

19th QatarEnergy LNG Engineering Conference

23rd to 24th September 2025

Qatar National Convention Centre (QNCC) - Doha



Day 2 Agenda: 24th September 2025 - Main Theatre (Al Mayassa)

- | | |
|---------------|--|
| 07:00 - 08:00 | Arrival and Registration - QNCC |
| 08:00 - 08:05 | Safety Briefing QNCC Security |
| 08:05 - 08:10 | Engineering Conference Journey |
| 08:10 - 08:20 | Welcome Note Chief Subsurface Officer – QatarEnergy LNG |
| 08:20 - 08:25 | Group Photo |
| 08:25 - 09:25 | Main Technical Panel Discussion Life Cycle Management |
| 09:25 - 10:00 | COFFEE BREAK / Booths & Posters Exhibition |
| 10:40 - 11:40 | Technical Panel Discussion QatarEnergy LNG's Environmental Water Strategy: Opportunities & Challenges |
| 11:40 - 13:00 | PRAYER / LUNCH BREAK (Conference Hall) |
| 13:00 - 14:00 | Technical Panel Discussion Energy Efficiency & Yield Improvement |



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Day 2 Panel Discussion Agenda: 24th September 2025 Main Theatre (Al Mayassa)

| Time | Topic | Moderator | Panelists |
|---------------|--|-----------------|---|
| 08:25 -09:25 | Main Technical Panel Discussion Life Cycle Management | Ibrahim Bawazir | Abdulla Al-Hajri QatarEnergy LNG Abdulla Al-Subaie QatarEnergy LNG Chad Rasmussen ExxonMobil Noora Al-Derham QatarEnergy LNG |
| 10:40 - 11:40 | Technical Panel Discussion QatarEnergy LNG's Environmental Water Strategy: Opportunities & Challenges | Nayef Al-Briki | Farhan Khan QatarEnergy LNG Sabah Solim Qatar Shell Mashaal Al-Mass ConocoPhillips Suhur Saeed ExxonMobil |
| 13:00 - 14:00 | Technical Panel Discussion Energy Efficiency & Yield Improvement | Khalid Al-Hajri | Hazim Al-Muraikhi QatarEnergy LNG Meshal Al-Saoud QatarEnergy LNG Mohammed Shikari QatarEnergy LNG |



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Day 2 Technical Presentations: 24th September 2025

| Time | Conference Agenda | | | |
|---------------|---|---|---|--|
| Room No | Meeting Room 103 | Meeting Room 104 | Meeting Room 105 | Meeting Room 106 |
| Topic | Digitalization, Cyber Security & Artificial Intelligence (AI) | Decarbonization Initiatives | Aging Production Facilities & Asset Life Extension | Energy Efficiency & Yield Improvement |
| 10:00 - 10:30 | Artificial Intelligence Parvatharajan Shanmugam ExxonMobil | Decarbonized Heat Production for LNG plant Stéphane Lehn TotalEnergies | Subsea Pipeline Damage Assessment and Repair Alan Christie QatarEnergy LNG | Proven Technology of Mixed Refrigerant for Liquefaction of Natural Gas with 30% Energy and Cost Saving Including Digitalization Ahmed Sleiti Qatar University |
| 10:40 - 11:10 | Streamlining Well Surveillance: Digitalization, Automation & Optimization of Production Data Meshaal Al-Rashid QatarEnergy LNG | Strategic Design and Optimization of Sustainable and Cost-Efficient Hydrogen Supply Chain Networks: Qatar Case Study Mohamed Amjath ExxonMobil & Qatar University | | Harmonic Analysis and Filter Design: Engineering Challenges and Solution Rajendra Chavan QatarEnergy |
| 11:20 - 11:50 | Digital for Optimization of Production Performance – A Case by TotalEnergies Joao Raulino TotalEnergies | Cu-Ni Nanoalloy-Coated Mesoporous Carbon Catalysts: A Promising Strategy for Sustainable Energy Generation and Carbon Dioxide Reduction Ala Alardah Qatar University | | An Overview of ExxonMobil's Successes in Debottlenecking Oil and Gas Plants in Operation Erik Clayton ExxonMobil |
| 11:50 - 13:00 | PRAYER / LUNCH BREAK | | | |
| 13:00 - 13:30 | Leveraging AI Predictive Analytics for Reliability Excellence Naser Al-Manna'ei QatarEnergy LNG | Eco-Friendly Transformation of End-of-Life Membranes: A Sustainable Approach for Industrial Wastewater Treatment and Asset Life Extension Abed Alkader Alkhousaam Hamad Bin Khalifa University | Aging LNG Facilities and Life Extension Environmental Challenges Farhan Khan QatarEnergy LNG | |
| 13:40 - 14:10 | Physics-Informed Neural Network for Accurate Prediction of Transformer Insulation Degradation in the Oil and Gas Industry Alamera Alquennah Texas A&M University at Qatar & Hamad Bin Khalifa University | QAFAC Carbon Dioxide Recovery Plant Mubarak Malhiya QAFAC | Smart Failure Prediction and Corrosion Inhibition System for Aging LNG Facilities Abdul Naser Rabie Qatar University | |
| 14:20 - 14:50 | Use of AI & ML in Process Industry Madhavan Shanmugam QCHEM | A Review on a Multiphase Twin Screw Pump Technology for Downhole Wet Gas Compression Niraj Baxi QatarEnergy LNG | QatarEnergy LNG South Pipelines Finite Element Analysis Teslim Salami QatarEnergy LNG | Virtual Flame Scanner Algorithm Method for Gas Turbines' Combustion Flame Sensing Naveen Kaki QatarEnergy LNG |



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Day 2 Posters: 24th September 2025

| Screen Number | Title | Company |
|---------------|--|---|
| 1 | Enhancing Reliability and availability to Drive Production Efficiency in Oil Facilities | QatarEnergy |
| 2 | Characterization of Hydrogen Gas in Well Annuli for Sustainable and Safe Operations | QatarEnergy LNG |
| 3 | Operational Optimization Opportunities for GHG Mitigation: A Review of QatarEnergy LNG South Utilities | ExxonMobil & QatarEnergy LNG |
| 4 | Corrosion Assessment Study on Excessive Scaling in FCW HES Tube Bundles | QatarEnergy LNG |
| 5 | Micro KPI Implementation: An Enhanced Approach for Planning and Measuring Activities Performance in Wells | Qatar Shell |
| 6 | Digital Twin Technology in Oil and Gas | QatarEnergy LNG |
| 7 | Providing insights for Reservoir Management and Field Development: Case Study of a Mature Oil field, Offshore Qatar | North Oil Company |
| 8 | Facility Assessment and Life Extension initiatives for Main Cryogenic Heat Exchangers (MCHE) | QatarEnergy LNG |
| 9 | Successful Pilot Phase of Integrated Asset Management for a Giant Offshore Field | North Oil Company |
| 10 | Interactive Reports with Data Visualization Tools | QatarEnergy LNG |
| 11 | Optimizing C2 Splitter Performance: A Case Study on Exchanger Underperformance | QChem |
| 12 | Offshore Damage Cable Repair | QatarEnergy LNG |
| 13 | The Critical Role of Advanced Alarm Management Systems in Enhancing Human Oversight for Asset Protection | QAPCO |
| 14 | Operational Adaptations in Aging LNG Facilities: A Case Study in Risk Mitigation and Reliability | QatarEnergy LNG |
| 15 | Leveraging Artificial Intelligence and Digital Twin Technology for Enhanced Predictive Maintenance in LNG Operations | Qatar University |
| 16 | QatarEnergy LNG Threat Intelligence Journey | QatarEnergy LNG |
| 17 | Additive Manufacturing for a Resilient and Competitive Energy Sector in Qatar | Hamad Bin Khalifa University |
| 18 | Theoretical and Practical Approach of Distillation Column Temperature Control Tray Selection to Maximise Product Yield and Optimise Reboiler Duty During Feed Stream Flow and Composition Disturbances | QatarEnergy LNG |
| 19 | Synthesis and Evaluation of Efficient 3D-Printed Catalysts for Application in Chemical Sequestration of CO2 to Produce Synthetic Natural Gas | University of Doha for Science & Technology |
| 20 | Tr-1&2 Breakthrough Test Evaluation and Recommendation for Extending Mole Sieve Operation from 4 to 5 Years | QatarEnergy LNG |
| 21 | Wastewater Recycling Initiative In QatarEnergy LNG South Facility | QatarEnergy LNG |

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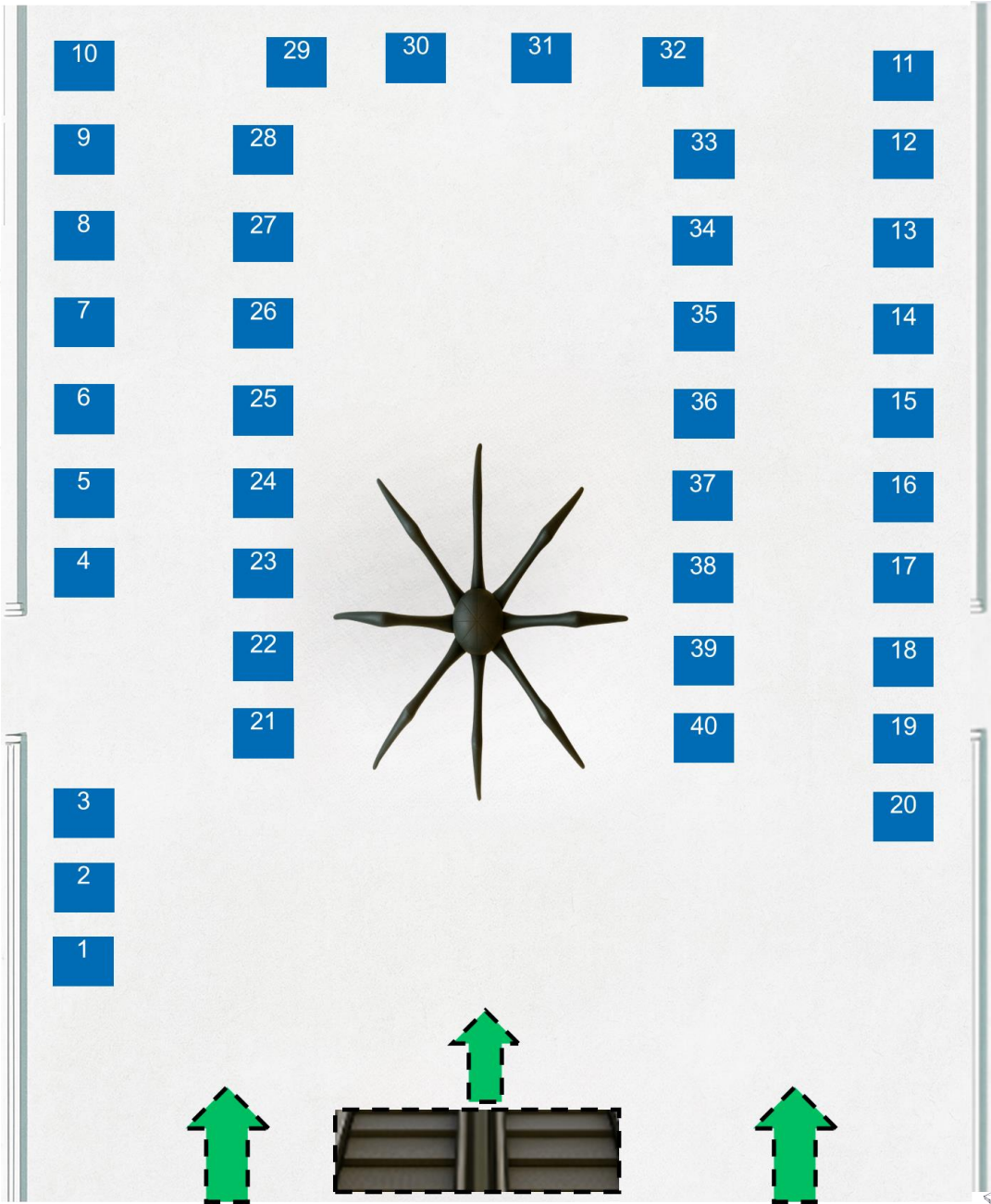
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| Screen Number | Title | Company |
|---------------|---|------------------------------|
| 22 | 11-¾" Liner Application in North Field Well Architecture | QatarEnergy LNG |
| 23 | Operational Technology Security: A Strategic Approach to Security Operations Centers in the Oil and Gas Industry | ExxonMobil |
| 24 | CO ₂ Injection in QatarEnergy LNG: A Case Study on Performance, Challenges, and Lessons Learned | QatarEnergy LNG |
| 25 | High Fin Shell & Tube Heat Exchangers (HFSTHX) | Qatar Shell |
| 26 | Design Safety Case Operationalization | QatarEnergy LNG |
| 27 | Digital-Enabled Approach for Systematic Reservoir Management in a Complex Newly Developed Tight Carbonate Reservoir: Insights from, Al-Shaheen Field, Qatar | North Oil Company |
| 28 | Enhancing Drifting Strategy for Well Interventions | QatarEnergy LNG |
| 29 | Second Successful Field Pilot of Wettability altering surfactant EOR in an Oil Wet Carbonate Reservoir : A Case Study of Enhancing Production from a Mature Field | North Oil Company |
| 30 | Milestone to Fortify Warm Ends of LNG Trains To Ensure Seamless Transition Into Future Feedgas' | QatarEnergy LNG |
| 31 | Improving Mechanical Integrity, Reliability & Process Safety through RBI Program Implementation | QChem |
| 32 | New Subsea Technologies | QatarEnergy LNG |
| 33 | Process Safety Excellence | QAFCO |
| 34 | 24F0921 60" inlet line cracked and F921 burner chamber hole | QatarEnergy LNG |
| 35 | Design of Dichalcogenide Alloy for Highly Efficient CO and CO ₂ Adsorption During Oil and Gas Production | Qatar University |
| 36 | Pipeline Hydrate Management: Beyond Chemical Inhibitor Optimization | QatarEnergy LNG |
| 37 | Transforming Animal Waste into Renewable Biofuel: A Sustainable Solution for LNG Operations | Qatar University |
| 38 | Self-Propelled Tool Prototype for Piping and Pipeline Inspection: Advancing Efficiency, Sustainability, and Safety in the LNG Sector | QatarEnergy LNG |
| 39 | Physics-Informed Neural Network for Predicting the Lifetime of Stator Winding Insulation in MV/HV Induction Machines | Texas A&M University – Qatar |
| 40 | TorcPlug Journey Unlocking NFE Potential | QatarEnergy LNG |

Posters Map: Central Foyer



Screen number reference



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Exhibitors



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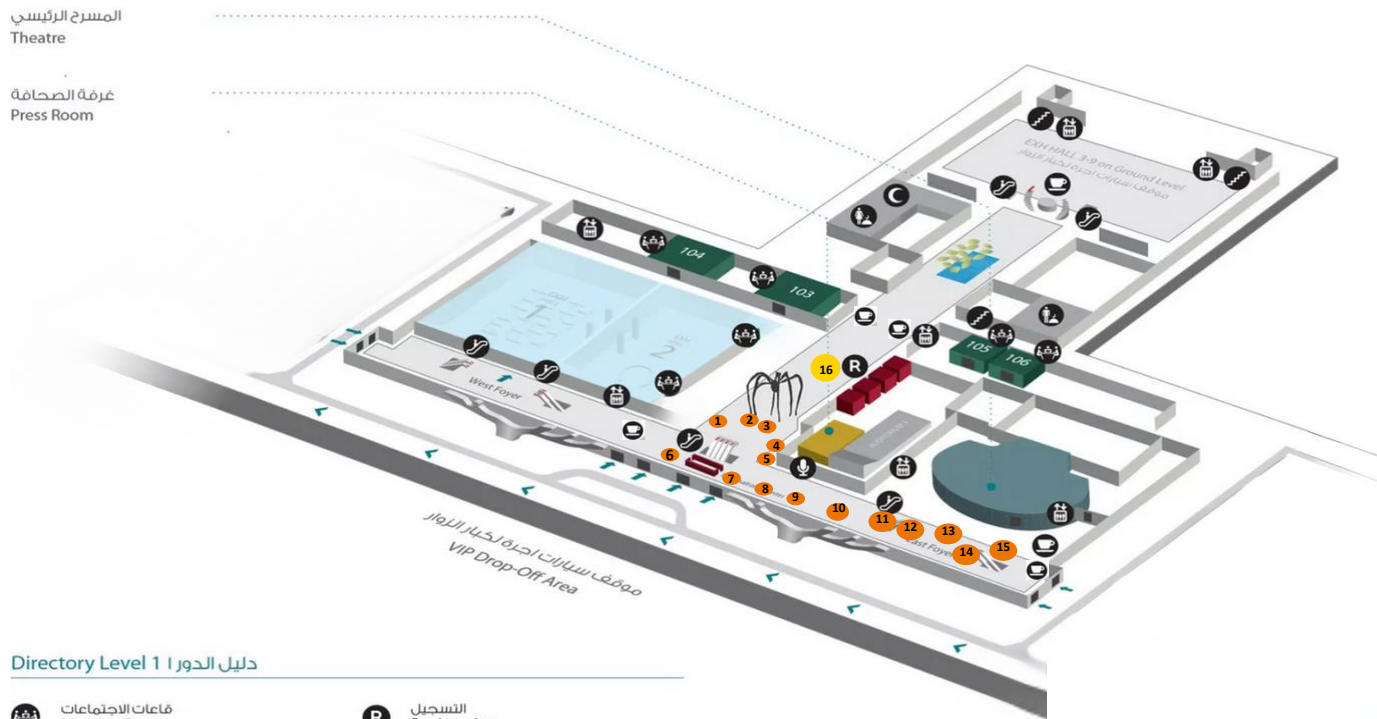


Venue Map (Level 1)

مركز قطر الوطني للمؤتمرات
Qatar National Convention Centre

المسرح الرئيسي
Theatre

غرفة الصحافة
Press Room



Directory Level 1 | دليل الدور

- Meeting Rooms
- Elevators
- Stairs
- Escalators
- Cafe
- Underground walkway to car park
- Bus drop-off point
- Baggage drop-off
- Registration
- Box Office
- Male Prayer Room
- Female Prayer Room
- Press Room + Business Centre Lounge
- Medical Centre

Exhibitors Booths

- 1 QATARENERGY LNG
- 2 EXXONMOBIL
- 3 TOTALENERGIES
- 4 CONOCOPHLLIPS
- 5 BAKER HUGHES
- 6 SCHNEIDER ELECTRIC
- 7 EMERSON
- 8 UNIVERSITY OF DOHA FOR SCIENCE AND TECHNOLOGY
- 9 QATAR UNIVERSITY
- 10 SLB
- 11 HONEYWELL
- 12 HALLIBURTON
- 13 INNOMOTICS
- 14 STATS GROUP
- 15 ABB
- 16 POSTER EXHIBIT

Meeting Rooms

- Meeting Room 103
- Meeting Room 104
- Meeting Room 105
- Meeting Room 106

