

PROGRAMME SCHEDULE

28th **Energy Technology Meet**

28th - 30th October - 2025

HYDERABAD INTERNATIONAL CONVENTION CENTRE (HICC), HYDERABAD,
INDIA

**ENERGISING VIKSIT BHARAT THROUGH
SUSTAINABLE REFINING**

28th Energy Technology Meet

Registration

Date

Time

Venue

27 October 2025

1700 – 2000 hrs

Hyderabad International
Convention Centre

28 October 2025

0730 – 1800 hrs

Hyderabad International
Convention Centre

29 October 2025

0730 – 1100 hrs

Hyderabad International
Convention Centre

Programme

28TH OCTOBER, 2025



Inaugural Session & Presentation of Awards

1030 - 1130 hrs

Venue: Hall-A

Inauguration: Digital Poster Gallery and Exhibition Stalls

1130 - 1145 hrs

Venue: Exhibition Hall



Hi-Tea

1145 – 1200 hrs

28th Energy Technology Meet

28TH OCTOBER, 2025

Technical Session – 1 (Theme Session)

1200 – 1330 hrs

Venue: Hall-A

Driving Refining toward a Sustainable Future

Session Chairperson:

Mr. Arvind Kumar

Director (Refineries), Indian Oil Corporation Ltd.

Technical Papers

- 1.1 Changing Energy Landscape**
Mr. Partha Maitra, RIL
- 1.2 Securing the Transition: Aligning Energy Security with Decarbonization**
Mr. Gurminder Singh, Shell
- 1.3 Driving refining towards a sustainable future**
Mr. Siddhartha Saha, Axens
- 1.4 Driving refining towards a sustainable future**
Mr. Rajesh Samarth, CLG
- 1.5 Changing global Energy Landscape**
Mr. Keith Couch, Honeywell UOP

Lunch

1330 – 1430 hrs

Programme

28TH OCTOBER, 2025

Panel Discussion-1

1430 – 1600 hrs

Venue: Hall-A

Navigating evolving energy landscape: Emerging Trends & Strategic Positioning

Session Moderator:

Ms. Vartika Shukla

CMD, Engineers India Ltd.

Panel Speakers

- 1 **Mr. Bhaskar J Phukan**, MD, NRL
- 2 **Mr. S. Bharathan**, Director (R), HPCL
- 3 **Mr. Matt Spalding**, Vice President, Honeywell UOP
- 4 **Mr. Anders Norup Olsen**, Senior Vice President, TOPSOE A/S
- 5 **Mr. Marc Nicolas**, Director, Ketjen
- 6 **Mr. Gaurav Srivastava**, Regional Head, S&P Global

Lunch

1330 – 1430 hrs

28th Energy Technology Meet

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Panel Discussion-2

1630 – 1800 hrs

Venue: Hall-A

Powering Refining and Petrochemicals towards Excellence and Agility

Session Moderator:

Mr. R Ramachandran

Ex Director (R), BPCL

Panel Speakers

- 1 **Dr. Alok Sharma**, Director R&D, IOCL
- 2 **Mr. Prabh Das**, HMEL, CEO
- 3 **Mr. R K Singhal**, Director (BD), GAIL
- 4 **Mr. Kumaravelu**, Balachandran, Baker Hughes
- 5 **Mr. Bharat Goenka**, Regional Vice President, Nextchem
- 6 **Mr. Rajesh Samarth**, CEO, CLG
- 7 **Mr. Vipin Goel**, MD, Grace

Dinner
1930 hrs

Programme

28TH OCTOBER, 2025

Digital Poster Session – 1 Exhibition Hall

Duration for display - 1200 to 1800 hrs

- 1 e-conversion of existing fired heater**
Rohit Kumar, Axens
- 2 Drop-in Liquid Sustainable Aviation and Automotive Fuel (DILSAAF™):
Enabling Cost-Effective Decarbonization of Aviation and Transport Sectors**
Dr Mahak Dhiman, CSIR-IIP
- 3 CarbonOne as Pioneering Carbon Capture and Utilization technology for
Sustainable Future**
Anandh Mathew, Caliche Private Limited
- 4 Purification of Green Hydrogen from Electrolysers & Compressed Biogas (CBG)
Upgradation Through Catalytic Oxidation**
Harish Bhupathi, Engineers India Ltd.
- 5 A Novel Multi-metal catalyst for Production of Electrically Conductive Few Walls
Carbon Nanotubes**
Seshubabu Narayanam, IOCL
- 6 UOP Independent Recovery max Solution**
Srinivasan Ramanujam, Honeywell UOP
- 7 Ind-CokerAT: Petcoke Reduction Technology for Achieving Net-Zero Goal**
Prantik Mondal, IOCL
- 8 Production of low Carbon Fuels through eREACT™ - A game changer technology**
Sayani Sadhukhan, Topsoe
- 9 Sustainable Aviation Fuel: Operational Challenges, Techno-economic Analysis, and
Life Cycle Analysis for GHG emission**
Debashis Thakur, NRL

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- 10 Polyaromatic hydrocarbons based synthetic heat transfer fluid: Synthesis and stability studies**
Krishna Vankudoth, IOCL
- 11 All Volatile Treatment program for Steam generation system in Refineries**
Manindra Pratap Singh, IOCL
- 12 Driving Industrial Decarbonization: NASH Vacuum Technology Role in India's Net Zero Ambitions**
Irfan Khan, Ingersoll Rand (NASH)
- 13 Depolymerisation for Circular Plastics Economy - Demonstration of India's First Indigenous PET Plastic Chemical Recycling Technology**
Jatin Yadav, MRPL
- 14. Catalytic Co-pyrolysis of Post-consumer Plastic Waste and Lignocellulosic Biomass for Enhanced Biofuel Production: A Novel Approach**
Suresh Sundaramurthy, MANIT Bhopal
- 15 Large Scale Production of Multi Wall Carbon nanotubes & CO_x free H₂ production from low-value liquid petroleum feedstocks and Its applications**
Samala Bhanumurthy, IOCL
- 16 Biomass Valorisation**
Geetali Kalita, NRL
- 17 Turning Flexibility into Opportunities in e-Methanol Production: A Techno-Economic Optimization Approach for Power-to-X Projects**
Dattesh Kondekar, Technip
- 18 Hydrogen network optimization in Refineries using AL/ML**
Sandeepan Nayak, Tridiagonal Solutions
- 19 Renewable energy-based EV Charging solution at Retail Outlet**
Dr Mahesh Kasture, BPCL
- 20 Boosting Refinery Profitability through latest generation HyBRIM CoMo Catalysts:**
Hussain Lokhandwala, Topsoe

Programme Schedule

Day 2

29th October, 2025

28th Energy Technology Meet

29TH OCTOBER, 2025

Technical Session - 4

0900 – 1045 hrs

Venue: Hall-A

Technology Frontiers in Petrochemicals: Efficiency, Integration & Sustainability

Session Chairpersons:

Mr. Rajiv Agarwal, Director (Technical), EIL

Mr. Sanjay Kumar Papneja, ED (Process Project), IOCL

Technical Papers

- 4.1. **Flexible Routes for Crude to Chemicals at lower CAPEX and OPEX,**
Subhabrata Guru, Chevron Lummus Global LLC
- 4.2. **CC2C Technology**
Aramco, Gopal Juttu and Alexis Paillier, Aramco ASIA/ Axens
- 4.3. **Improving Ethylene Profitability with the Paradigm-Changing UOP NEP Process,**
Abhijit Pal, Honeywell UOP
- 4.4. **Rewiring the Chemicals Value Chain: Pathways in Phenol and Acetyl Chemistry,**
Jing Wang, KBR
- 4.5. **Valorization C4 Cuts through Conser's portfolio: Butyl and halo-butyl rubbers, MAN and Derivatives,**
Simone Morfuni, Next chem
- 4.6. **Advances in PDH technology for sustainable Propylene supply**
Praveen Lokhande, GAIL (India) Ltd

Tea

1045 – 1115 hrs

Programme

29TH OCTOBER, 2025

Technical Session – 5

0900 – 1045 hrs

Venue: Hall-B

Advances in Green Hydrogen value chain, Storage & Transportation

Session Chairpersons :

Dr. Alok Sharma, Dir (R&D), IOCL

Mr. Sachin Chugh, Director, ARUP

Technical Papers

- 5.1. **Strategizing India's Green Hydrogen Commercialization**
Dr. Ajinkya Kamat, IESA
- 5.2. **Green Hydrogen Technologies – Technology, Integration & Scale-up for Industrial Decarbonization**
Samir Saxena, Renew
- 5.3. **Life cycle and techno-economic assessment of green hydrogen production and its use for E-fuels: An Indian perspective**
Prof Yogendra Shastri, IIT, Bombay
- 5.4. **Transforming Refinery Off-Gases into Valuable Hydrogen Source: A successful demonstration of BharatH2Sep Technology in Refinery**
Nitin Somkuwar, BPCL
- 5.5. **Integrated Solutions for the Drying and Purification of H₂ and CO₂**
LI Jonathan, Axens Pvt Ltd
- 5.6. **Type 4 Composites Cylinders Manufacturing – the logistics solutions for Green Hydrogen**
Dr. Ratan Kumar Singh, CECA

Tea

1045 – 1115 hrs

28th Energy Technology Meet

29TH OCTOBER, 2025

Technical Session – 6

1115 – 1300 hrs

Venue: Hall-A

Technology Frontiers in Refining: Efficiency, Integration & Sustainability

Session Chairpersons :

Mr. Sanjay Khanna, CMD, BPCL

Mr. Abhijit Chakraborty ED, IOCL

Technical Papers

- 6.1 Integrating Fertilizer Production into Refinery & Petrochemical Complexes – Driving towards Sustainability**
Chiranjib Halder, Technip Energies India Limited
- 6.2 Empowering India's Refinery–Fertilizer Ecosystem: The Role of WSA (Wet gas Sulphuric Acid) in Achieving India's Industrial Self-Reliance**
Chetan Mittal, Topsoe India Pvt. Ltd.
- 6.3 Linde STARBRIDGE™ Technology – Commercial Design and Implementation of Electric Cracking Furnaces**
Suneel Koul, Linde Engineering India Pvt Ltd
- 6.4 Harnessing Waste Heat for Improved Efficiency**
Soumendra Banerjee, Honeywell UOP
- 6.5 Novel Methodolgy & Approach Devised By EIL to Select Optimum Revamp Configuration of CDU with Lowest Energy Number In India**
Abhijit K. Ram, Engineers India Ltd.

Lunch

1300 – 1400 hrs

Programme

29TH OCTOBER, 2025

Technical Session – 7

1115 – 1300 hrs

Venue: Hall-B

Advances in Bio Refining and Clean Fuels

Session Chairpersons :

Mr. P.S. Ravi, Director, FIPI

Mr. V K Maheshwari, ED (R&D), HPCL

Technical Papers

- 7.1 **Promoting LNG as the Energy Transition Fuel in Transportation Sector,**
Tanuj Sharma, Invest India
- 7.2 **Second Generation (2G) Ethanol Bio-Plants: Troubleshooting with Novel Distillation Tray Design**
Ramaniya Gorle/Ritesh Mittal, Engineers India Ltd.
- 7.3 **Waste to Wealth: Sustainable Green Silica Production from 2G Biorefinery Boiler Ash,**
Dr. Parmeshwar Patil, BPCL
- 7.4 **Transforming Plastic Waste into Fuel by Demonstration of Plastic Pyrolysis Oil Co-processing in FCCU with Environmental Gains**
A Ramanathan & Hemant Mishra, HPCL
- 7.5 **Biorefining of lignocelluloses for bioenergy and bioproducts**
Dr. Sachin Kumar, HBTI

Lunch

1300 – 1400 hrs

28th Energy Technology Meet

29TH OCTOBER, 2025

Digital Poster Session – 2

Exhibition Hall

Duration for display - 0930 to 1300 hrs

- 1 Applications of Sanicro 35: A Super austenitic Stainless Steel with Excellent Performance to Cost Ratio**
Ganesh Prasad, Alleima
- 2 Ultra-Critical Video Analytics (UCVA) Solution for BPCL Refineries**
Abhilipsa Priyadarshini, BPCL
- 3 LASER CLEANING – A Sustainable Alternative for Shot Blasting & Chemical Cleaning in BPCL Kochi Refinery**
Gokul Krishnan G, BPCL
- 4 Role of Microalgae as a promising alternative source of energy**
Sreevidya R V, Engineers India Ltd.
- 5 Scaleup and integration of indigenous alkaline electrolyser with Hydrogen Refuelling Station: Advancing India's green Hydrogen Infrastructure**
Ram Babu Gutru, BPCL
- 6 Transition of Margin Improvement tool to advanced Cloud Based Unified PIMS platform**
Prakash Kumar, BPCL
- 7 Unlocking Biomass Potential: Thermostable LPMOs Enhance Cellulase Performance for Sustainable Biofuel Production**
Dr. Bhawna Madan, BPCL
- 8 HDPE Plant By-product /waste into Specialty Waxes (paraffin/ microcrystalline waxes etc) and Lubricating Oil Base Stocks (LOBs) for Multipurpose Grease Formulations**
Dr. Manisha Sahai, CSIR-IIP
- 9 Engineering High-Performance Mixed Matrix Membranes for CO₂ Capture**
R. Surya Murali, CSIR-IIP

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- 10 Sharing of Indigenous Technology Development and Innovations- Indigenous Technology Development and Innovations**
Suhas Nair, Dorf-Ketal
- 11 Petroleum Coke-Derived Graphene: A High-Value Material for Next-Generation Energy Storage in India's EV Transition**
Sonal Maheshwari, BPCL
- 12 Innovative ways of water management in refinery cooling water systems with highly effective, eco-friendly and novel multifunctional polymer based comprehensive water treatment package**
Siva Kesava Raju Chinthalapati, HPCL
- 13 INDEcoP2F: Technology for Environment friendly conversion of plastic waste into fuels for a circular economy**
Pradeep PR, IOCL
- 14 Novel Technology for Enhanced Oil-Water Separation in Refinery Applications**
Shalom Slonim, Turbulent Technologies
- 15 ReVA – Refinery Virtual Assistant: Trusted AI Expert for Operational Excellence in Smart Refineries**
Praveen P, MRPL
- 16 Alloy 699XA: An Advanced Tubular Material for Metal Dusting Resistance in Hydrogen Production Environments at Refining and Petrochemical Applications**
Shabareesh Nair, TUBACEX
- 17 RIL DTA Refinery - Flare gas recovery by inhouse developed scheme**
Dipak D. Shukla, RIL
- 18 Creating a Crude Oil Inventory Management Program (COIMP) using MS Excel & AI**
Sachin Pal, BPCL
- 19 Vacuum-Assisted Operation: A Practical Approach to Reducing Reboiler Fouling in Refinery Units**
Priya Majumdar, Engineers India Ltd.
- 20 Reduction in Fresh Water Consumption in BPCL Kochi Refinery – A Success Story**
Rajesh Kumar Ramamoorthy, BPCL

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29TH OCTOBER, 2025

Technical Session – 8

1400 – 1545 hrs

Venue: Hall-A

Driving Innovation for Operational Excellence and Reliability

Session Chairpersons:

Mr. Prasad Panicker, Chairman, NAYARA Energy Limited
Mr. Abhay Raj Singh Bhandari, ED Mumbai Ref, BPCL

Technical Papers

- 8.1 Enhancing Predictability in Refining and Petrochemical Project Execution: A Global Approach to Overcoming Challenges and Adopting Best Practices**
Manoj Prabhakar, Independent Project Analysis
- 8.2 Transforming Refinery Planning: BPCL's Journey from Basic Crude Assay Management to Advanced Operational Optimization with AVEVA Spiral**
Shekhar Gunwal, BPCL
- 8.3 LLM Powered Crude Oil Blend Yield Prediction**
Varun Nidhi, Kinben Innovation Pvt. Ltd
- 8.4 Rational Catalyst Design via DFT for JP-10: Enabling Indigenous High-Density Defense Fuel Production,**
Naresh Kottari, HPCL
- 8.5 An Effort towards De-carbonization in Oil&Gas Industries with Heavy-Duty Gas Turbines Burning up to 100% Hydrogen,**
Dullal Ghosh, Baker Hughes India
- 8.6 Advancement in Polyolefin Catalyst and Process Innovation**
Manish Sarashwat, LyondellBasell

Tea

1545 – 1615 hrs

Programme

29TH OCTOBER, 2025

Technical Session – 9

1400 – 1545 hrs

Venue: Hall-B

ESG Integrated Refining

Session Chairpersons:

Mr. M K Biswas, ED, GAIL

Mr. Satyam Priyadarshy, CEO

Technical Papers

- 9.1 **Transforming Crude into Value: FCC Innovation for Petrochemical-Driven Refining**
Corbett Senter, BASF India Ltd.
- 9.2 **From Idle to Impact: Repurposing Hydrogen Assets into High-Value Syngas Production**
Shailendra Ghuryani, Topsoe India Pvt. Ltd.
- 9.3 **Scale-Up & Demonstration of Bio Catalysed CO2 Capture Technology**
KB Srinivas, IOCL R&D
- 9.4 **Advancing Energy Efficiency with Orcan Organic Rankine Cycle (ORC), Waste Heat to Clean Electricity**
Sadegh Arefi, Orcan Energy, Germany
- 9.5 **Catalytic Water Activation for Refinery Water and Waste Water Treatment: TWA Technology for Sustainable Petroleum Operations**
Reepal Joshi and P.K. Taneja, MyTWA Aqua Solutions Pvt. Ltd.
- 9.6 **Unlocking Clean Energy Security Utilizing Coal and Biomass: The Allam-Fetvedt Cycle's Role in Reliable Polygeneration**
P Adiga, 8 Rivers Capital, LLC

Tea

1545 – 1615 hrs

28th Energy Technology Meet

29TH OCTOBER, 2025

Technical Session – 10

1615 – 1800 hrs

Venue: Hall-A

Sustainable Aviation Fuel (SAF)

Session Chairpersons:

Dr. R K Malhotra, President, HAI

Mr. Siddharth Jain, VP, Emarat

Technical Papers

- 10.1 **Innovative Paths to Cleaner Skies,**
Sakthivelan Durai, Honeywell UOP
- 10.2 **Meeting India's SAF Demand through Waste-to-SAF and e-SAF
Production: Unlocking the Fischer-Tropsch Pathway with Velocys Technology.**
Craig Harris, Velocys Inc
- 10.3 **Most optimal pathways for production of SAF**
Raju Chopra & Manish Das, Topsoe A/S.
- 10.4 **Novel Renewable Feedstock Treatment Enabling Low-Cost Production of SAF
via Co-Processing in Refineries**
Soumitra Deshmukh, Sulzer Chemtech USA
- 10.5 **From Molecules to Miles: A Unified Approach to Green Fuels, Petrochemicals &
Polymers,**
Vishal Varshney, LUMMUS
- 10.6 **Advancing Sustainable Aviation Fuels through biomanufacturing**
Dr Palak Dugar, Visolis

Programme

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Technical Session – 11

1615 – 1800 hrs

Venue: Hall-B

Innovations in Refining

Session Chairpersons:

Mr. Kaushik Singha, ED (R&D), IOCL

Mr. Mukesh Sahdev, CEO, XANALYSTS

Technical Papers

- 11.1. **Refining the Future: Catalytic Innovation in India's Evolving Energy Landscape,**
Carel Pouwels, Ketjen
- 11.2. **Super Human - Integrating all key refinery applications and key documents**
Shamik Bhattacharya, BPCL
- 11.3. **Reliability improvement with more agile, cost-efficient and effective operations in Refineries through blend of 'Innovations & Research**
Hans Zettler, HTRI
- 11.4. **Challenges of Scaling up Blue Hydrogen**
Siddhartha Bandyopadhyay, Bechtel India Pvt. Ltd
- 11.5. **Accelerating Indigenous Technology Commercialization: Case Studies on challenges and pathways**
Deepak Kumar Jha, HPCL

28th Energy Technology Meet

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Digital Poster Session – 3 Exhibition Hall

Duration for display - 1400 to 1730 hrs

- 1 Enhancing Energy Efficiency: A Novel Approach in PFCC Main Fractionator and Gas Plant Operation**
Adharsh R, BPCL
- 2 Profit Improvement Program for Petrochemicals**
Mayur Talati, KBC
- 3 De-aromatized Solvents from World's First Dual Dividing Wall Column for the First Time in the History of Indian Refining Sector**
Ratheesh S, BPCL
- 4 A Digital-Twin model to Investigate Flame Dynamics in a Crude Heater Firebox Effects of Fuel Distribution, Air Supply, and Burner Choking**
Pavan Thakare, Engineers India Ltd.
- 5 Utilizing Hydrocracker to enhance Refining - Petrochemical Integration and Navigate Energy Transition**
Deepak Agarwal, Shell Catalysts
- 6 Dual Energy Symphony: Seamlessly fueling Refinery (Crude - Black Oil) and Petrochemical Plant (Naphtha -White Oil) Feed requirement through batch-wise transportation in single cross-country pipeline**
Dhiraj Agrawal, HMEL
- 7 Towards Net Zero: Advanced CDU–VDU Configuration for Optimized Performance and Energy Use**
Ramanayya Gorle, Engineers India Ltd.
- 8 Achieving Net Zero through Diesel Iso Therming® Excellence: A Case Study**
Shweta Sukhdeve, HPCL
- 9 Boosting Margins with Intelligence: HPCL's Reliability & Optimization Success Story**
Phanishwar Kumar, HPCL

Programme

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- 10 Integrating Operational Safety in Refinery Engineering Projects: Advancing Inherent Safety and Risk-Based Design**
Ajoy Tiwari, IOCL
- 11 Implementation of online corrosion monitoring system in Urea synthesis piping and prospects for further applications**
Sho Kubota, Toyo
- 12 Pioneering Net Zero: Guwahati Refinery's Strategic Approach to Electrical System Optimisation and Grid Integration**
Saswat Mahapatra, IOCL
- 13 Maximizing Petchem Output from Fluid Catalytic Cracking Units**
Mukund Balachandran, WR Grace
- 14 Fulfilling India's Sustainable Aviation Fuel (SAF) requirement by ATJ pathway and valorising Waste via CIRCULAIR**
Vineet Bakshi, LanzaTech
- 15 Capturing Additional Value from Your Hydrogenation Unit**
Amir Taiyabi, Shell Catalysts
- 16 Replacement of 3 stages vacuum ejectors system with Mechanical Vacuum Pump in Lube Oil Unit**
Harmeet Singh, HPCL
- 17 Pioneering ISCC CORSIA Certification in India for SAF Production by Co-processing**
Dr Y S Jhala, IOCL
- 18 Flare system Pre commissioning and Commissioning**
Anoop Kumar, HPCL
- 19 From Inspection to Action: CFD Solutions for Refinery Equipment Reliability**
Arun Kumar, BPCL
- 20 Engineering the Energy Transition: GAIL's Technology-Led Net Zero Strategy**
Mukul Gupta, GAIL

Programme Schedule

Day 3

30th October, 2025

Programme

30TH OCTOBER, 2025

Technical Session - 12

0900– 1045 hrs

Venue: Hall-A

Accelerating Indigenous Technology Development

Session Chairpersons:

Mr. Anil Kumar, ED (R&D), EIL

Mr. A T Naidu, ED - HPCL

Technical Papers

- 12.1 HP-COAT: Breakthrough Single Step Crude to Chemicals Technology Advancing Towards Demonstration Plant**
Somanath Kukade, HPCL
- 12.2 Crude Oil Selection for Crude Oil to Chemical 'CoTC' Complexes**
Himanshu Sharma, Engineers India Ltd.
- 12.3 Synthetic Natural Gas (e-Methane) from CO₂ Hydrogenation: Advances in Catalysis and Pathways for Sustainable Energy Transition**
T Nanda Kumar, GAIL (India) Ltd
- 12.4 Ethylene Production Pathways to Net Zero**
Samya Gupta, BPCL
- 12.5 Scaling up AEM Electrolyzers to Megawatt Capacity – Key Challenges and Mitigation Strategies**
Bharati Panigrahy, HPCL

Tea

1045 – 1115 hrs

28th Energy Technology Meet

30TH OCTOBER, 2025

Technical Session - 13

0900 – 1045 hrs

Venue: Hall-B

Innovation in Catalysts and scaling lab to field

Session Chairpersons:

Dr. Alex Pulikottil, ED (PC & CAT), IOCL R&D

Mr. N Chandrashekhar, ED (R&D), BPCL

Technical Papers

- 13.1 The Continued Growth of the Ebullated Bed Resid Hydrocracking Process,**
Sid Mohanty, WR Grace
- 13.2 Catalyst Innovation: Shaping a Greener, More Efficient Refining Industry,**
Megha Agrawal, Ketjen
- 13.3 i-ZN22: Pathbreaking Catalyst for Polypropylene Production**
Gurmeet Singh and Rashmi Rani, IOCL R&D
- 13.4 HP NANOPRO: An advanced catalyst for maximizing Propylene and Ethylene yields in FCC reactor**
Pramod Kumar, HPCL
- 13.5 Regenerated Catalyst pool management**
Siddharth Sagar, Eurecat
- 13.6 Next-Generation Acetylene Hydrogenation Catalysts for Steam Crackers: Redefining Selectivity, Stability and Sustainability**
Aravind Narayanam, Sud-Chemie India Pvt Ltd

Tea

1045 – 1115 hrs

Programme

30TH OCTOBER, 2025

Technical Session – 14

1115 – 1300 hrs

Venue: Hall-A

Digital & Deep-Tech Disruption for Resilient Refining

Session Chairpersons:

Mr. R C Agarwal, ED - CHT

Mr. U K Verma, ED, EIL

Technical Papers

- 14.1 Energy Intelligent (EI) Tools for Optimisation of Steam, Power, and Process Systems: Unlocking Energy Efficiency in the Refining & Petrochemical Sector**
Narendra Kumar Paladugu, Engineers India Ltd.
- 14.2 MolOptix.AI REVEAL– Real-Time Molecule-Level Optimization for Smarter Refining and Petrochemicals**
Appanu Sushvanth Reddy, MRPL
- 14.3 Application of IIoT to achieve 'Operational Excellence' in Refinery operation**
Ashwani Malhotra, IIT Delhi
- 14.4 Agentic AI applications for transforming R&D, Operations, Reliability, and Safety in Downstream**
Shailesh Bansal, LUMMUS
- 14.5 The Intelligent Plant: Integrating AI for Smarter Turnarounds, Optimized Inventory, and Enhanced Safety**
Uday Prabhu desai, Detect

Vote of thanks: 1300 - 1330 hrs - Hall - A

Lunch - 1330 – 1430 hrs

28th Energy Technology Meet

30TH OCTOBER, 2025

Technical Session – 15

1115 – 1300 hrs

Venue: Hall-B

Domestic New Product Innovation

Session Chairpersons:

Mr. Nanda Kumar, Director (R), MRPL

Mr. M Jose Chacko, ED, Bina Refinery, BPCL

Technical Papers

- 15.1 Refinery & Active Pharma Intermediate integration - Case study with first indigenous Isobutyl Benzene process technology**
Karthick R, MRPL
- 15.2 Indigineous Technology for Solvents – HPDAK**
Sanjay Lakshman, HPCL
- 15.3 Manufacturing Sulfur Bentonite- a specialty fertilizer product**
Harpreet Singh, IOCL JR
- 15.4 Indigenous Refining Catalysts manufacturing for Self-Reliance- A landmark stride in India's Atmanirbhar Bharat journey.**
Yamini Gupta, IOCL R&D
- 15.5 Driving "Make In India": De-Aromatized Solvent Production at BPCL Mumbai Refinery**
Shubham Gupta, BPCL

Vote of thanks: 1300 - 1330 hrs - Hall - B

Lunch - 1330 – 1430 hrs

Programme

30TH OCTOBER 2025

Digital Poster Session – 4 Exhibition Hall

Duration for display - 0900 to 1300 hrs

- 1 Nitrogen stripping in Kerosene Hydrotreater fractionators**
Ashish Pazare, BPCL
- 2 Replacement of steam tracing with Electrical Heat tracing at BPCL-Kochi Refinery**
Smita Ramakrishnan, BPCL
- 3 Towards Net-Zero Refuelling: Technology Demonstration of a Novel Bharat Petroleum Vapor Recovery System (BPVRS) to Reduce Hazardous Emissions & Creating Value**
Nitin Somkuwar, BPCL
- 4 Industry 5.0**
Nagendra Pratap Singh, IOCL
- 5 High-Performance Engineered Concrete using SCBA: A Circular Economy Approach to Sustainable Construction**
Jatin Hooda, Engineers India Ltd.
- 6 Enhanced energy efficiency using water repellent thermal insulation system**
Subhojeet Ghose, Engineers India Ltd.
- 7 Process Intensified LPG Desulfurization – A Novel Approach**
Uttaran Basak, IOCL
- 8 Performance of yellow oleander methyl ester (YOME) and castor methyl ester (COME) as Lubricity additive in High-Speed Diesel (HSD)**
Bibek Jyoti Borah, IOCL
- 9 Fostering Indigenization in Refining: Successful Deployment of IV-IZOMaxCAT® for Light Naphtha Isomerization at Bongaigaon**
Pushkar Varshney, IOCL
- 10 FLARE REVEAL: AI-Driven Flaring Monitoring for Net-Zero Goals**
Nirmalganesh S, MRPL

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- 11 Cooling tower inspired engineering for low-cost carbon capture**
Omsat Mohanty, MRPL
- 12 TK-930 D-waxTM catalyst - Unlocking the potential of SAF production through bio feeds co-processing**
Sanjeev Bansal, Topsoe
- 13 Carbon Capture Utilisation and Sequestration (CCUS)**
Annapurna Boruah, UPES
- 14 Best Practices in Heat Exchanger Performance Monitoring and the Roadmap Towards Digital Integration in Refineries**
Harshita Gupta, Engineers India Ltd.
- 15 Enhancing Energy Efficiency & profitability in DCU and FCCU units in Refineries through Innovative**
Prabagar Subramanian, DeltaValve
- 16 Innovative Reconfiguration of a Mega Grassroot Integrated Complex by Re-Aligning New Feed & Product Streams for Higher Returns and Project Viability**
Prerana Saha, Engineers India Ltd.
- 17 From Stacks to Solutions- A Bio-Accelerated Carbon Capture Approach for Industrial Decarbonization in India**
Hriday Ranjan Kalita, NRL
- 18 Second Generation (2G) Ethanol Bio-Plants: Troubleshooting with Novel Distillation ray Design**
Ritesh Mittal, Engineers India Ltd.
- 19 Turbulators for Fluid flow manipulation – Focus on Temperature sensitive fluids**
Ashwin Chandarana, Calgavin



purpose only

28th **Energy Technology Meet**

28th - 30th October - 2025

**HYDERABAD INTERNATIONAL CONVENTION CENTRE (HICC), HYDERABAD,
INDIA**



Centre For High Technology

Ministry of Petroleum & Natural Gas
Government of India



Centre For High Technology
Ministry of Petroleum & Natural Gas
Government of India

28th

Energy Technology Meet



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