



Host

2-5 November 2026
Abu Dhabi, UAE

TECHNICAL CONFERENCE

Where engineering expertise drives
global energy progress



SPE Technical Programme
organised by



Downstream Technical Programme
organised by

dmg events

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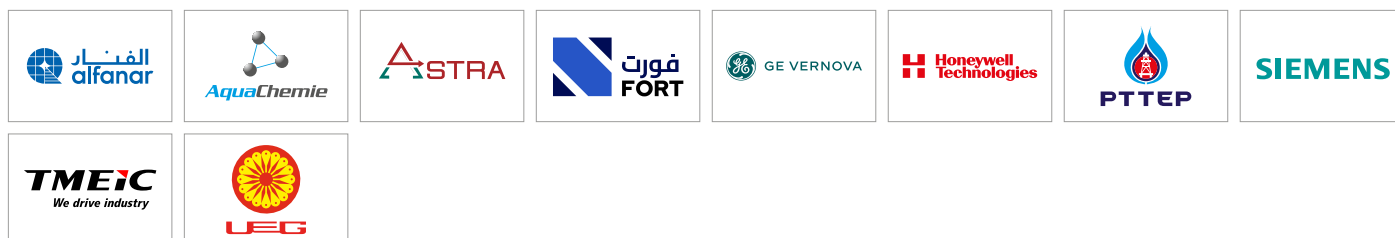
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WELCOME ADDRESS FROM THE TECHNICAL CONFERENCE CHAIRMAN

It is my great honour to introduce the ADIPEC 2026 Technical Conference, hosted by ADNOC. It's the energy industry's most important platform for strengthening the systems that underpin global energy security, stability, and long-term growth.

This year, the response has been exceptional, with over 7,200 submissions across both the Technical and Downstream programmes, including strong participation in the Downstream Programme.

Technical submissions reached a record high, with Digital Transformation and AI leading the way, a powerful signal of how quickly intelligent technologies are reshaping the way energy assets are designed, operated and optimised, whether here at ADNOC or across the wider industry.

The scale and breadth of this year's contributions point to one clear industry priority: building energy systems that are more resilient, more efficient and ready to perform in an increasingly complex world. From field development and operational excellence to advanced manufacturing, lower-carbon process technologies and workforce capability, the programme highlights the practical work now underway to strengthen performance across the full energy value chain.

Together, the Technical Programme and the Downstream Technical Programme, organised by SPE and DMG bring together engineers, operators, researchers, technology providers and industry leaders to exchange peer-reviewed knowledge, share field-proven solutions and advance practical innovation. They show how technical expertise can strengthen reliable operations, accelerate the deployment of intelligent systems and turn ambition into delivery at scale.

I want to extend my sincere thanks to every contributor, committee member and technical leader whose expertise continues to make this conference such an essential part of ADIPEC. Your work is helping advance the technologies, capabilities and operating models that will define the resilience and long-term performance of global energy systems.

We look forward to welcoming you to Abu Dhabi from 2–5 November. Together, we will explore the solutions, partnerships and technical leadership needed to strengthen energy systems for the future – and help shape the next chapter of our industry.



Haitham Al Jenaibi

EVP Development and Production (Gas)
ADNOC Upstream
ADIPEC 2026 Technical Conference
Chairman

WHERE TECHNICAL EXPERTISE ADVANCES ENERGY SYSTEMS

The Technical Conference brings together the specialists advancing the technologies, capabilities and delivery models needed to strengthen energy security, improve system performance and support energy addition at scale.

Across the SPE Technical Programme and the Downstream Technical Programme, engineers, operators, researchers, technology providers and industry leaders will share practical insight across the full energy value chain. From AI-enabled operations and advanced manufacturing to asset reliability, emissions reduction, process optimisation and workforce capability, the programme focuses on solutions being deployed to build more resilient, efficient and intelligent energy systems.

Through peer-reviewed knowledge exchange, real-world case studies and cross-sector collaboration, the Technical Conference connects expertise with practical delivery, supporting the decisions, infrastructure and innovations that will define long-term system resilience and performance.

Technical Conference in numbers

7,261

Submissions

1,300+

Technical
presentations

1,342

Submitting
companies

92

Submitting
countries

196

Technical
sessions

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largest Technical
Conference

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ENGINEERING PERFORMANCE. STRENGTHENING RESILIENCE.

Energy security depends on more than supply. It depends on the reliability, efficiency and resilience of the assets, technologies and people that produce, process, transport and deliver energy.

As energy systems become more interconnected and operational demands increase, technical delivery is central to maintaining performance, strengthening continuity and supporting long-term growth.

The ADIPEC Technical Conference brings together the engineering expertise, applied innovation and practical solutions needed to turn ambition into delivery across the full energy value chain.

TECHNICAL CONFERENCE THEMES

- Digital & intelligent energy systems
- Asset development, engineering & project delivery
- Refining, chemicals & integrated value chains
- Sustainability, decarbonisation & environmental stewardship
- Transition molecules & gas value chains
- Workforce & organisational transformation

Join the minds advancing energy system performance
Secure your Technical Pass to access both specialist programmes,
technical knowledge and the wider ADIPEC experience.

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WHAT YOU WILL GAIN

Technical insight that drives performance

Access engineering knowledge, technical papers and scalable solutions that improve efficiency, reduce emissions and support more resilient operations across the global energy value chain.

Global technical exchange

Benchmark approaches with engineers, operators, researchers and technology leaders, and learn how organisations are translating innovation into measurable performance.

High-value industry connections

Connect with peers, technical experts, solution providers and industry partners to exchange operational insight, share applied knowledge and build relationships that support future collaboration.

WHO YOU WILL MEET

- Engineers and technical specialists
- Operators and asset leaders
- Researchers, academia and emerging talent
- Digital, AI and technology experts
- Refining, petrochemical, LNG and gas processing professionals
- Project, supply chain and logistics leaders
- HSE, sustainability and decarbonisation experts
- Technology providers and solution partners

Secure your place at the world's largest technical gathering for energy experts

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AGENDA **AT A GLANCE**

MONDAY 2 NOVEMBER

AGENDA AT A GLANCE

SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME	DOWNSTREAM TECHNICAL PROGRAMME
10:30–12:00 – Capital Suite 1 Advances in Carbonate Stimulation and Rigless Intervention	13:00–14:30 – Capital Suite 10 Leadership Development	14:00–15:50 – Capital Suite 18 Building agile and resilient supply chains in a dynamic energy landscape
SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME	DOWNSTREAM TECHNICAL PROGRAMME
10:30–12:00 – Capital Suite 10 HSE, Process Safety Challenges, Technologies, and Innovative Practices	13:00–14:30 – Capital Suite 13 Autonomous and Remote Operations Challenges, Technologies, and Innovative Practices	14:00–15:50 – Capital Suite 20 Optimising efficiency and reliability in refining and petrochemical processes
SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME	TECHNICAL PANEL SESSION
10:30–12:00 – Capital Suite 13 Water Management and Energy Optimisation I	13:00–14:30 – Capital Suite 14 Frontiers in Subsurface Engineering: Academic Research on AI and Edge Intelligence	14:00–15:30 – Al Maa'rad Hall Energy resilience: Maintaining operational continuity under pressure
SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME
10:30–12:00 – Capital Suite 14 Intelligent Well Operations: Driving Intelligent Well Decisions via IoT Edge Data	13:00–14:30 – Capital Suite 16 Next-Gen Field Automation: Robotics, UAVs, and Autonomous Surveillance	15:30–17:00 – Capital Suite 1 CO2 and Gas EOR Applications
SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME
10:30–12:00 – Capital Suite 16 Industrial Data Governance and Cyber Security: Best Practices	13:00–14:30 – Capital Suite 19 Exploration, Appraisal, and De-Risking Strategies	15:30–17:00 – Capital Suite 10 Energy Transition and Mineral Exploration
SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME
10:30–12:00 – Capital Suite 19 From Resources to Reserves: Advanced Assessment and Production Forecasting	13:00–14:30 – Capital Suite 3 Best Practices in Flaring and Emission Reduction	15:30–17:00 – Capital Suite 13 Water Management and Energy Optimisation II
SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME
10:30–12:00 – Capital Suite 3 HSE Culture Transformation and Human Factors in HSE Performance Enhancement	13:00–14:30 – Capital Suite 4 Integrated Asset Modelling Optimisation and AI Applications	15:30–17:00 – Capital Suite 14 Human-AI Collaboration in Operations
SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME
10:30–12:00 – Capital Suite 4 Advances in Downhole Monitoring Technologies and Implementations	13:00–14:30 – Capital Suite 5 Advances in Carbonate Acid Stimulation	15:30–17:00 – Capital Suite 19 Drilling Challenges: Lessons Learnt and Optimisation Opportunities
SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME
10:30–12:00 – Capital Suite 5 Lower Completion New Technologies—Case Histories	13:00–14:30 – Capital Suite 7 Advances in Seismic Acquisition and Processing	15:30–17:00 – Capital Suite 3 Transforming Well Delivery: Advances in Integrity, Intervention, and Cementing I
SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME
10:30–12:00 – Capital Suite 7 Advances in Structural Geology and Geomechanics	13:00–14:30 – Capital Suite 8 Lithium and Critical Minerals Recovery	15:30–17:00 – Capital Suite 4 Integrated Field Development and CCUS Applications
SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME
10:30–12:00 – Capital Suite 8 Geothermal and Renewable Energy Expansion	13:00–14:30 – Marine Theatre Hall 16 Subsea Advance Technology	15:30–17:00 – Capital Suite 5 Advances in Gas/Water Shutoff Techniques
SPE TECHNICAL PROGRAMME	TECHNICAL PANEL SESSION	SPE TECHNICAL PROGRAMME
10:00–11:30 – Marine Theatre Hall 16 Subsea Engineering Infrastructure	13:00 – 13:40 – Capital Suite 20 Beyond Refining: Optimising downstream asset performance through process integration and operational flexibility	15:30–17:00 – Capital Suite 7 Advances in Seismic Reservoir Characterisation
SPE TECHNICAL PROGRAMME	DOWNSTREAM TECHNICAL PROGRAMME	SPE TECHNICAL PROGRAMME
11:30–13:00 – Marine Theatre Hall 16 Subsea IRM and Survey	14:00–15:50 – Capital Suite 15 Developing future-ready talent for an evolving downstream industry	15:30–17:00 – Capital Suite 8 New Batteries, Grids, and Energy Storage
SPE TECHNICAL PROGRAMME		SPE TECHNICAL PROGRAMME
13:00–14:30 – Capital Suite 1 Water Production Lifecycle Management and Case Studies		15:30–17:00 – Capital Suite 16 Innovations in Process Optimization, Energy Efficiency, and Plant Performance

TUESDAY 3 NOVEMBER

AGENDA AT A GLANCE

SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 1 Fluid Characterisation, PVT, and SCAL Case Studies	SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 8 Scaling the Hydrogen Economy	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 19 Emerging Technologies for Improved and Enhanced Recovery
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 10 Maintenance 4.0, Reliability, Integrity, Availability, and Technologies I	DOWNSTREAM TECHNICAL PROGRAMME 09:30–11:20 – Capital Suite 15 Maximising value creation through techno-economic analysis and strategic decision-making	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 3 Barriers, Controls, and Risk Management
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 13 Integrated Solutions for Production Growth and Operational Resilience	DOWNSTREAM TECHNICAL PROGRAMME 09:30–11:20 – Capital Suite 18 Enabling project excellence through innovation and lifecycle optimisation	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 4 Directional Drilling, Drilling Dynamics, and Geosteering
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 14 AI-Driven Predictive Maintenance	DOWNSTREAM TECHNICAL PROGRAMME 09:30–11:20 – Capital Suite 20 Enhancing resource efficiency and circular solutions in downstream operations	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 5 Upper Completion and Artificial Lift Technologies
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 16 Optimising Completions: Challenges and Best Practices	TECHNICAL PANEL SESSION 09:30–11:00 – AI Maa'ed Hall Scaling unconventional: Unlocking the next frontier of growth from resource potential to commercial reality	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 7 Applications of AI in Geoscience I
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 19 Geomechanics and Subsurface Technologies for Smarter Well Placement	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 1 Innovative Oil Development Plans and Case Studies I	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 8 Hydrogen Storage and Risk Management
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 3 Innovation in Environmental Protection	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 10 Reskilling and Upskilling Programmes	SPE TECHNICAL PROGRAMME 10:30–12:00 – Marine Theatre Hall 16 Marine Engineering and Offshore Installation
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 4 Chemical and Advanced EOR Applications I	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 13 Well Integrity and Subsurface Management I	DOWNSTREAM TECHNICAL PROGRAMME 11:30–13:20 – Capital Suite 15 Delivering practical pathways to decarbonise downstream operations
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 5 Integrated Well Stimulation: Design, Execution, and Evaluation	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 14 AI at Scale on Above Surface Facilities (Operational and Production Excellence)	DOWNSTREAM TECHNICAL PROGRAMME 11:30–13:20 – Capital Suite 18 Optimising efficiency and reliability in refining and petrochemical processes
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 7 Geoscience Technology Innovation	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 16 Agentic AI and ML in Action (Use Cases)	DOWNSTREAM TECHNICAL PROGRAMME 11:30–13:20 – Capital Suite 20 Advancing lower-carbon emissions reduction through scalable carbon capture and utilisation technologies

TUESDAY 3 NOVEMBER

AGENDA AT A GLANCE

TECHNICAL PANEL SESSION 11:30–13:00 – Al Maa’red Hall Reimagining brownfields: Driving efficiency, recovery, and returns through intelligent innovation	SPE TECHNICAL PROGRAMME 13:00–14:30 – Capital Suite 5 Transforming Well Delivery: Advances in Integrity, Intervention & Cementing II	SPE TECHNICAL PROGRAMME 15:30–17:00 – Capital Suite 13 Well Integrity and Subsurface Management II
SPE TECHNICAL PROGRAMME 13:00–14:30 – Capital Suite 1 Advancement in Field Development Related Well Completions and Artificial Lift Applications	SPE TECHNICAL PROGRAMME 13:00–14:30 – Capital Suite 7 Advances in Regional Geology and Sequence Stratigraphy	SPE TECHNICAL PROGRAMME 15:30–17:00 – Capital Suite 14 Agentic AI for Closed-Loop Operations and Decision Automation: Integrity Downstream
SPE TECHNICAL PROGRAMME 13:00–14:30 – Capital Suite 10 Wellbeing and Flexible Work Environments	SPE TECHNICAL PROGRAMME 13:00–14:30 – Capital Suite 8 Subsurface Carbon Storage	SPE TECHNICAL PROGRAMME 15:30–17:00 – Capital Suite 16 LLMs for Operational Intelligence and Engineering Excellence
SPE TECHNICAL PROGRAMME 13:00–14:30 – Capital Suite 13 Maintenance 4.0, Reliability, Integrity, Availability, and Technologies II	SPE TECHNICAL PROGRAMME 13:00–14:30 – Marine Theatre Hall 16 Energy Transition in Marine and Offshore Logistics	SPE TECHNICAL PROGRAMME 15:30–17:00 – Capital Suite 19 Unconventional Operational Excellence I
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 16 Optimising Completions: Challenges and Best Practices	DOWNSTREAM TECHNICAL PROGRAMME 14:00–15:50 – Capital Suite 15 Enabling project excellence through innovation and lifecycle optimisation	SPE TECHNICAL PROGRAMME 15:30–17:00 – Capital Suite 3 Best Practices in Drilling Operations—Case Histories I
SPE TECHNICAL PROGRAMME 13:00–14:30 – Capital Suite 14 Agentic AI for Closed-Loop Operations and Decision Automation: Subsurface	DOWNSTREAM TECHNICAL PROGRAMME 14:00–15:50 – Capital Suite 18 Strengthening LNG and gas processing systems for resilient operations	SPE TECHNICAL PROGRAMME 15:30–17:00 – Capital Suite 4 Innovative Oil Development Plans and Case Studies II
SPE TECHNICAL PROGRAMME 13:00–14:30 – Capital Suite 16 Agentic AI for Closed-Loop Operations and Decision Automation: Operation	DOWNSTREAM TECHNICAL PROGRAMME 14:00–15:50 – Capital Suite 20 Leveraging AI, automation and advanced analytics for smarter downstream operations	SPE TECHNICAL PROGRAMME 15:30–17:00 – Capital Suite 5 Sustainable Drilling Engineering and Advanced Rig Technologies
SPE TECHNICAL PROGRAMME 13:00–14:30 – Capital Suite 19 From Concept to Execution: Integrated Project Management and Planning	TECHNICAL PANEL SESSION 14:00–15:30 – Al Maa’red Hall Unlocking gas supply: Technical pathways for stranded resources and challenging developments	SPE TECHNICAL PROGRAMME 15:30–17:00 – Capital Suite 7 Applications of AI in Geoscience II
SPE TECHNICAL PROGRAMME 13:00–14:30 – Capital Suite 3 Predictive Risk Management and Operational Safety Performance	SPE TECHNICAL PROGRAMME 15:30–17:00 – Capital Suite 1 Innovative Gas Development Plans and Challenges	SPE TECHNICAL PROGRAMME 15:30–17:00 – Capital Suite 8 Next Generation Carbon Capture
SPE TECHNICAL PROGRAMME 13:00–14:30 – Capital Suite 4 Chemical and Advanced EOR Applications II	SPE TECHNICAL PROGRAMME 15:30–17:00 – Capital Suite 10 AI, Advanced Process Control, and Optimisation for LNG and Operations	

Register as a delegate and gain access to four days of technical insight
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WEDNESDAY 4 NOVEMBER

AGENDA AT A GLANCE

SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 1 Breakthrough Field Development Technologies to Unlock Opportunities and Maximise Recovery Factors I	SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 8 Integrated Carbon Management	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 19 Unconventional Operational Excellence II
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 10 Digital Technologies for Asset Integrity, Inspection, and Reliability	DOWNSTREAM TECHNICAL PROGRAMME 09:30–11:20 – Capital Suite 15 Leveraging AI, automation and advanced analytics for smarter downstream operations	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 3 Preventing Major Accidents and Lessons Learnt
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 13 Well Integrity and Subsurface Management III	DOWNSTREAM TECHNICAL PROGRAMME 09:30–11:20 – Capital Suite 18 Optimising efficiency and reliability in refining and petrochemical processes	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 4 Low Carbon Asset and Transformation
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 14 LLMs for Knowledge Intelligence and Data Transformation	DOWNSTREAM TECHNICAL PROGRAMME 09:30–11:20 – Capital Suite 20 Delivering practical pathways to decarbonise downstream operations	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 5 Transforming Well Delivery: Advances in Integrity, Intervention, and Cementing III
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 16 End-to-End Closed-Loop Optimisation	TECHNICAL PANEL SESSION 09:30–11:00 – Al Maa'ed Hall AUTONOMOUS OILFIELDS: FROM INSIGHT TO ACTION WITH AI: When Intelligent Systems Transform Decision-Making into Execution	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 7 New Exploration Plays and Studies of Petroleum Systems
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 19 Applications of AI and Data Sciences	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 1 Oil Field Development Challenges: Marginal Fields, Complex Reservoirs, Mature Fields, and Sour Oil I	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 8 Digital Decarbonisation
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 3 Best Practices in Drilling Operations—Case Histories II	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 10 Technology and HR Innovations	SPE TECHNICAL PROGRAMME 10:30–12:00 – Marine Theatre Hall 16 Marine Logistics in EPCI
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 4 Advances in Reservoir Modelling and Simulation: Uncertainty Analysis, Challenges, and Opportunities I	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 13 Facility Management and Asset Performance Optimisation: Constraints and Technologies I	DOWNSTREAM TECHNICAL PROGRAMME 11:30–13:20 – Capital Suite 15 Enabling project excellence through innovation and lifecycle optimisation
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 5 Drilling Fluids I	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 14 Autonomous Operations and Decision Intelligence	DOWNSTREAM TECHNICAL PROGRAMME 11:30–13:20 – Capital Suite 18 Maximising value creation through techno-economic analysis and strategic decision-making
SPE TECHNICAL PROGRAMME 08:30–10:00 – Capital Suite 7 Advances in Basin Evolution Modelling	SPE TECHNICAL PROGRAMME 10:30–12:00 – Capital Suite 16 Physics-Informed AI and Machine Learning for Autonomous Production Optimisation and Reservoir Management I	DOWNSTREAM TECHNICAL PROGRAMME 11:30–13:20 – Capital Suite 20 Strengthening LNG and gas processing systems for resilient operations

WEDNESDAY 4 NOVEMBER

AGENDA AT A GLANCE

TECHNICAL PANEL SESSION

11:30–13:00 – Al Maa’red Hall
Developing AI-native technical capability: Building the skills, tools and workflows that enable intelligent operations

SPE TECHNICAL PROGRAMME

13:00–14:30 – Capital Suite 1
Breakthrough Field Development Technologies to Unlock Opportunities and Maximise Recovery Factors II

SPE TECHNICAL PROGRAMME

13:00–14:30 – Capital Suite 10
From Detection to Prevention: Next-Generation Integrity Management Technologies

SPE TECHNICAL PROGRAMME

13:00–14:30 – Capital Suite 13
Well Integrity and Subsurface Management IV

SPE TECHNICAL PROGRAMME

13:00–14:30 – Capital Suite 14
Multi-Agent AI and Enterprise Intelligence for Upstream and Facilities Optimisation

SPE TECHNICAL PROGRAMME

13:00–14:30 – Capital Suite 16
Physics-Informed AI and Machine Learning for Autonomous Production Optimisation and Reservoir Management II

SPE TECHNICAL PROGRAMME

13:00–14:30 – Capital Suite 19
Advanced Artificial Lift Technologies and Optimisation Solutions

SPE TECHNICAL PROGRAMME

13:00–14:30 – Capital Suite 3
Artificial Intelligence and Technologies to Improve HSE Performance

SPE TECHNICAL PROGRAMME

13:00–14:30 – Capital Suite 4
Role of Geoscience in Uncertainty Assessment

SPE TECHNICAL PROGRAMME

13:00–14:30 – Capital Suite 5
Drilling Fluids II

SPE TECHNICAL PROGRAMME

13:00–14:30 – Capital Suite 7
Role of Geoscience in Risk Management

SPE TECHNICAL PROGRAMME

13:00–14:30 – Capital Suite 8
Offshore Energy Transformation

SPE TECHNICAL PROGRAMME

13:00–14:30 – Marine Theatre Hall 16
AI and Digital Optimisation in Marine Offshore Operations

DOWNSTREAM TECHNICAL PROGRAMME

14:00–15:50 – Capital Suite 15
Accelerating hybrid energy systems through hydrogen and renewables

DOWNSTREAM TECHNICAL PROGRAMME

14:00–15:50 – Capital Suite 18
Leveraging AI, automation and advanced analytics for smarter downstream operations

DOWNSTREAM TECHNICAL PROGRAMME

14:00–15:50 – Capital Suite 20
Scaling biofuels and e-fuels for sustainable fuel production

TECHNICAL PANEL SESSION

14:00–15:30 – Hall A
ASSET & HSE RESILIENCE: Proactively Preventing Major Events Through Integrity, Risk, and Human Performance Excellence

SPE TECHNICAL PROGRAMME

15:00–16:30 – Capital Suite 1
Advances in Reservoir Modelling and Simulation: Uncertainty Analysis, Challenges, and Opportunities II

SPE TECHNICAL PROGRAMME

15:00–16:30 – Capital Suite 10
Thermal Efficiency Innovations and Circular Solutions

SPE TECHNICAL PROGRAMME

15:00–16:30 – Capital Suite 13
Facility Management and Asset Performance Optimisation: Constraints and Technologies II

SPE TECHNICAL PROGRAMME

15:00–16:30 – Capital Suite 14
AI and Machine Learning for Real-Time Drilling Intelligence, Formation Evaluation, and Completions Optimisation

SPE TECHNICAL PROGRAMME

15:00–16:30 – Capital Suite 16
Engineering Solutions for Corrosion Control and Asset Life Extension

SPE TECHNICAL PROGRAMME

15:00–16:30 – Capital Suite 19
Innovations in Hydraulic Fracture Modelling and Design Optimisation I

SPE TECHNICAL PROGRAMME

15:30–17:00 – Capital Suite 3
Transforming Well Delivery: Advances in Integrity, Intervention, and Cementing IV

SPE TECHNICAL PROGRAMME

15:00–16:30 – Capital Suite 4
Oil Field Development Challenges: Marginal Fields, Complex Reservoirs, Mature Fields, and Sour Oil II

SPE TECHNICAL PROGRAMME

15:00–16:30 – Capital Suite 5
Data-Driven Well Delivery: Scalable Automation Architectures and Predictive Analytics

SPE TECHNICAL PROGRAMME

15:00–16:30 – Capital Suite 7
Innovations in Rock Typing and Reservoir Characterisation

SPE TECHNICAL PROGRAMME

15:00–16:30 – Capital Suite 8
Sustainable Fuel Pathways

SPE TECHNICAL PROGRAMME

15:00–16:30 – Marine Theatre Hall 16
AI and Data Analytical Solutions in Maritime Offshore Logistics

Register as a delegate
and gain access to four
days of technical insight
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THURSDAY 5 NOVEMBER

AGENDA AT A GLANCE

DOWNSTREAM TECHNICAL PROGRAMME

09:30-11:20 – Capital Suite 15
Enabling project excellence through innovation and lifecycle optimisation

DOWNSTREAM TECHNICAL PROGRAMME

09:30-11:20 – Capital Suite 18
Enhancing resource efficiency and circular solutions in downstream operations

DOWNSTREAM TECHNICAL PROGRAMME

09:30-11:20 – Capital Suite 20
Leveraging AI, automation and advanced analytics for smarter downstream operations

SPE TECHNICAL PROGRAMME

10:00-11:30 – Marine Theatre Hall 16
Digital Transformation in Maritime and Offshore Logistics

SPE TECHNICAL PROGRAMME

10:30-12:00 – Capital Suite 1
Oil Field Development Challenges: Marginal Fields, Complex Reservoirs, Mature Fields, and Sour Oil III

SPE TECHNICAL PROGRAMME

10:30-12:00 – Capital Suite 10
Scaling Digital Twins: From Asset Models to Enterprise Orchestration

SPE TECHNICAL PROGRAMME

10:30-12:00 – Capital Suite 13
Advanced Technologies for Production, Well, and Pipeline Integrity

SPE TECHNICAL PROGRAMME

10:30-12:00 – Capital Suite 14
AI-Driven Reservoir Simulation, History Matching, and Autonomous Field Development Optimisation I

SPE TECHNICAL PROGRAMME

10:30-12:00 – Capital Suite 16
Enhancing Measurement Accuracy Through Analytics, Modelling, and Automation

SPE TECHNICAL PROGRAMME

10:30-12:00 – Capital Suite 3
Managing Occupational Health Risk, Mental Health, and Wellbeing

SPE TECHNICAL PROGRAMME

10:30-12:00 – Capital Suite 4
Innovative Gas Development Plans and Case Studies

SPE TECHNICAL PROGRAMME

10:30-12:00 – Capital Suite 19
Unconventional Advanced Subsurface Modelling

SPE TECHNICAL PROGRAMME

10:30-12:00 – Capital Suite 5
Drilling Optimisation I

SPE TECHNICAL PROGRAMME

10:30-12:00 – Capital Suite 7
Data-Driven Analytics and Their Application in Geosciences

SPE TECHNICAL PROGRAMME

10:30-12:00 – Capital Suite 8
ESG, Sustainability, and Carbon Value

DOWNSTREAM TECHNICAL PROGRAMME

11:30-13:20 – Capital Suite 15
Optimising efficiency and reliability in refining and petrochemical processes I

DOWNSTREAM TECHNICAL PROGRAMME

11:30-13:20 – Capital Suite 18
Delivering practical pathways to decarbonise downstream operations

DOWNSTREAM TECHNICAL PROGRAMME

11:30-13:20 – Capital Suite 20
Accelerating hybrid energy systems through hydrogen and renewables

SPE TECHNICAL PROGRAMME

11:30-13:00 – Marine Theatre Hall 16
Offshore Transport and Logistics Optimisation

SPE TECHNICAL PROGRAMME

12:00-13:00 – Capital Suite 19
Innovations in Hydraulic Fracture Modelling and Design Optimisation II

SPE TECHNICAL PROGRAMME

13:00-14:30 – Capital Suite 1
Gas Field Development Challenges: Sour Gas, HP/HT Reservoirs, and Complex Gas Reservoirs

SPE TECHNICAL PROGRAMME

13:00-14:30 – Capital Suite 10
Diversity, Culture, and Inclusion Analytics

SPE TECHNICAL PROGRAMME

13:00-14:30 – Capital Suite 13
Facility Management and Asset Performance Optimisation: Constraints and Technologies III

SPE TECHNICAL PROGRAMME

13:00-14:30 – Capital Suite 14
AI-Driven Artificial Lift Optimisation: Field-Proven Intelligence Across Production Systems

SPE TECHNICAL PROGRAMME

13:00-14:30 – Capital Suite 16
AI-Driven Waterflood Optimisation and Reservoir Surveillance

SPE TECHNICAL PROGRAMME

13:00-14:30 – Capital Suite 3
Preventing Major Accidents and Lessons Learnt

SPE TECHNICAL PROGRAMME

13:00-14:30 – Capital Suite 4
Well Design Efficiency

SPE TECHNICAL PROGRAMME

13:00-14:30 – Capital Suite 5
Drilling Optimisation II

SPE TECHNICAL PROGRAMME

13:00-14:30 – Capital Suite 7
Advance Technologies in Open and Cased Logging

SPE TECHNICAL PROGRAMME

13:00-14:30 – Capital Suite 8
Hydrogen and Low Carbon Fuels

THURSDAY 5 NOVEMBER

AGENDA AT A GLANCE

SPE TECHNICAL PROGRAMME

13:00-14:30 – Marine Theatre Hall 16
Sustainability and Decarbonisation in Marine and Offshore Logistics

DOWNSTREAM TECHNICAL PROGRAMME

14:00-15:50 – Capital Suite 15
Leveraging AI, automation and advanced analytics for smarter downstream operations

DOWNSTREAM TECHNICAL PROGRAMME

14:00-15:50 – Capital Suite 18
Enabling project excellence through innovation and lifecycle optimisation

DOWNSTREAM TECHNICAL PROGRAMME

14:00-15:50 – Capital Suite 20
Maximising value creation through techno-economic analysis and strategic decision-making

SPE TECHNICAL PROGRAMME

15:00-16:30 – Capital Suite 1
Digital Reservoirs Solutions and Data-Driven Applications for Field Development

SPE TECHNICAL PROGRAMME

15:00-16:30 – Capital Suite 10
Innovations in Flow Assurance, Production Chemistry, and Deposition Control

SPE TECHNICAL PROGRAMME

15:00-16:30 – Capital Suite 13
Physics-Based and AI-Driven Approaches to Production System Optimisation

SPE TECHNICAL PROGRAMME

15:00-16:30 – Capital Suite 14
AI-Driven Reservoir Simulation, History Matching, and Autonomous Field Development Optimisation II

SPE TECHNICAL PROGRAMME

15:00-16:30 – Capital Suite 16
AI for Carbon Management, CCUS, and Emission Intelligence

SPE TECHNICAL PROGRAMME

15:00-16:30 – Capital Suite 19
Unconventional Operational Excellence III

SPE TECHNICAL PROGRAMME

15:00-16:30 – Capital Suite 3
Real-Time Applications

SPE TECHNICAL PROGRAMME

15:00-16:30 – Capital Suite 4
Oil Field Development Challenges: Marginal Fields, Complex Reservoirs, Mature Fields, and Sour Oil IV

SPE TECHNICAL PROGRAMME

15:00-16:30 – Capital Suite 5
Advanced Drilling, Completions, and Well Delivery: Drilling Optimisation III

SPE TECHNICAL PROGRAMME

15:00-16:30 – Capital Suite 7
Static Geological Modelling and Uncertainty Analysis

SPE TECHNICAL PROGRAMME

15:00-16:30 – Capital Suite 8
Energy Efficiency and Electrification

SPE TECHNICAL PROGRAMME

15:00-16:30 – Marine Theatre Hall 16
HSE and Integrity of Offshore and Marine Installations I

4-DAY PASS

TECHNICAL PASS

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US\$2,030

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- SPE Technical Programme
- Downstream Technical Programme

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- Access to 4 specialised zones
- Access to innovation sessions
- Access to technical papers post event

TECHNICAL CONFERENCE PANEL SESSIONS

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DAY 1: MONDAY 2 NOVEMBER 2026

Technical Panel Session 1

14:00 - 15:30

Location: Al Maa'red Hall

Energy Resilience

Maintaining operational continuity under pressure

This session explores how operators strengthen operational resilience through intelligent monitoring, predictive maintenance and automation. It will examine how AI-enabled surveillance, condition monitoring and real-time production optimisation improve equipment reliability, reduce unplanned downtime and support continuous operations across upstream assets. The discussion will focus on integrating digital technologies into asset integrity, maintenance and production workflows to enhance operational continuity and reduce production deferment. Case studies will demonstrate practical applications that improve reliability, safety and operational performance in complex operating environments.

DAY 2: TUESDAY 3 NOVEMBER 2026

Technical Panel Session 2

09:30 - 11:00

Location: Al Maa'red Hall

Scaling Unconventionals

Unlocking the next frontier of growth from resource potential to commercial reality

Focusing on unconventional oil and gas developments, this session examines the technical requirements for progressing resources towards sustained production. It will address manufacturing-based development models, advanced completions, water-efficient operations, drilling optimisation and production performance. The panel will explore how integrated subsurface characterisation, well design and surface infrastructure support efficient field development and operational consistency. Emphasis will be placed on engineering innovation, standardisation and execution practices that improve development efficiency across unconventional assets.

Technical Panel Session 3

11:30 - 13:00

Location: Al Maa'red Hall

Reimagining Brownfields

Driving efficiency, recovery, and returns through intelligent innovation

This session examines engineering approaches to improving recovery and production performance from mature and technically complex fields. Topics include enhanced recovery techniques, smart completions, integrated reservoir management, production surveillance and AI-enabled optimisation. The discussion will highlight how adaptive field development, modular infrastructure solutions and continuous reservoir evaluation support more effective recovery throughout asset life. Case studies will demonstrate practical applications that improve recovery efficiency, production performance and asset longevity.

Technical Panel Session 4

14:00 - 15:30

Location: Al Maa'red Hall

Unlocking Gas Supply

Technical pathways for stranded resources and challenging developments

This panel explores technical solutions for developing stranded gas resources and challenging gas reservoirs. It will examine reservoir characterisation, underground gas storage (UGS), gas processing technologies and flexible production systems. The session will also address technical challenges in production, gas gathering, processing integration and the technical interface with LNG and hydrogen infrastructure. Discussions will focus on engineering innovations, facility design and operational approaches that improve production reliability and support efficient gas resource development.

DAY 3: WEDNESDAY 4 NOVEMBER 2026

Technical Panel Session 5

09:30 - 11:00

Location: Al Maa'ed Hall

Autonomous Oilfields

From insight to action with AI: When intelligent systems transform decision-making into execution

This session explores the application of AI, data platforms, digital twins and advanced analytics to upstream operations. It will examine production surveillance, predictive maintenance, drilling optimisation and automated production workflows, alongside the technical integration of digital tools across field operations. The panel will discuss implementation challenges including data quality, systems integration, interoperability and deployment across existing assets. Practical case studies will demonstrate how digital technologies improve operational efficiency, production performance and asset reliability.

Technical Panel Session 6

11:30 - 13:00

Location: Al Maa'ed Hall

Developing AI-Native Technical Capability

Building the skills, tools and workflows that enable intelligent operations

This panel examines how organisations build adaptive, future-ready workforces capable of thriving in a rapidly evolving energy dynamics and technological landscape. It will explore workforce transformation, AI integration, competency evolution, and knowledge preservation. The discussion will highlight how human and digital capabilities combine to drive performance, agility, and innovation. Practical approaches to leadership, culture, and talent development will be shared to ensure organisations remain resilient and competitive.

Technical Panel Session 7

14:00 - 15:30

Location: Al Maa'ed Hall

Asset & HSE resilience technical capability

Proactively preventing major events through integrity, risk, and human performance excellence

This panel addresses how operators strengthen defence-in-depth systems to prevent high-consequence incidents in increasingly complex and ageing assets. It will explore modern approaches to asset integrity management, barrier monitoring, and risk-based inspection, supported by digital and AI-enabled tools. Human performance, safety culture, and decision discipline will be central themes. The session will also examine how emerging technologies reshape risk profiles and how organisations maintain HSE excellence under evolving operational conditions.

DAY 1: MONDAY 2 NOVEMBER 2026

Technical Panel Session 8

13:00 - 13:40

Location: Capital Suites 20

Beyond Refining

Optimising downstream asset performance through process integration and operational flexibility

This panel explores how refiners are improving plant-wide performance through greater process integration, operational flexibility and advanced optimisation techniques. It will examine approaches to processing more variable feedstocks, increasing throughput, reducing energy intensity and improving coordination across interconnected process units. The discussion will highlight the role of advanced process control, real-time optimisation and digital decision-support tools in enhancing operational efficiency while maintaining product quality and asset reliability. The session will also consider how operators maximise value from existing assets without significant capital investment in an increasingly demanding operating environment.

SPE TECHNICAL PROGRAMME

Organised by:



The Technical Programme organised by SPE brings together engineers, scientists and technical specialists from across upstream operations and the wider energy value chain. Focusing on engineering innovation, operational excellence and advanced technologies, the programme explores applied solutions across geoscience, drilling, completions, well delivery, field development and production optimisation to strengthen technical outcomes across upstream operations.

Through field-tested case studies, peer-reviewed papers and expert-led technical discussion, attendees gain insight into the operational challenges shaping asset performance, reliability and project execution. The programme also creates opportunities to connect with engineers, scientists, researchers, project teams and technology leaders from around the world, exchanging knowledge, benchmarking approaches and identifying solutions that can be applied in real operating environments.

With a strong focus on digital transformation, AI, automation, data and advanced analytics, the Technical Programme examines how intelligent technologies are being used to optimise operations, strengthen decision-making and support more resilient energy systems.



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SPE TECHNICAL PROGRAMME CATEGORIES:



AI & DIGITAL
TRANSFORMATION



ENERGY ADDITION &
SUSTAINABLE SOLUTIONS



ADVANCED DRILLING,
COMPLETIONS & WELL DELIVERY



MARINE OPERATIONS & LOGISTICS



INTEGRATED FIELD
DEVELOPMENT



PROJECT & OPERATIONAL
EXCELLENCE



EXPLORATION &
GEOSCIENCE



PEOPLE DEVELOPMENT & DIVERSITY



HEALTH, SAFETY &
ENVIRONMENT



UNCONVENTIONAL RESOURCES
DEVELOPMENT



SPE TECHNICAL PROGRAMME AGENDA

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AI & DIGITAL TRANSFORMATION

	Monday 2 November	Tuesday 3 November	Wednesday 4 November	Thursday 5 November
08:30 - 10:00		AI-Driven Predictive Maintenance	LLMs for Knowledge Intelligence and Data Transformation	
			End-to-End Closed-Loop Optimisation	
10:30 - 12:00	Intelligent Well Operations: Driving Intelligent Well Decisions via IoT Edge Data	AI at Scale on Above Surface Facilities (Operational and Production Excellence)	Autonomous Operations and Decision Intelligence	Scaling Digital Twins: From Asset Models to Enterprise Orchestration
	Industrial Data Governance and Cyber Security: Best Practices	Agentic AI and ML in Action (Use Cases)	Physics-Informed AI and Machine Learning for Autonomous Production Optimisation and Reservoir Management I	AI-Driven Reservoir Simulation, History Matching, and Autonomous Field Development Optimisation I
13:00 - 14:30	Frontiers in Subsurface Engineering: Academic Research on AI and Edge Intelligence	Agentic AI for Closed-Loop Operations and Decision Automation: Subsurface	Multi-Agent AI and Enterprise Intelligence for Upstream and Facilities Optimisation	I-Driven Artificial Lift Optimisation: Field-Proven Intelligence Across Production Systems
	Next-Gen Field Automation: Robotics, UAVs, and Autonomous Surveillance	Agentic AI for Closed-Loop Operations and Decision Automation: Operation	Physics-Informed AI and Machine Learning for Autonomous Production Optimisation and Reservoir Management II	AI-Driven Waterflood Optimisation and Reservoir Surveillance
15:00 - 16:30				AI-Driven Reservoir Simulation, History Matching, and Autonomous Field Development Optimisation II
				AI for Carbon Management, CCUS, and Emission Intelligence
15:30 - 17:00	Human-AI Collaboration in Operations	Agentic AI for Closed-Loop Operations and Decision Automation: Integrity Downstream	AI and Machine Learning for Real-Time Drilling Intelligence, Formation Evaluation, and Completions Optimisation	
		LLMs for Operational Intelligence and Engineering Excellence		



ADVANCED DRILLING, COMPLETIONS & WELL DELIVERY

	Monday 2 November	Tuesday 3 November	Wednesday 4 November	Thursday 5 November
08:30 - 10:00		Integrated Well Stimulation: Design, Execution, and Evaluation	Best Practices in Drilling Operations—Case Histories II	
			Drilling Fluids I	
10:30 - 12:00	Advances in Downhole Monitoring Technologies and Implementations	Directional Drilling, Drilling Dynamics, and Geosteering	Transforming Well Delivery: Advances in Integrity, Intervention, and Cementing III	Drilling Optimisation I
	Lower Completion New Technologies Case Histories	Upper Completion and Artificial Lift Technologies		
13:00 - 14:30	Advances in Carbonate Acid Stimulation	Transforming Well Delivery: Advances in Integrity, Intervention & Cementing II	Drilling Fluids II	Well Design Efficiency
				Drilling Optimisation II
15:00 - 16:30				Real-Time Applications
				Drilling Optimisation III
15:30 - 17:00	Transforming Well Delivery: Advances in Integrity, Intervention & Cementing I	Best Practices in Drilling Operations—Case Histories I	Transforming Well Delivery: Advances in Integrity, Intervention, and Cementing IV	
	Advances in Gas/Water Shutoff Techniques		Data-Driven Well Delivery: Scalable Automation Architectures and Predictive Analytics	

View the full Technical Conference programme: adipec.com/technical-agenda



INTEGRATED FIELD DEVELOPMENT

	Monday 2 November	Tuesday 3 November	Wednesday 4 November	Thursday 5 November
08:30 - 10:00		Fluid Characterisation, PVT, and SCAL Case Studies	Breakthrough Field Development Technologies to Unlock Opportunities and Maximise Recovery Factors I	
		Chemical and Advanced EOR Applications I	Advances in Reservoir Modelling and Simulation: Uncertainty Analysis, Challenges, and Opportunities I	
10:30 - 12:00	Advances in Carbonate Stimulation and Rigless Intervention	Innovative Oil Development Plans and Case Studies I	Oil Field Development Challenges: Marginal Fields, Complex Reservoirs, Mature Fields, and Sour Oil I	Oil Field Development Challenges: Marginal Fields, Complex Reservoirs, Mature Fields, and Sour Oil III
				Innovative Gas Development Plans and Case Studies
13:00 - 14:30	Water Production Lifecycle Management and Case Studies	Advancement in Field Development Related Well Completions and Artificial Lift Applications	Breakthrough Field Development Technologies to Unlock Opportunities and Maximise Recovery Factors II	Gas Field Development Challenges: Sour Gas, HP/HT Reservoirs, and Complex Gas Reservoirs
	Integrated Asset Modelling Optimisation and AI Applications	Chemical and Advanced EOR Applications II		
15:00 - 16:30				Digital Reservoirs Solutions and Data-Driven Applications for Field Development
				Oil Field Development Challenges: Marginal Fields, Complex Reservoirs, Mature Fields, and Sour Oil IV
15:30 - 17:00	CO2 and Gas EOR Applications	Innovative Gas Development Plans and Challenges	Advances in Reservoir Modelling and Simulation: Uncertainty Analysis, Challenges, and Opportunities II	
	Integrated Field Development and CCUS Applications	Innovative Oil Development Plans and Case Studies II	Oil Field Development Challenges: Marginal Fields, Complex Reservoirs, Mature Fields, and Sour Oil II	



HEALTH, SAFETY & ENVIRONMENT

	Monday 2 November	Tuesday 3 November	Wednesday 4 November	Thursday 5 November
08:30 - 10:00		Innovation in Environmental Protection		
10:30 - 12:00	HSE Culture Transformation and Human Factors in HSE Performance Enhancement	Barriers, Controls, and Risk Management	Preventing Major Accidents and Lessons Learnt I	Managing Occupational Health Risk, Mental Health, and Wellbeing
13:00 - 14:30	Best Practices in Flaring and Emission Reduction	Predictive Risk Management and Operational Safety Performance	Artificial Intelligence and Technologies to Improve HSE Performance	Preventing Major Accidents and Lessons Learnt II

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EXPLORATION & GEOSCIENCE

	Monday 2 November	Tuesday 3 November	Wednesday 4 November	Thursday 5 November
08:30 - 10:00		Geoscience Technology Innovation	Advances in Basin Evolution Modelling	
10:30 - 12:00	Advances in Structural Geology and Geomechanics	Applications of AI in Geoscience I	New Exploration Plays and Studies of Petroleum Systems	Data-Driven Analytics and Their Application in Geosciences
13:00 - 14:30	Advances in Seismic Acquisition and Processing	Advances in Regional Geology and Sequence Stratigraphy	Role of Geoscience in Uncertainty Assessment	Advance Technologies in Open and Cased Logging
			Role of Geoscience in Risk Management	
15:00 - 16:30				Static Geological Modelling and Uncertainty Analysis
15:30 - 17:00	Advances in Seismic Reservoir Characterisation	Applications of AI in Geoscience II	Innovations in Rock Typing and Reservoir Characterisation	
	Energy Transition and Mineral Exploration			



ENERGY ADDITION & SUSTAINABLE SOLUTIONS

	Monday 2 November	Tuesday 3 November	Wednesday 4 November	Thursday 5 November
08:30 - 10:00		Scaling the Hydrogen Economy	Integrated Carbon Management	
10:30 - 12:00	Geothermal and Renewable Energy Expansion	Hydrogen Storage and Risk Management	Low Carbon Asset and Transformation	ESG, Sustainability, and Carbon Value
			Digital Decarbonisation	
13:00 - 14:30	Lithium and Critical Minerals Recovery	Subsurface Carbon Storage	Offshore Energy Transformation	Hydrogen and Low Carbon Fuels
15:00 - 16:30				Energy Efficiency and Electrification
15:30 - 17:00	New Batteries, Grids, and Energy Storage	Next Generation Carbon Capture	Sustainable Fuel Pathways	
			Thermal Efficiency Innovations and Circular Solutions	

View the full Technical Conference programme: adipec.com/technical-agenda



MARINE OPERATIONS & LOGISTICS

	Monday 2 November	Tuesday 3 November	Wednesday 4 November	Thursday 5 November
10:00 - 11:30	Subsea Engineering Infrastructure			Digital Transformation in Maritime and Offshore Logistics
10:30 - 12:00		Marine Engineering and Offshore Installation	Marine Logistics in EPCI	
11:30 - 13:00	Subsea IRM and Survey			Offshore Transport and Logistics Optimisation
13:00 - 14:30	Subsea Advance Technology	Energy Transition in Marine and Offshore Logistics	AI and Digital Optimisation in Marine Offshore Operations	Sustainability and Decarbonisation in Marine and Offshore Logistics
				HSE and Integrity of Offshore and Marine Installations I
15:30 - 17:00			AI and Data Analytical Solutions in Maritime Offshore Logistics	



PROJECT & OPERATIONAL EXCELLENCE

	Monday 2 November	Tuesday 3 November	Wednesday 4 November	Thursday 5 November
08:30 - 10:00		Maintenance 4.0, Reliability, Integrity, Availability, and Technologies I	Digital Technologies for Asset Integrity, Inspection, and Reliability	
		Integrated Solutions for Production Growth and Operational Resilience	Well Integrity and Subsurface Management III	
10:30 - 12:00	HSE, Process Safety Challenges, Technologies, and Innovative Practices	Well Integrity and Subsurface Management I	Facility Management and Asset Performance Optimisation: Constraints and Technologies I	Advanced Technologies for Production, Well, and Pipeline Integrity
	Water Management and Energy Optimisation I			Enhancing Measurement Accuracy Through Analytics, Modelling, and Automation
13:00 - 14:30	Autonomous and Remote Operations Challenges, Technologies, and Innovative Practices	Maintenance 4.0, Reliability, Integrity, Availability, and Technologies II	From Detection to Prevention: Next-Generation Integrity Management Technologies	Facility Management and Asset Performance Optimisation: Constraints and Technologies III
			Well Integrity and Subsurface Management IV	
15:00 - 16:30				Innovations in Flow Assurance, Production Chemistry, and Deposition Control
				Physics-Based and AI-Driven Approaches to Production System Optimisation
15:30 - 17:00	Water Management and Energy Optimisation II	AI, Advanced Process Control, and Optimisation for LNG and Operations	Facility Management and Asset Performance Optimisation: Constraints and Technologies II	
	Innovations in Process Optimisation, Energy Efficiency, and Plant Performance	Well Integrity and Subsurface Management II	Engineering Solutions for Corrosion Control and Asset Life Extension	

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PEOPLE DEVELOPMENT & DIVERSITY

	Monday 2 November	Tuesday 3 November	Wednesday 4 November	Thursday 5 November
10:30 - 12:00		Reskilling and Upskilling Programmes	Technology and HR Innovations	
13:00 - 14:30	Leadership Development	Wellbeing and Flexible Work Environments		Diversity, Culture, and Inclusion Analytics



UNCONVENTIONAL RESOURCES DEVELOPMENT

	Monday 2 November	Tuesday 3 November	Wednesday 4 November	Thursday 5 November
08:30 - 10:00		Optimising Completions: Challenges and Best Practices	Applications of AI and Data Sciences	
		Geomechanics and Subsurface Technologies for Smarter Well Placement		
10:30 - 12:00	From Resources to Reserves: Advanced Assessment and Production Forecasting	Emerging Technologies for Improved and Enhanced Recovery	Unconventional Operational Excellence II	Unconventional Advanced Subsurface Modelling
13:00 - 14:30	Exploration, Appraisal, and De-Risking Strategies	From Concept to Execution: Integrated Project Management and Planning	Advanced Artificial Lift Technologies and Optimisation Solutions	Innovations in Hydraulic Fracture Modelling and Design Optimisation II
15:00 - 16:30				Unconventional Operational Excellence III
15:30 - 17:00	Drilling Challenges: Lessons Learnt and Optimisation Opportunities	Unconventional Operational Excellence I	Innovations in Hydraulic Fracture Modelling and Design Optimisation I	

DOWNSTREAM TECHNICAL PROGRAMME

Organised by: **dmg::events**

The Downstream Technical Programme brings together engineers, operators, researchers and technical specialists from across refining, petrochemicals, LNG, gas processing and integrated downstream operations. As the industry's leading technical platform, it provides a forum for sharing practical expertise, operational experience and engineering innovation that supports safer, more efficient and more competitive downstream industries.

The programme examines the technologies and operational strategies transforming downstream performance, from process optimisation, advanced manufacturing and digitalisation to AI, automation, energy efficiency and circularity. It also explores developments in alternative fuels, hydrogen, carbon management and other emerging solutions that support the evolution of downstream operations.

Built around technical case studies, expert presentations and peer-to-peer knowledge exchange, the programme showcases proven applications and lessons learned from operating facilities worldwide. It enables delegates to benchmark performance, accelerate technology adoption and gain practical insights that strengthen asset reliability, operational excellence and long-term competitiveness.



Join the minds advancing energy system performance
Secure your Technical Pass to access both specialist programmes,
technical knowledge and the wider ADIPEC experience.

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DOWNSTREAM TECHNICAL PROGRAMME CATEGORIES:



REFINING AND PETROCHEMICALS
TECHNOLOGY AND OPERATIONS



CIRCULAR ECONOMY, RESOURCE
EFFICIENCY AND RECYCLING



LNG AND GAS PROCESSING
TECHNOLOGY AND OPERATIONS



ALTERNATIVE FUELS



PROJECT EXCELLENCE, EXECUTION
AND OPERATIONAL EFFICIENCY



HYDROGEN, RENEWABLE ENERGY
INTEGRATION AND HYBRID
TECHNOLOGIES



TECHNO-ECONOMIC DESIGN AND
STRATEGIC DECISION-MAKING IN
DOWNSTREAM **New**



CARBON CAPTURE, UTILISATION
AND STORAGE TECHNOLOGIES



DIGITAL TRANSFORMATION AND
ADVANCED MANUFACTURING
OPERATIONS IN DOWNSTREAM



SUSTAINABILITY AND
DECARBONISATION IN DOWNSTREAM



SUPPLY CHAIN AND VALUE
CHAIN MANAGEMENT



HUMAN CAPITAL AND TALENT
MANAGEMENT



DOWNSTREAM TECHNICAL PROGRAMME AGENDA

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DAY 1: MONDAY 2 NOVEMBER



HUMAN CAPITAL AND TALENT MANAGEMENT

TIME | 14:00 - 15:50

LOCATION | Capital Suite 15

Developing future-ready talent for an evolving downstream industry

Co-Chairs		Dr. Mumuni Dagazau	
	Ayman Ismaeil VP Government & Institutional Relations MEA Hitachi Energy	EVP Downstream NNPC Limited	
14:00 – 14:20	AI-augmented simulation training for safer and competency-driven energy operations	Masr Awad Abdelmawla Elaraby Training Development Department Manager Egyptian Projects Operation and Maintenance (EPROM)	
14:20 - 14:40	A strategic data-driven workforce framework for geopolitical resilience, energy security, and operational continuity	Amilton Emanuel Castro Strategic Human Capital Management Consultant AEC Consultoria de Gestão Empresarial	
14:40 – 15:00	How leaders prepare for crisis: scenario-based simulation for resilient decision-making in the energy sector	Amal Saad Managing Director Wide Impact	Alifiya Zohair Dholkawala Senior Instructional Designer WIDE Impact
15:00 – 15:20	Cracking the pipeline: mentoring as the flow enabler for DE&I in energy	Cornelia-Oana Toropoc Senior Advisor Economics MEA OMV	
15:20 – 15:40	Beyond the checkbox: building safety & PSM capability that actually sticks	Philip Louw Senior Manager dss+	

DAY 1: MONDAY 2 NOVEMBER



SUPPLY CHAIN AND VALUE CHAIN MANAGEMENT

TIME | 14:00 - 15:50

LOCATION | Capital Suite 18

Building agile and resilient supply chains in a dynamic energy landscape

Co-Chairs	Dr. Ahmad Salem Regional Director Industrial Solutions - Africa, Turkey and CIS Baker Hughes	Nasser Busbait Senior Engineer, Oil Supply Planning and Scheduling Aramco
14:00 - 14:20	Agentic AI for smarter logistics execution in downstream EPC projects	Vineet Bakshi Regional Director - Logistics Fluor
14:20 - 14:40	Materials & services spend AI predictor	Ali A. Al-Mashhad Business Systems Analyst Aramco
14:40 - 15:00	The autonomous barrel: AI and blockchain rewiring energy supply chains by 2030	Liudmila Prozorova Founder and CEO Quantum Leap Consultancy
15:00 - 15:20	Advanced freight rate prediction for strategic procurement: a quantile regression framework with explainable AI	Riti Newa Supply Chain Data Scientist ExxonMobil Services and Technology Private Limited
15:20 - 15:40	Dual-engine cognitive framework with human arbitration (DECF-HA): a resilient low-carbon architecture for downstream supply chains	Glory Boluwarin Olaoluwa Young Professional, SCM. NNPC Limited

View the full Technical Conference programme: adipec.com/technical-agenda

DAY 1: MONDAY 2 NOVEMBER



REFINING AND PETROCHEMICALS TECHNOLOGY AND OPERATIONS

TIME | 14:00 - 15:50

LOCATION | Capital Suite 20

Optimising efficiency and reliability in refining and petrochemical processes

Co-Chairs	Suhail A. Akram Head of Business Development thyssenkrupp Uhde GmbH Abu Dhabi	Alan K Bedell Director of Refining & Petrochemicals MENA Honeywell UOP	
14:00 - 14:20	Gradual olefins and aromatics technology (G.O.A.T): low capex crude-to-chemicals technology for the energy transition	Manjunatha M.G Chief Manager Innovation Mangalore Refinery & Petrochemicals Limited (MRPL)	Karthick Ramalingam Chief Manager (Innovation) Mangalore Refinery and Petrochemicals Limited (MRPL)
14:20 - 14:40	Evaluation and resolution of colour degradation in heavy base oil	Abraham George Team Leader, Research Analysis ADNOC Refining	
14:40 - 15:00	Successful FCC reactor-regenerator revamp equipment engineering & delivery-case study of Raizen	Vikas Gupta Technical Advisor Mechanical KBR	Partha Pratim Chowdhury Director Engineering KBR
15:00 - 15:20	Maximizing Light Olefins in FCC: Optimizing the Synthesis of Fe/ZY/ ZSM-5/KIT-6 Composite Catalysts	Dr. Hassan Al - Hassawi Research and Development Scientist Sinopec Tech Middle East	
15:20 - 15:40	Commercial FCC learnings on iron contamination: linking catalyst effects, diagnostic tools, and unit performance	Pastor Jose Manrique Valero Technical Account Manager, FCC Catalysts BASF Middle East Chemicals LLC	

DAY 2: TUESDAY 3 NOVEMBER



TECHNO-ECONOMIC DESIGN AND STRATEGIC DECISION-MAKING IN DOWNSTREAM

TIME | 09:30 - 11:20

LOCATION | Capital Suite 15

Maximising value creation through techno-economic analysis and strategic decision-making

Co-Chairs	Nimit Shah VP MEA KBR	Morgan Allen Senior Principal Technologist W. R. Grace & Co.	
09:30 - 09:50	Decision timing and its impact on passive fire protection performance in energy infrastructure	Owen Morris Senior Fire Protection Specialist Akzo Nobel	
09:50 - 10:10	Barrel to battery steel and aluminium - a techno-economic compass	Sooraj Sasidharan Nair Senior Engineer, Strategic Studies and Business Development ADNOC Refining	
10:10 - 10:30	Delivering LTC mega investment programmes: fluor perspectives from recent case studies	John Melancon P.E., Director, Process/Specialty Engineering Fluor	Shankar Vaidyanathan Executive Director and Senior Fellow Fluor MidEast Company Limited
10:30 - 10:50	Meeting AI data centre cooling demand with domestic group III base oil	Bosco Chiramel Senior Engineer - Operations, Mumbai Refinery Hindustan Petroleum Corporation Limited (HPCL)	
10:50 - 11:10	Techno-economic framework for selecting decarbonisation pathways in downstream operations under cost and operational constraints	Kushagra Kumar Vessel Logistics Advisor - Chemical, Oil Tanker and Barge Operations ExxonMobil	

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DAY 2: TUESDAY 3 NOVEMBER



PROJECT EXCELLENCE, EXECUTION AND OPERATIONAL EFFICIENCY

TIME | 09:30 – 11:20

LOCATION | Capital Suite 18

Enabling project excellence through innovation and lifecycle optimisation

Co-Chairs			
	Fadi Mhaini MSc., VP & General Manager MENA Lummus Technology		Claudio Albanese Head of Operational Performances Eni Abu Dhabi Refining & Trading Services
09:30 – 09:50	Innovative PFCCU main fractionator hot reflux routing modification achieving 9,650 MTOE/year energy savings	Neelabh Upadhyay Manager Bharat Petroleum Corporation Limited (BPCL)	Dileepkumar Valancheril Narayanan Nair Senior Manager Bharat Petroleum Corporation Limited (BPCL)
10:10 – 10:30	Sustaining refinery energy efficiency during disruption: energy intelligence-driven operational resilience for volatile high-uncertainty operating environments.	Ali Rashed Al Shehhi Team Leader, Energy Management, Technical Assurance Department ADNOC Refining	Manoj Pankajakshan Leelamma Senior Engineer, Energy Management, Technical Assurance Department ADNOC Refining
10:30 – 10:50	Data-centric engineering control on a fast-track fling megaproject	Gianluca Riconzi Technical Account Director Cadmatic	
10:50 – 11:10	Commissioning TGTU in SRU to address environmental concerns-a case study	Geetali Kalita Head of ESG Numaligarh Refinery Limited	Costantino Zappino Senior Mechanical Engineer – Offshore Projects Eni

DAY 2: TUESDAY 3 NOVEMBER



CIRCULAR ECONOMY, RESOURCE EFFICIENCY AND RECYCLING

TIME | 09:30 – 11:20

LOCATION | Capital Suite 20

Enhancing resource efficiency and circular solutions in downstream operations

Co-Chairs			
	Dr. Mikael Berthod General Manager OMV Refining & Marketing MEA		Dr. Stephan Schubert VP Enabling Technologies Covestro AG
09:30 – 09:50	From pilot to production: Envorem's world-largest sludge processing system deployed in Saudi Arabia	Mark Batt-Rawden Managing Director Envorem Limited	
09:50 – 10:10	LIGNIN: the sleeping giant of the biorefinery	Bibhudatta Rout General Manager (Alternate Energy) IndianOil Corporation Limited (IOCL)	
10:10 – 10:30	REVERSE™ PET – circular depolymerisation technology for pet bottle and textile waste	Dr. Sanjay P. Kamble Chief Scientist CSIR - National Chemical Laboratory	Karthick Ramalingam Chief Manager (Innovation) Mangalore Refinery and Petrochemicals Limited (MRPL)
10:30 – 10:50	Converting waste gas into low-carbon graphene nanoplatelets and hydrogen via methane splitting	Kaisa Nikulainen CEO ROTOBOOST	
10:50 – 11:10	Industrial processing of renewable feeds in FCC units: operational challenges and catalyst design	Hernando Salgado Technical Service Refining Catalysts BASF	

View the full Technical Conference programme: adipec.com/technical-agenda

DAY 2: TUESDAY 3 NOVEMBER



SUSTAINABILITY AND DECARBONISATION IN DOWNSTREAM

TIME | 11:30 – 13:20

LOCATION | Capital Suite 15

Delivering practical pathways to decarbonise downstream operations

Co-Chairs	Dr. Alok Sharma SVP Hydrogen Association of India	Fred Baars Senior Process Director Fluor
11:30 – 11:50	Key challenges and solutions in identifying midstream companies' significant scope 3 greenhouse gas emissions	Cheong Tse Wei Principal (Environment) PETRONAS
11:50 – 12:10	Connected carbon constrained optimisation engine	Kiran Kumar Khanna Senior Director, Connected Services Honeywell Technologies
12:10 – 12:30	Operational decarbonisation of downstream systems through integrated monitoring, optimisation, and loss prevention	Ahmed Mohamed Rashed Production Planning Manager Suez Oil Processing Company
12:30 – 12:50	Needle coke for batteries anode as revenue stream for refiners shifting to sustainable portfolio	Hector Infante Chief Technologist and Shareholder Representative OMV Refining and Marketing
12:50 – 13:10	Sustainable polyurethane technologies	Rajesh Debnath Associate Director, Process Economic Program S&P Global

DAY 2: TUESDAY 3 NOVEMBER



REFINING AND PETROCHEMICALS TECHNOLOGY AND OPERATIONS

TIME | 11:30 – 13:20

LOCATION | Capital Suite 18

Optimising efficiency and reliability in refining and petrochemical processes

Co-Chairs		Ayman Ismaeil VP Government & Institutional Relations MEA Hitachi Energy	Jiří Hájek MBA Director for Research, Development and Technology, Refinery ORLEN Unipetrol
11:30 – 11:50	Reshaping olefins economics and flexibility with NEP and NEO technology	Alan K Bedell Director of Refining and Petrochemicals MENA Honeywell UOP	
11:50 – 12:10	Closing the loop: converting plastic-derived pyrolysis oil into circular propylene via refinery integration	Mariam Mohammed Scientist, Catalysis Research ADNOC Refining	
12:10 – 12:30	Maximising refinery margins with diesel Iso-dewaxing - Yasref case study	Ankush Dehankar Strategic Account Manager Topsoe A/S	
14:20 – 14:40	Hydrocracker sequential start-up challenges	Tariq Alyazidi Process Engineer Aramco	Rakan Alwadei Process Engineer Aramco
12:50 – 13:10	AI-CFD digital twin for predictive corrosion management in crude distillation units	Ashutosh Kumar Technical Head Corrosion Intel	

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DAY 2: TUESDAY 3 NOVEMBER



CARBON CAPTURE, UTILISATION AND STORAGE TECHNOLOGIES

TIME | 11:30 – 13:20

LOCATION | Capital Suite 20

Advancing lower-carbon emissions reduction through scalable carbon capture and utilisation technologies

Co-Chairs	Kamel El Kholy Director MENA John Cockerill Hydrogen	Ashraf Abufaris Head of Gas Treatment Middle East and Central Asia BASF
11:30 – 11:50	Process-intensified rotating packed bed carbon capture (KCAP®) for distributed oil and gas decarbonisation applications	Kaushik Gandhi, Ph.D Senior Technology Manager, Innovation and Technology KBR
11:50 – 12:10	Integrated pre-treatment and reclaiming solvent management for post-combustion CO2 capture	Alexandre Molina Process Engineer Worley Comprimio
12:10 – 12:30	A case study for CO2 removal from syngas and natural gas using fluor solvent	Soumya Jyoti Choudhury Process Specialist Fluor Daniel India Private Limited
12:30 – 12:50	Heat integration alternatives in carbon capture units using amines with flue gases from different sources	Carlos Paipa Zambrano Senior Process Engineer – Gas Treatment TotalEnergies
12:50 – 13:10	Novel repurposing of grey hydrogen to blue hydrogen for co and liquefied CO2 valorisation	Debashis Thakur Chief Manager (Technical Services- Process) Numaligarh Refinery Limited

DAY 2: TUESDAY 3 NOVEMBER



PROJECT EXCELLENCE, EXECUTION AND OPERATIONAL EFFICIENCY

TIME | 14:00 – 15:50

LOCATION | Capital Suite 15

Enabling project excellence through innovation and lifecycle optimisation

Co-Chairs		Yves Houilliez VP Korea and Manufacturing Middle East, Asia Refining & Chemicals, TotalEnergies	Yves Houilliez VP Korea and Manufacturing Middle East, Asia Refining & Chemicals TotalEnergies
14:00 – 14:20	Passive kinetic oxygenation & engineered natural mineral treatment for H2S, HAB, turbidity & sediment control	Cherian Varghese Founder and CEO Aquom Gulf LLC	
14:20 – 14:40	Modular construction strategies for improving project execution efficiency in large-scale industrial facilities	Mohammad Al Issa Senior Sales Manager Projects AMEA Mammoet	Michel Bunnik Commercial Director Projects AMEA Mammoet
14:40 – 15:00	Corrosion management through optimised material selection for chloride stress corrosion cracking of stainless steels	Hanan Farhat Chairperson AMPP Qatar Chapter	
15:00 – 15:20	Eco-hydrodrilling for safer and faster catalyst unloading in agglomerated resid desulphurisation reactor beds	Callum Smith Group Project Director CR3	Clint Arnold Director - Reactor Solutions ZymeFlow, Inc.
15:20 – 15:40	Building the UAE's first integrated chemical ecosystem: a programme management framework for concurrent greenfield projects	Hind Al Mheiri VP - Project Services TA'ZIZ	Abdulla Al Shaiba SVP - Project Management, Engineering and Services Function TA'ZIZ

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DAY 2: TUESDAY 3 NOVEMBER



LNG AND GAS PROCESSING TECHNOLOGY AND OPERATIONS

TIME | 14:00 – 15:50

LOCATION | Capital Suite 18

Strengthening LNG and gas processing systems for resilient operations

Co-Chairs			
	Nasser Busbait Senior Engineer, Oil Supply Planning and Scheduling Aramco	Aarti Dange Director - Customer and Market Insights Emerson Automation Solutions	
14:00 – 14:20	Cleaner amine, stronger assets: online reclamation in gas processing	Saeed Zaid Al Menhali Process Engineer ADNOC Gas	
14:20 – 14:40	Unlocking incremental LNG production through feed gas pressure lowering in constrained late-life LNG facilities operations	Bugi Setiadi Process and Process Safety Engineer Discipline Lead bp	
14:40 – 15:00	AI-enabled ambient-temperature-based mixed refrigerant advisory system for energy-efficient LNG production	Abimanyu Sathiyamoorthy Associate Technical Professional – Process KBR	Mahesh Prabhu V Technical Professional Leader - Process KBR
15:00 – 15:20	AI-driven autonomous LNG terminals: digital twin-based energy optimisation and flare reduction	Sachin Kumar Agrawal AGM Engineers India Limited (EIL)	
15:20 – 15:40	Maximising asset capacity: Shell turbo technologies (STT) deployment at Gbaran for high-performance gas dehydration	Anh Do Licensing Technical Manager Shell Catalysts and Technologies	

DAY 2: TUESDAY 3 NOVEMBER



DIGITAL TRANSFORMATION AND ADVANCED MANUFACTURING OPERATIONS IN DOWNSTREAM

TIME | 14:00 – 15:50

LOCATION | Capital Suite 20

Leveraging AI, automation and advanced analytics for smarter downstream operations

Co-Chairs	Ahmad Salem Regional Director Industrial Solutions – Africa, Turkey and CIS Baker Hughes	Manas Sahoo Chief Industry Executive Advisor – Oil & Gas & Energy and Chemicals SAP Industry Value Engineering EMEA
14:00 – 14:20	AI-enabled hybrid model for ARDS planning	Biswanath Saha Senior Specialist Process Modelling, Research Process ADNOC Refining
14:20 – 14:40	AI-enabled incident investigation: governance design and outcomes in downstream operations	Isaac Ochulor Senior HSE Engineer & Digital Transformation Advisor Suhail Al Mazroui Transportation & Heavy Equipment
14:40 – 15:00	Experience of full digital substation in Middle East	Rajesh Ananth Technical Applications Leader- Middle East and North Africa GE Vernova
15:00 – 15:20	Virtual plant: turning legacy engineering data into operational intelligence	Esma Gulten Co-Founder and CEO Gizil
15:20 – 15:40	Flare reveal™: AI-driven real-time root cause attribution of refinery flaring for net-zero operations	Nirmalganesh S Chief Manager, Innovation Mangalore Refinery and Petrochemicals Limited (MRPL)

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DAY 3: WEDNESDAY 4 NOVEMBER



DIGITAL TRANSFORMATION AND ADVANCED MANUFACTURING OPERATIONS IN DOWNSTREAM

TIME | 09:30 – 11:20

LOCATION | Capital Suite 15

Leveraging AI, automation and advanced analytics for smarter downstream operations

Co-Chairs			
	Achraf El Ouali Principal, Energy and Digital Boston Consulting Group	Sylvain Cabalery CCO, Project Delivery & Services Technip Energies	
09:30 – 09:50	Closing the margin gap: a four-layer contextualisation framework for real-time plan-schedule-actual analysis in refineries	Jey Arjunan, PhD Senior Director, Product Management – Solutions AspenTech Emerson	
09:50 – 10:10	AI-enabled shutdown alignment optimisation across ADNOC integrated value chain using vast	Muhammad Adnan Zafar Value Delivery Program Manager (PetChem) - Value Chain Optimization ADNOC DM&T	Ahmed Sherif Kamal Azoz Manager, Gas Production Optimization - Value Chain Optimization ADNOC DM&T
10:10 – 10:30	Polyoptima™, a field-proven hybrid AI-first-principles digital twin for autonomous self-optimising polyolefin reactors	Karthick Ramalingam Chief Manager (Innovation) Mangalore Refinery and Petrochemicals Limited (MRPL)	
10:30 – 10:50	Transforming LNG performance: the power of integrated, data-driven, and digitally enabled services	Yanling Wu Senior Manager Strategic Planning Honeywell Technologies	
10:50 – 11:10	Mobile augmented reality for bim-based progress control in large-scale energy projects	Ayca Akinci, MSc Product Owner – Extended Reality (XR) Siemens Energy	

DAY 3: WEDNESDAY 4 NOVEMBER



REFINING AND PETROCHEMICALS TECHNOLOGY AND OPERATIONS

TIME | 09:30 – 11:20

LOCATION | Capital Suite 18

Optimising efficiency and reliability in refining and petrochemical processes

Co-Chairs		Dr. Mikael Berthod General Manager OMV Refining & Marketing MEA	Dr. Stephan Schubert VP Enabling Technologies Covestro AG
09:30 – 09:50	Unlocking benzene mode in refineries	Nikhil Darak Senior Analyst, Strategic Studies (Business Development) ADNOC Refining	Abdul Rahman Noah Abou Einein Senior Expert Refining Technologies MEA OMV Downstream GmbH
09:50 – 10:10	A novel integrated absorption-ejector cascade cycle for ethylene BOG re-liquefaction	Ahmed Tarek Mohamed Abd El-Hamid Senior Rotating Mechanical Engineer The Egyptian Ethylene and Derivatives Company (ETHYDCO)	
10:10 – 10:30	Beyond economic optimisation: embedding crude compatibility intelligence into aspen pims for reliable refinery operations	Shekhar Gunwal Senior Manager, Supply Chain Optimization Bharat Petroleum Corporation Limited (BPCL)	
10:30 – 10:50	A novel retrofit CDU-VDU configuration for energy efficiency, debottlenecking and net-zero refining	Ramanayya Gorle Senior Manager Engineers India Limited (EIL)	
10:50 – 11:10	Operability improvement of commercial dividing wall column using active vapour split controller	Gregorius Rionugroho Harvianto Lead Research Engineer Benit M Co. Ltd.	

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DAY 3: WEDNESDAY 4 NOVEMBER



SUSTAINABILITY AND DECARBONISATION IN DOWNSTREAM

TIME | 09:30 – 11:20

LOCATION | Capital Suite 20

Delivering practical pathways to decarbonise downstream operations

Co-Chairs			
	Dr. Mumuni Dagazau EVP Downstream NNPC Limited	Ashraf Abufaris Head of Gas Treatment Middle East and Central Asia BASF	
09:30 – 09:50	Reducing energy and CO ₂ emissions in a refinery, through a superesco approach in Oman	Alan Freeman Head, Energy Transition OQ Alternative Energy	
09:50 – 10:10	Balancing grid stability and decarbonisation: can the UAE meet rising demand amid evolved energy landscape	Alan Cortizo Suarez EVP Mitsubishi Power EMEA	
10:10 – 10:30	Achieving zero routine flaring by 2030, the current status and the remaining journey	Graham Filsell Asset Decarbonisation Lead Kent	Andrey Zhurkin Study Lead Kent
10:30 – 10:50	From carbon exposure to competitive advantage: a carbon competitiveness readiness framework	Dr. Eng. Maha Zahran Risks' Management and Strategic Planning General Manager Petrojet	
10:50 – 11:10	Carbon-informed EPC execution: the CTR-C concept	Subrata Bhowmik Senior Principal Engineer (Asset Management) McDermott	

DAY 3: WEDNESDAY 4 NOVEMBER



PROJECT EXCELLENCE, EXECUTION AND OPERATIONAL EFFICIENCY

TIME | 11:30 – 13:20

LOCATION | Capital Suite 15

Enabling project excellence through innovation and lifecycle optimisation

Co-Chairs			
	Hassan Hussain Al Hosani SVP Projects and Technical ADNOC	Morgan Allen Senior Principal Technologist W. R. Grace & Co.	
11:30 – 11:50	KAAP converter replacement at EBIC: engineering design, execution challenges, and solutions	Ravi Dayaram Mahatale Senior Technical Professional Leader - Mechanical KBR	
11:50 – 12:10	Acoustic induced vibration (AIV) in multiphase flow pipelines – technical review	Prashant Ojha CEO Mechartés International FZC	
12:10 – 12:30	Positive isolation on live process systems without hot work or depressurisation	Svein Tore Milwertz Customer Solutions Director Izomax	
12:30 – 12:50	Accelerating FID through value focused FEL framework for regasification project in South East Asia	Munir Najmi Bin Mat Noh Principal Front End Engineer PETRONAS	
12:50 – 13:10	Reconfigure to compete: integrated asset renewal for downstream value	Ignacio Beltrán Senior Advisor Technical Development OMV	Oana Toropoc Senior Advisor Economics MEA OMV

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DAY 3: WEDNESDAY 4 NOVEMBER



TECHNO-ECONOMIC DESIGN AND STRATEGIC DECISION-MAKING IN DOWNSTREAM

TIME | 11:30 – 13:20

LOCATION | Capital Suite 18

Maximising value creation through techno-economic analysis and strategic decision-making

Co-Chairs		Fred Baars Senior Process Director Fluor	Nimit Shah VP MEA KBR
11:30 – 11:50	Making CCS work - a strategic guide to economic viability and enabling conditions	Prof. Niall Mac Dowell Professor of Future Energy Systems Imperial College London	
11:50 – 12:10	Beyond greenfield: refinery expansion as the new downstream investment paradigm	Mohamed Abdo Senior Process Specialist Saudi Aramco Base Oil Company – Luberef	
12:10 – 12:30	Use of RTP pipes for high pressure hydrocarbon gas and nitrogen pipelines	Sandeep Bhowal Senior Engineer, Pipeline ADNOC GAS	
12:30 – 12:50	Reliable, low carbon power for datacentres: is methane pyrolysis a solution ready to scale?	Chris Avison Head of Low Carbon and Renewable Solutions Kent	Luigi Crolla Director of Energy Transition and Low Carbon Technologies Kent
12:50 – 13:10	AI-driven decision frameworks for downstream technology selection and risk optimisation	Dr. Grace O. Akinfoyewa Country Director AAAI-Nigeria	

DAY 3: WEDNESDAY 4 NOVEMBER



LNG AND GAS PROCESSING TECHNOLOGY AND OPERATIONS

TIME | 11:30 – 13:20

LOCATION | Capital Suite 20

Strengthening LNG and gas processing systems for resilient operations

Co-Chairs	Saif Sheikh Senior Director Solution Consulting Aspen Technology	Dr. Ahmad Salem Regional Director Industrial Solutions – Africa , Turkey and CIS Baker Hughes	
11:30 – 11:50	From deployment to operations: AI copilot results at ADNOC Asab gas processing facility	Bjarne Andre Asheim CEO Kairos Technology AS	Shamma Rashed AlShamsi Senior Engineer, Plant Operations ADNOC Gas
11:50 – 12:10	Sour water contamination	Abdulaziz Baqer Khajah Process Engineer KNPC	
12:10 – 12:30	Controlling transient hydrogen sulfide emissions from sour water storage facility through heat integration	Pawanjeet Oberoi Process Manager Wood Group	Sunil Paul Senior Process Engineer Wood Group
12:30 – 12:50	Failure caused by mercury embrittlement in main cryogenic heat exchanger in an LNG plant	Zeeshan Anwar Senior Engineer, Mechanical, Service Engineering Baker Hughes	Chandra Sekhar Manda Principal Automation & Control Engineer Baker Hughes
12:50 – 13:10	Beyond MDEA cutting costs and boosting sulphur recovery in tail gas treating	Manish Kumar Mehta Technical Marketing Manager BASF	Curt Graham SVP Technology Fluor

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DAY 3: WEDNESDAY 4 NOVEMBER



HYDROGEN, RENEWABLE ENERGY INTEGRATION AND HYBRID TECHNOLOGIES

TIME | 14:00 – 15:50

LOCATION | Capital Suite 15

Accelerating hybrid energy systems through hydrogen and renewables

Co-Chairs			
	Kamel El Kholy Director MENA John Cockerill Hydrogen	Suhail A. Akram Head of Business Development thyssenkrupp Uhde GmbH Abu Dhabi	
14:00 – 14:20	Production of green hydrogen from RO reject water “AMOC Case”	Ibrahim Elsayed Omran Utilities Department Head Alexandria Mineral Oils Company (AMOC)	
14:20 – 14:40	Pressureless hydrogen storage via a reversible potassium bicarbonate-formate cycle for safe transport	Johannes Emigholz CEO AKROS Energy	
14:40 – 15:00	Techno-economic pathways for grey-to-blue and green ammonia production	Muhammed Salih Kilayil Ali ProProcess Engineer, Oil, Gas and New Energies (OGNE) Wood Group	
15:00 – 15:20	Modular natural gas upgrading: catalytic methane pyrolysis for low-carbon hydrogen, synthetic graphite, and downstream integration	Ehsan Abbasi CTO Innova Cleantech Corp	Sameh Esmail President ALCO Energy Solutions LP
15:20 – 15:40	New emerging chemical looping technology to produce blue hydrogen, against best available technology in industry	Luigi Crolla Director of Energy Transition and Low Carbon Technologies Kent	

DAY 3: WEDNESDAY 4 NOVEMBER



DIGITAL TRANSFORMATION AND ADVANCED MANUFACTURING OPERATIONS IN DOWNSTREAM

TIME | 14:00 – 15:50

LOCATION | Capital Suite 18

Leveraging AI, automation and advanced analytics for smarter downstream operations

Co-Chairs			
	Aarti Dange Director - Customer and Market Insights Emerson Automation Solutions	Pierre Leretz SVP & Global Business Manager, Blending Business Line, Energy Industries ABB Group	
14:00 – 14:20	GAPLO: an autonomous self-evolving agentic system for downstream gas pipeline operations optimisation	Hongzhi Chen AI Expert Kunlun Digital Technology Co.,Ltd	
14:20 – 14:40	AI-driven hydrogen network optimisation for refinery operations	Pawan Borhade Program Manager – Oil, Gas and Chemicals Tridiagonal.ai	
14:40 - 15:00	Conversational AI assistant for troubleshooting using unified control-logic and operations knowledge	Prem Kumar Aerath Senior Engineer Baker Hughes	
15:00 – 15:20	Integrated predictive analytics and decoke forecasting for steam cracking furnaces protecting olefins throughput	Ahmed Musa Global AI and Digital Transformation Leader Borouge	Vahid Vajihinejad Team Leader, Data Science Borouge
15:20 – 15:40	Enhancing aromatics yield through feed-responsive severity optimisation while controlling fuel gas generation in CCR	Edward Alan Sahli Senior Director, Business Development Honeywell Technologies	

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DAY 3: WEDNESDAY 4 NOVEMBER



ALTERNATIVE FUELS

TIME | 14:00 – 15:50

LOCATION | Capital Suite 20

Scaling biofuels and e-fuels for sustainable fuel production

Co-Chairs	Jiří Hájek MBA Director for Research, Development and Technology, Refinery ORLEN Unipetrol	Dr. Alok Sharma SVP Hydrogen Association of India
14:00 – 14:20	Fjord PtX project: challenges and mitigations of scaling and integrating new technologies	Giovanna Villari Sustainable Fuels Commercial Manager Saipem SpA
14:20 – 14:40	Sustainable aviation fuel production technology of Sinopec	Weiguo Huang Principal Scientist of Petrochemical Department Sinopec Tech Middle East
14:40 – 15:00	Refinery co-processing of bio-feedstocks for marine biofuels: HPCL Visakhapatnam operational experience	Akash Raj Senior Officer, Marine Sales Hindustan Petroleum Corporation Limited (HPCL)
15:00 – 15:20	Flying green: the role of renewable hydrogen in the production of sustainable aviation fuels	Andrey Zhurkin Study Lead Kent Luigi Crolla Director of Energy Transition and Low Carbon Technologies Kent
15:20 – 15:40	Integrating carbon capture and renewable hydrogen in kraft mills for scalable green methanol production	Ameet Kakoto Director KBR

DAY 4: THURSDAY 5 NOVEMBER



PROJECT EXCELLENCE, EXECUTION AND OPERATIONAL EFFICIENCY

TIME | 09:30 – 11:20

LOCATION | Capital Suite 15

Enabling project excellence through innovation and lifecycle optimisation

Co-Chairs	Fred Baars Senior Process Director Fluor	Jiří Hájek MBA Director for Research, Development and Technology, Refinery ORLEN Unipetrol
09:30 – 09:50	A practical framework for managing abnormal operations in LNG facilities	Muhamad Hilman Anshari Process Engineering Technical Authority bp
09:50 – 10:10	Leveraging physics-based AI to maximise uptime	Andrey Kostyukov President and CEO Dynamics Scientific, Inc.
10:10 – 10:30	From leak path to load path: rethinking flange face integrity across the asset lifecycle	Paola Chavez Technical Service Engineer Belzona, Inc.
10:30 – 10:50	Enhancing projects safety and reliability: integrating safety studies and qra in brownfield mega projects	Dr. Ahmed Essam Keshta Process Safety Engineer Borouge
10:50 – 11:10	Beyond design: a structured approach to maximising LBOU throughput	Ali Jaffar VP of Technical Services Bapco Refining

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DAY 4: THURSDAY 5 NOVEMBER



CIRCULAR ECONOMY, RESOURCE EFFICIENCY AND RECYCLING

TIME | 09:30 – 11:20

LOCATION | Capital Suite 18

Enhancing resource efficiency and circular solutions in downstream operations

Co-Chairs		
Dr. Stephan Schubert VP Enabling Technologies Covestro AG		Mohammed Benchechchou VP and Managing Director EMECA Topsoe International A/S
09:30 – 09:50	Processing and integration pathways for plastic and tire-derived feedstocks in refining and petrochemical complexes	Anubhav Kapil Senior Technology Manager KBR
09:50 – 10:10	Unlocking hidden hydrogen: a waste-to-resource refinery field demonstration using first-of-its-kind indigenous polymeric membranes	Ramawatar Asawa Senior Manager (Technology, Energy) Bharat Petroleum Corporation Limited (BPCL)
10:10 – 10:30	From waste to feedstock: overcoming the divide between waste management and the petrochemical industry	Michaela Fraubaum Department Manager Feedstock and Pre-treatment Technologies, Circular Economy Innovation OMV Downstream GmbH
10:30 – 10:50	An innovative solar/UV-assisted approach for spent caustic treatment and hydrogen production	Shailendra Kumar Assistant General Manager Engineers India Limited (EIL)
10:50 – 11:10	Beyond disposal: converting refinery spent catalyst into recoverable metals and revenue	Mohamed Atia Abdeltawab Atia Process Engineer Egyptian Refining Company (ERC)

DAY 4: THURSDAY 5 NOVEMBER



DIGITAL TRANSFORMATION AND ADVANCED MANUFACTURING OPERATIONS IN DOWNSTREAM

TIME | 09:30 – 11:20

LOCATION | Capital Suite 20

Leveraging AI, automation and advanced analytics for smarter downstream operations

Co-Chairs			
Achraf El Ouali Principal, Energy and Digital Boston Consulting Group		Saif Sheikh Senior Director Solution Consulting Aspen Technology	
09:30 – 09:50	The genAI process engineer: an agentic system for technical decision support in FCC operations	Egnazio Ollà Technical Services Manager Raffineria di Milazzo S.C.p.A.	Alessandro Milazzo Process Engineer Raffineria di Milazzo S.C.p.A.
09:50 – 10:10	AI weather forecasting for critical energy assets	Pablo Peris Industry Director - EMEA Energy and Resources Microsoft	Yara Alatrach Energy and Resources Industry Director - EMEA Microsoft
10:10 – 10:30	LLM-driven hybrid digital twin for refinery utility networks	Yuliang Hao Project Manager Kunlun Digital Technology Co.,Ltd	
10:30 – 10:50	Causal AI agents for operational forecasting and downstream decision-making: a multi-agent adaptive architecture	Mukenze Ngalamulum Junior Ph.D. Candidate Handong Global University	
10:50 – 11:10	One CBM - using AI to increase plant availability and reduce opex	Maïder Estécachandy Senior Reliability Engineer TotalEnergies	

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DAY 4: THURSDAY 5 NOVEMBER



REFINING AND PETROCHEMICALS TECHNOLOGY AND OPERATIONS

TIME | 11:30 – 13:20

LOCATION | Capital Suite 15

Optimising efficiency and reliability in refining and petrochemical processes

Co-Chairs			
	Jiří Hájek MBA Director for Research, Development and Technology, Refinery ORLEN Unipetrol		Mohammed Benchekchou VP and Managing Director EMEACA Topsoe International A/S
11:30 – 11:50	Co-processing pyrolysis fuel oil in FCC	Abdul Rahman Noah Abou Einein Senior Expert Refining Technologies MEA OMV	
11:50 – 12:10	Predicting corrosion in air fin coolers: a real-time AI and 3D visualisation approach	Amit Priyadarshan Execution Head Corrosion Intel	
12:10 – 12:30	Next-gen iso-dewaxing catalysts: leveraging mesoporous zeolites for enhanced yields in conventional and renewable feedstocks	Kurt Du Mong CEO Zeopore Technologies NV	Markus Hartung VP and Head of Global Commercial Processes and Region EMEA Catalysts Evonik Operations GmbH
12:30 – 12:50	Integrated performance optimisation of NHT/CCR/VGOHDS Unit	Madhur Kumar Meshram Senior Manager Bharat Petroleum Corporation Limited (BPCL)	
12:50 – 13:10	XCEED: path to maximum energy efficiency, decarbonisation, & zero NOx emissions in fired heaters	Erwin Platvoet CTO XRG Technologies LLC	

DAY 4: THURSDAY 5 NOVEMBER



SUSTAINABILITY AND DECARBONISATION IN DOWNSTREAM

TIME | 11:30 – 13:20

LOCATION | Capital Suite 18

Delivering practical pathways to decarbonise downstream operations

Co-Chairs			
	Fred Baars Senior Process Director Fluor		Dr. Mikael Berthod General Manager OMV Refining & Marketing MEA
11:30 – 11:50	Cooling tower retrofit solution for water reduction and energy efficiency in downstream operations	Alain Mestat Managing Partner H2ovortex	
11:50 – 12:10	Decarbonising refinery utilities: from steam- driven vacuum to electrified systems – towards net zero pathways	Harmeet Singh Manager, Operations Department, Mumbai Refinery Hindustan Petroleum Corporation Limited, Mumbai Refinery (HPCL)	
12:10 – 12:30	From waste to clean energy: the acid path to decarbonising refineries	Igor Kostromin Licensing Manager Topsoe A/S	
12:30 – 12:50	Driving refinery decarbonisation through energy efficiency: case studies in sustainable operational excellence	Vijay Yalaga Deputy General Manager (DGM) Engineers India Limited (EIL)	
12:50 – 13:10	Integrating power and process automation to decarbonise emerging downstream energy assets	Rajesh Sharma CCUS Global Business Development Leader Schneider Electric	

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DAY 4: THURSDAY 5 NOVEMBER



HYDROGEN, RENEWABLE ENERGY INTEGRATION AND HYBRID TECHNOLOGIES

TIME | 11:30 – 13:20

LOCATION | Capital Suite 20

Accelerating hybrid energy systems through hydrogen and renewables

Co-Chairs	Hassan Hussain Al Hosani SVP Projects and Technical ADNOC	Dr. Alok Sharma SVP Hydrogen Association of India
11:30 – 11:50	NX Eblue™ technology: innovation rooted in proven KTT conventional SMR expertise	Stefano Carenza H2 and Syngas Group Leader KT TECH (NEXTCHEM)
11:50 – 12:10	Enabling storage-free hydrogen power generation from ammonia: transient modelling study of the H2ACT® process	Tuan Hoang Process Manager and H2ACT SME KBR Technology - Hydrogen and Biofuels Technologies
12:10 – 12:30	Simulation-based flare-gas conversion to hydrogen and power via plasma reforming, SOFC and carbon capture	Ahmed Adel Mabrouk Lead Process Engineer Egyptian Projects Operation and Maintenance (EPROM)
12:30 – 12:50	Beyond DCS: real-time mechanism-resolved diagnostics for industrial hydrogen production	Deeparnak Bhowmick Co-Founder and CTO Yuji Labs
12:50 – 13:10	Thyssenkrupp uhde's ammonia cracking as supporting technology for the downstream energy security and resilience	Gabriele Omassi Head of New Business Models and Strategic Partnerships thyssenkrupp Decarbon Technologies

DAY 4: THURSDAY 5 NOVEMBER



DIGITAL TRANSFORMATION AND ADVANCED MANUFACTURING OPERATIONS IN DOWNSTREAM

TIME | 14:00 – 15:50

LOCATION | Capital Suite 15

Leveraging AI, automation and advanced analytics for smarter downstream operations

Co-Chairs	Saif Sheikh Senior Director Solution Consulting Aspen Technology	Alan K Bedell Director of Refining & Petrochemicals MENA Honeywell UOP
14:00 – 14:20	From constraints to profit: AI-enabled deterministic optimisation unlocking \$20m in ammonia operations	Naveen Kumar Matta Advisor Digital Technology -Technical Project Management Baker Hughes Vinay Maithani Enterprise Customer Success Manager - Industrial Energy and Technology Baker Hughes
14:20 – 14:40	AI-driven predictive cleaning optimisation for refinery heat exchanger networks	Sharanaya Puri Client Solution Strategist Algo8 AI
14:40 – 15:00	From crude intake to high-margin yield: real-time feedstock characterisation and closed-loop RTO	Rajeev Kumar General Manager (R&D) Bharat Petroleum Corporation Limited (BPCL)
15:00 – 15:20	Scaling AI-driven digital twin ecosystems for value creation in petrochemical operations	Marcus Hedlund Head of Industrial Digitalisation Borouge
15:20 – 15:40	AI-driven virtual TVP analyser for real time vapour pressure management at PDO	Mahmood Al Balushi Senior Production Measurement Specialist Petroleum Development Oman Dr. Tariq Darwish Research and Development Lead LAMAD

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DAY 4: THURSDAY 5 NOVEMBER



PROJECT EXCELLENCE, EXECUTION AND OPERATIONAL EFFICIENCY

TIME | 14:00 – 15:50

LOCATION | Capital Suite 18

Enabling project excellence through innovation and lifecycle optimisation

Co-Chairs			
Fadi Mhaini, MSc. VP & General Manager MENA Lummus Technology		Aarti Dange Director - Customer and Market Insights Emerson Automation Solutions	
14:00 - 14:20	Successfully delivering complex or unique projects	Khalifa Al Qubaisi VP (Major Projects) ADNOC Refining	Hassan Al Hosani SVP, Projects and Technical ADNOC Refining
14:20 - 14:40	Furnace retrofitting for enhanced energy efficiency and sustaining higher charge - a success story	Sanu Sudhi Chief Manager, Kochi Refinery Bharat Petroleum Corporation Limited (BPCL)	Ashish Sharma Manager, Kochi Refinery Bharat Petroleum Corporation Limited (BPCL)
14:40 - 15:00	High temperature industrial heat pumps for converting refinery waste heat into low-carbon process steam	Ahmed Atef El-Sharnouby Energy Transition and Sustainability Department Manager Egyptian Projects Operation and Maintenance (EPROM)	
15:00 - 15:20	Best practices to improve reliability of heavy-duty gas turbines equipped with liquid fuel systems	Chandra Sekhar Manda Principal Automation & Control Engineer Baker Hughes	Zeeshan Anwar Senior Engineer Mechanical, Service Engineering Baker Hughes
15:20 - 15:40	Redefining fire zone in brownfield developments: a hybrid approach for safer facility integration	Mark Carlo A. Guevarra Loss Prevention Engineer Chiyoda Almana Engineering LLC	

DAY 4: THURSDAY 5 NOVEMBER



TECHNO-ECONOMIC DESIGN AND STRATEGIC DECISION-MAKING IN DOWNSTREAM

TIME | 14:00 – 15:50

LOCATION | Capital Suite 20

Maximising value creation through techno-economic analysis and strategic decision-making

Co-Chairs			
Alan K Bedell Director of Refining & Petrochemicals MENA Honeywell UOP		Ali Jaffar VP Technical Services BAPCO Refining	
14:00 - 14:20	Optimising energy-emissions tradeoffs in refrigerant selection and cooling water systems for oil and gas facilities	Mayur Madhav Shinde Principal Process Engineer Wood	Danish John Paul Mark Reji Process Engineer Wood
14:20 - 14:40	Electrochemical regeneration of mercaptide-loaded caustic in LPG sweetening	Saurabh Agarawala Assistant General Manager Research and Development Engineers India Limited (EIL)	
14:40 - 15:00	Techno-economic selection of nuclear E-SAF configurations under CAPEX and CO2 constraints	Michael Czarnecki Concept Study Lead Kent	
15:00 - 15:20	Resilience-adjusted CAPEX: business continuity as a first-order siting criterion	Ajay Jagannath Vyas Senior Specialist - Senior Specialist, Technical Studies Department - Gas Project Division ADNOC DM&T	
15:20 - 15:40	Techno-economic assessment of electrification pathways for LNG utility decarbonisation	Sathya Priya B C Technical Professional - Instrumentation and Controls KBR	Kirubakaran Ramasundaramoorthy Principal Technical Professional - Process KBR

View the full Technical Conference programme: adipec.com/technical-agenda



ADIPEC TECHNICAL EXCELLENCE AWARDS

The ADIPEC Technical Excellence Awards recognise outstanding technical contributions that demonstrate excellence in research quality, innovation and measurable industry impact.

The programme promotes the highest standards in technical writing and presentation. Through a structured and merit-based evaluation process, the ADIPEC Technical Excellence Awards seek to identify and honour the winners for each technical category.

The Awards will be presented on Wednesday, 4 November 2026, as part of the ADIPEC Technical Conference agenda.

Join the minds advancing energy system performance
Secure your Technical Pass to access both specialist programmes, technical knowledge and the wider ADIPEC experience.

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TECHNICAL AWARDS CATEGORIES INCLUDE:

- AI & Digital Transformation
- Advanced Drilling, Completions & Well Delivery
- Integrated Field Development
- Exploration & Geoscience
- Health, Safety & Environment
- Energy Addition & Sustainable Solutions
- Marine Operations & Logistics
- Project & Operational Excellence
- Unconventional Resource Development
- Downstream Excellence and Innovation **New**
- Resilience Award **New**
- Young Professional Award **New**
- Rising Stars Award (Academia) **New**
- People Development & Diversity



ADIPEC CONFERENCES

One platform for energy action

Spanning the Strategic Conference and the Technical Conference, the ADIPEC Conference Programme will deliver 13 dedicated conferences, more than 380 sessions and over 1,800 speakers.

Across the agenda, participants will address the priorities shaping energy's next phase – from supply continuity, energy addition, capital allocation and infrastructure development to AI, technology deployment, industrial execution and workforce readiness.

Together, the ADIPEC Conferences create the environment where strategic dialogue, technical expertise and cross-sector collaboration translate into practical solutions, partnerships and decisions that strengthen resilience, secure supply and enable long-term system performance.

Conference in numbers

16,500+

Conference delegates

1,800+

Conference speakers

380+

Conference sessions

13

Conference programmes

Visit adipec.com/conferences
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ADIPEC EXHIBITION

At ADIPEC 2026, more than 2,250 organisations will showcase the technologies, services and market-ready solutions needed to strengthen energy systems, expand supply and support long-term growth.

Across 16 halls, 30 country pavilions and four specialised industry zones, the Exhibition brings the full energy value chain into one commercial environment – from NOCs, IOCs, NECs and IECs to technology providers, manufacturers, service companies, investors and project partners.

Exhibition in numbers

239,000+

Exhibition attendees

2,250+

Exhibiting companies

30

Country pavilions

4

Specialised industry areas

54

NOCs, IOCs, NECs and IECs

US\$53BN

Generated across 49,131 business deals

A GLOBAL PLATFORM FOR ENERGY DECISION-MAKERS

ADIPEC convenes energy leaders, investors, policymakers, innovators and technical experts from across the world to advance the opportunities shaping the next era of energy.

By connecting leadership, capital, technology and technical expertise, ADIPEC enables the partnerships, investment and commercial decisions needed to expand energy supply, accelerate infrastructure and innovation, and turn global energy opportunity into measurable progress.

WHO YOU'LL MEET?

- Industry leaders and decision-makers
- Business and investment professionals
- Engineering and technical experts
- Supply chain and procurement leaders
- AI, digital and sustainability innovators
- Media, academia and youth

VISITORS BY REGION

32%

Middle East

23%

Europe

23%

Asia / Oceania

14%

Americas

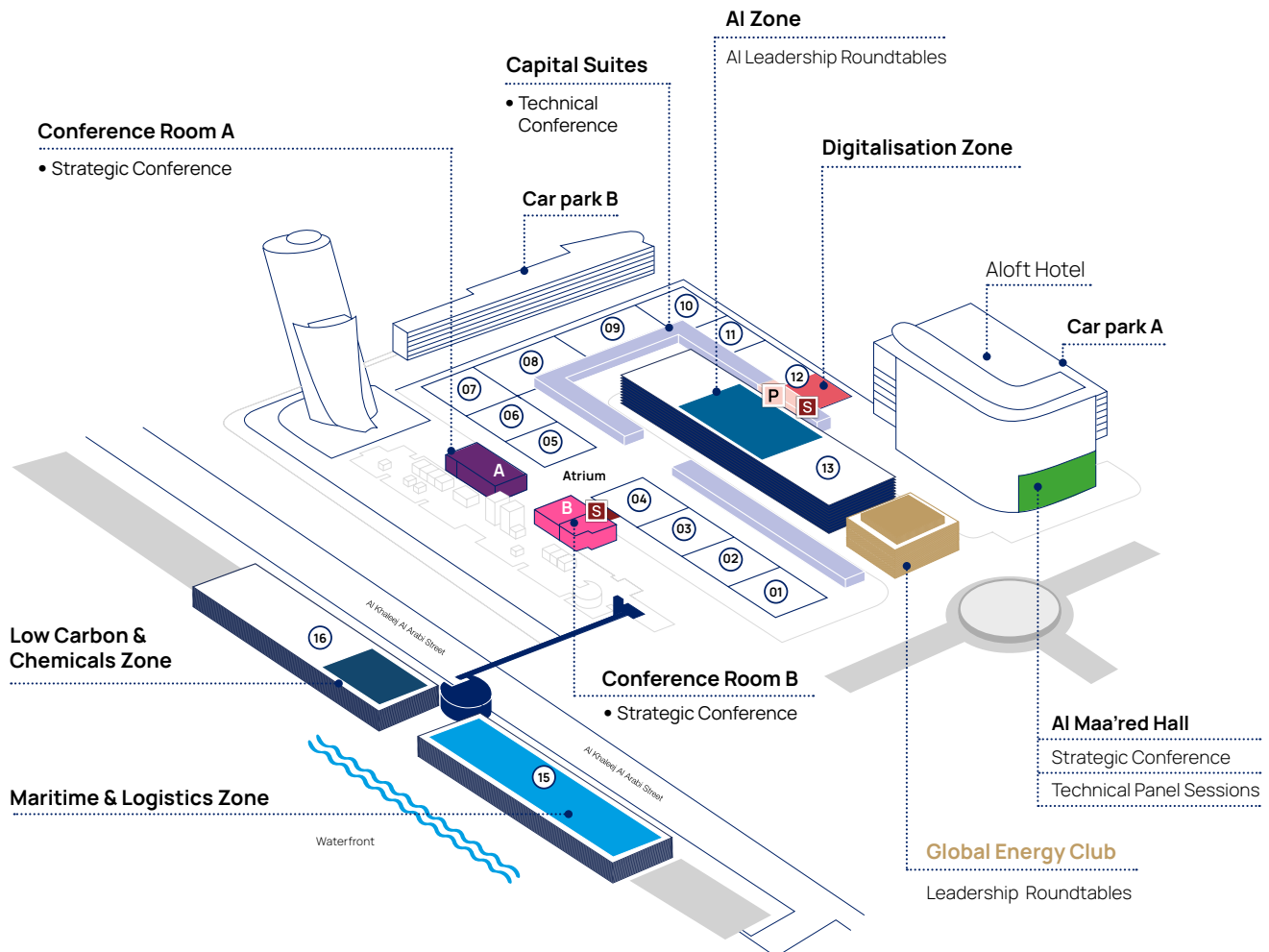
8%

Africa



ADIPEC VENUE MAP

Join us at ADIPEC 2026, taking place from 2–5 November in Abu Dhabi at the ADNEC Centre, offering unparalleled opportunities for collaboration, innovation and progress.



1 16 Exhibition halls

- Global Energy Club
- Low Carbon & Chemicals Zone
- Maritime & Logistics Zone
- Digitalisation Zone
- AI Zone
- P Press Centre
- S Speaker Room Locations

Strategic Conference locations

- AI Maa'red Hall
- Conference room A
- Conference room B

Technical Conference locations

- Capital Suites - Mezzanine Floor
- AI Maa'red Hall - (panel sessions)

Contact us now at +971(0)2 4444 909 or email sales@adipec.com to reserve your space.

DELEGATE PASS INFORMATION

Across 13 conference programmes and 380+ sessions, speakers will share diverse perspectives and discuss actionable outcomes aimed at accelerating the transition to a cleaner, more secure energy future.

4-DAY PASS

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Pass includes:

- Access to 11 strategic programmes + 2 technical programmes
- Access to exclusive networking opportunities

Also includes:

- Delegate lunches
- Access to exhibition halls
- Access to 4 specialised zones
- Access to innovation sessions
- Access to the Energy Connects Conference Hub

US \$7,250

4-DAY PASS

TECHNICAL PASS

Pass includes:

- SPE Technical Programme
- Downstream Technical Programme

Also includes:

- Delegate lunches
- Access to exhibition halls
- Access to Technical Excellence Award Ceremony
- Access to 4 specialised zones
- Access to innovation sessions
- Access to technical papers post event

US \$2,030

Book your pass: adipec.com/delreg



2-5 NOVEMBER 2026
ABU DHABI, UAE

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