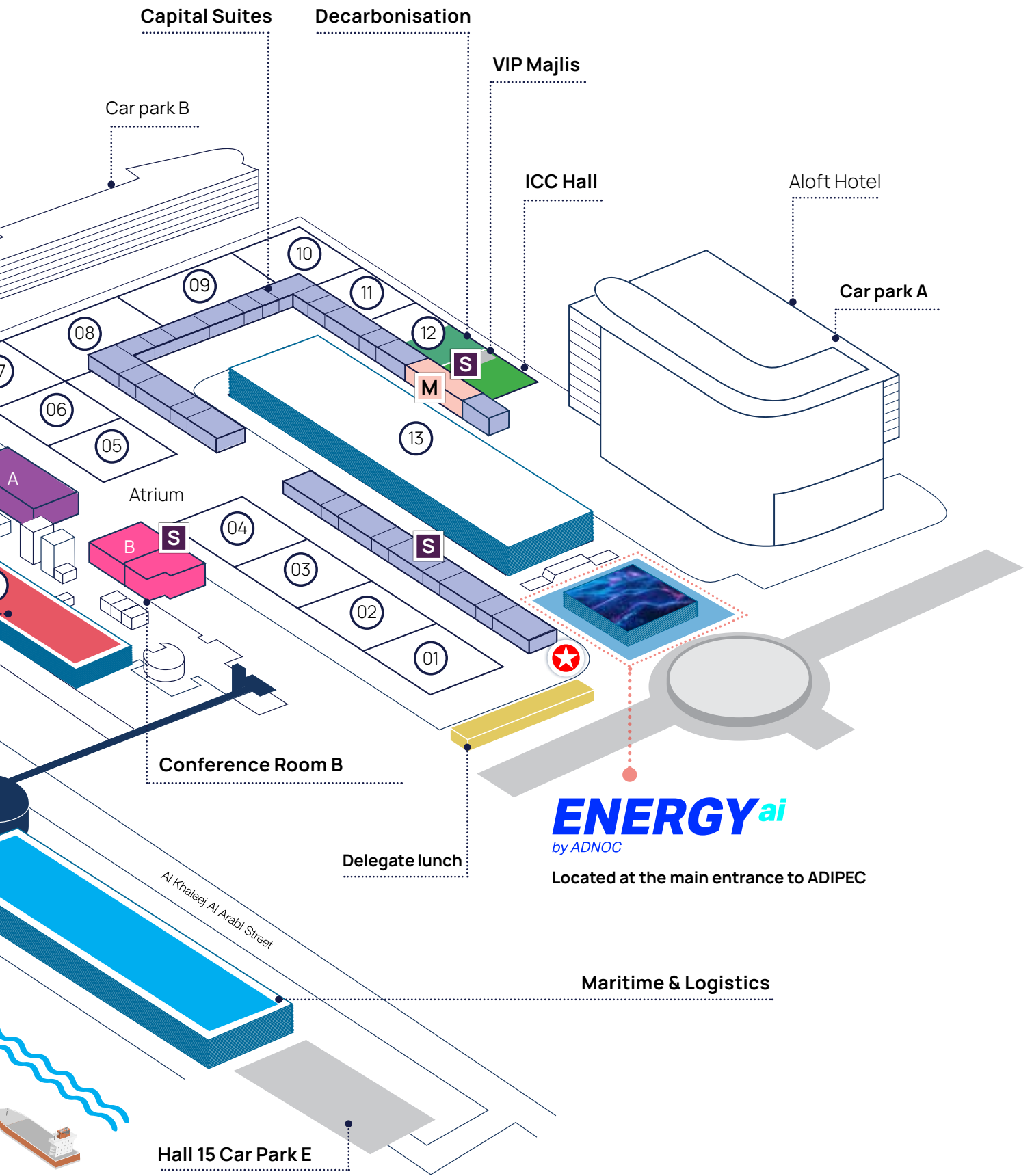
**Proscovia Nabbanja**  
CEO  
UNOC

# ADIPEC

## venue map

- 1 - 15 Exhibition Halls
- ★ ADIPEC Booking Stand
- ICC Hall
- The Middle East Energy Club
- Conference Room A
- Conference Room B
- Decarbonisation
- Maritime & Logistics
- Digitalisation
- Young ADIPEC
- Capital Suites - Mezzanine level
- Delegate lunch
- M Media Centre
- VIP Majlis - ICC ( Hall 12)
- S Speaker Room Locations
  - Near Conference Room B
  - Majlis
  - Capital Suite 6, Mezzanine Level (SPE speaker room)







# All Access Pass

Gain access to over 370 sessions through the All Access Conference Pass. Hear from for more than 1,800 speakers as they address the most urgent global energy challenges. Under two conference streams - Strategic and Technical - global experts will share their insights and approaches to achieving meaningful industry, climate, and business objectives.

Gain access to **ALL** of the following conferences

**US\$6,505**

## Strategic Conference

The Strategic Conference will convene the energy world's most influential voices, offering diverse perspectives and accelerating action to deliver a just and orderly transition.



Hydrogen Conference



Digitalisation & Technology Conference



Decarbonisation Conference



Voices of Tomorrow



Finance & Investment Conference



Maritime & Logistics Conference



Technical Conference



Downstream Technical Conference

Visit [www.adipec.com/conferences](http://www.adipec.com/conferences) or email [delegate@adipec.com](mailto:delegate@adipec.com) to learn more.

# Conference passes

## All Access Conference 4-day Pass

US\$6,505

Maximise your ADIPEC 2024 experience with the All Access pass. Gain exclusive entry to over 370 sessions across 10 conferences and hear over 1,800 ministers, policymakers, CEOs and innovators, offering unparalleled strategic and technical insights.

- ✓ Strategic Conference
- ✓ Hydrogen Conference
- ✓ Decarbonisation Conference
- ✓ Finance & Investment
- ✓ Maritime & Logistics Conference
- ✓ Digitalisation & Technology Conference
- ✓ Voices of Tomorrow
- ✓ Technical Conference
- ✓ **Downstream Technical Conference**
- ✓ Delegate lunches
- ✓ Access to exhibition halls

## Executive Pass

US\$2,995

Gain access to **ANY ONE** of the following Strategic Conferences

### Choose only one of the following

- Hydrogen Conference
- Decarbonisation Conference
- Finance & Investment

### Plus

- ✓ Delegate lunches
- ✓ Access to exhibition halls

## Innovator Pass

US\$1,065

Gain access to **ANY ONE** of the following Strategic Conferences

### Choose only one of the following

- Maritime & Logistics Conference
- Digitalisation & Technology
- Voices of Tomorrow

### Plus

- ✓ Delegate lunches
- ✓ Access to exhibition halls

## Technical Conference Pass

The ADIPEC Technical Conferences represent the largest technical meeting place for energy engineers and experts in the world. Gain invaluable insights, discuss the latest trends, innovations and best practices in the energy sector and enhance your skills and expertise at our technical conferences.

## 4-day Technical Conference Pass

US\$1,750

Gain access to **ANY ONE** of the following Technical Conferences

### Choose only one of the following

- Technical Conference
- Downstream Technical Conference**

### Plus

- ✓ Delegate lunches
- ✓ Access to exhibition halls

## 2-day Technical Conference Pass

US\$1,640

Gain access to the Technical Conferences

### Access to

- ✓ Technical Conference

### Plus

- ✓ Delegate lunches
- ✓ Access to exhibition halls

## SPE Members - Technical Pass

Preferential rates are available for SPE Members.

Contact us for further details at [delegate@adipec.com](mailto:delegate@adipec.com)





4-7 November 2024 Abu Dhabi, UAE

# Book your delegate pass

[www.adipec.com/conferences](http://www.adipec.com/conferences)

### For exhibition enquiries

✉ [sales@adipec.com](mailto:sales@adipec.com)

### Conference & delegate enquiries

✉ [delegate@adipec.com](mailto:delegate@adipec.com)

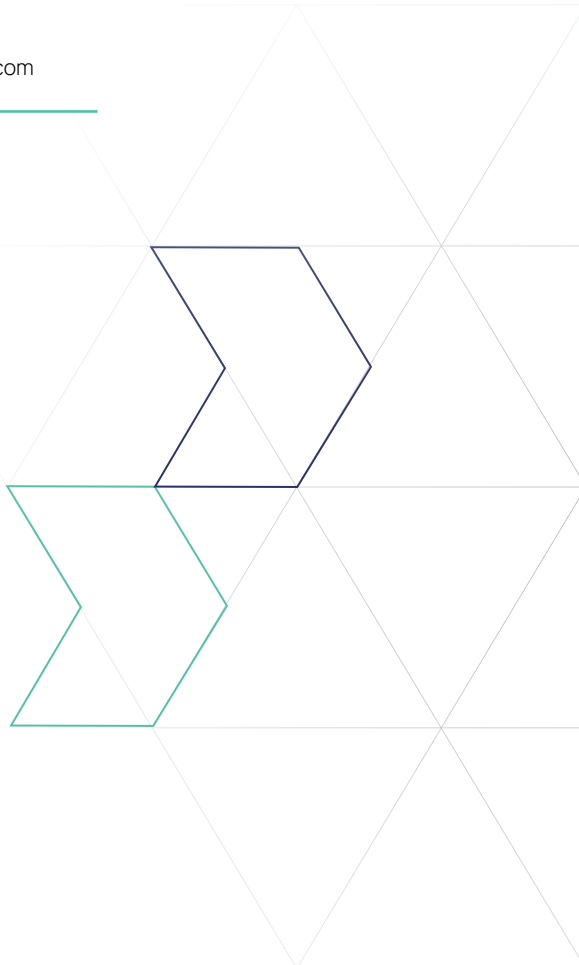
### Sponsorship enquiries

✉ [sponsorship@adipec.com](mailto:sponsorship@adipec.com)

### For general enquiries

✉ [enquiry@adipec.com](mailto:enquiry@adipec.com)

☎ +971 24 444 909



brought to you by:



@ADIPEC Exhibition and Conference

@ADIPECOfficial

@ADIPECOfficialpage

@adipec\_official

@ADIPEC Official