

2nd National Conclave on Natural Gas And Petroleum Product Infrastructure: Connecting Oil & Gas Markets



26th – 27th March 2025
The Grand Ballroom, The Leela -
Gandhinagar, Gujarat

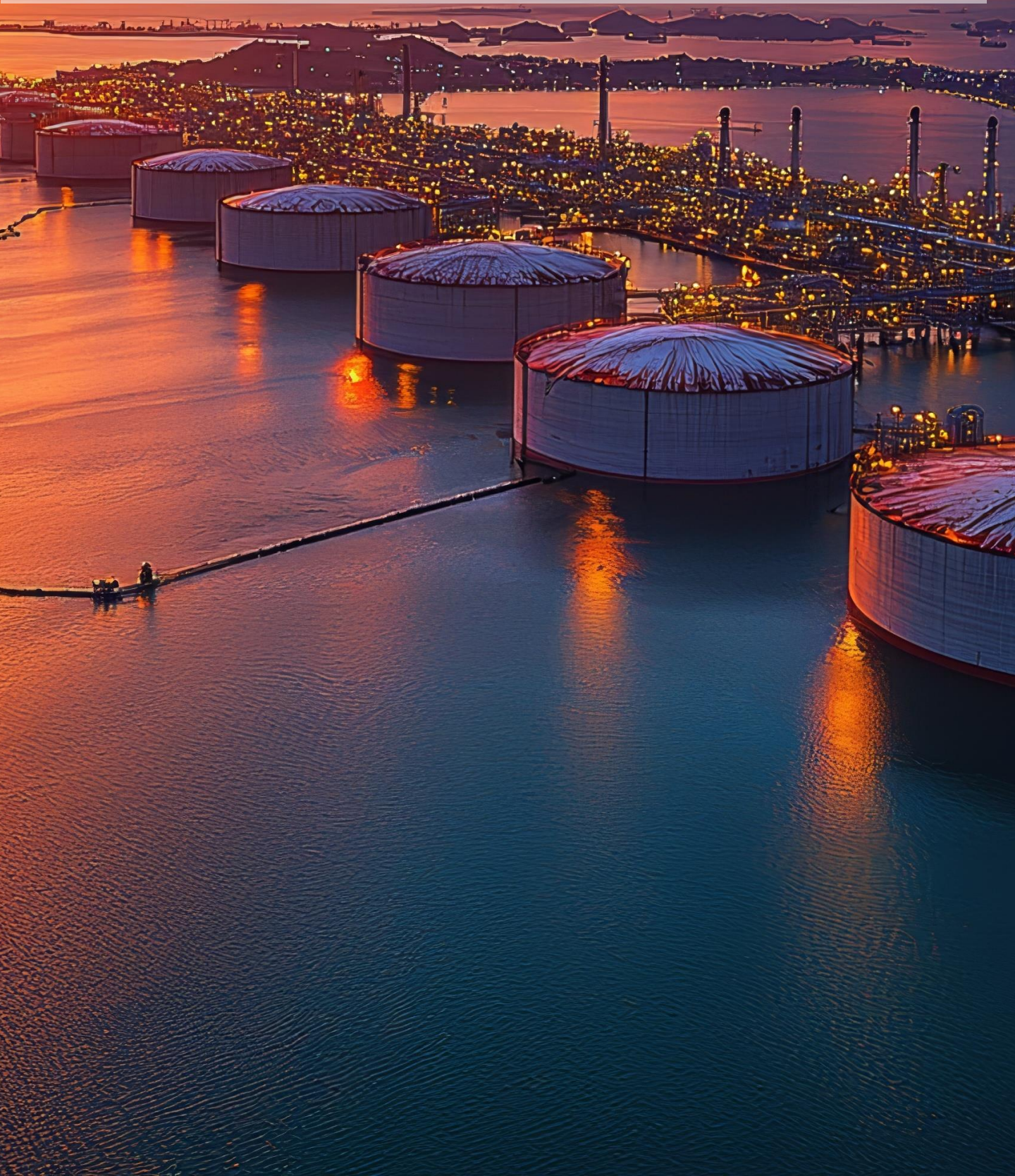


AGENDA



TIME	SESSION
Day 1	26th March 2025 Wednesday
09:30 – 10:30	Registration
10:30 – 11:00	Inaugural Session Welcome & Keynote address
11:00 – 12:15	Session 1: Shaping Gas Vision - 2040 and Embracing Tariff Reforms
12:15 – 13:30	Session 2: Fueling Progress: PNGRB Roadmap For Consumer Protection, Strategic Actions & Monitoring Mechanism
13:30 – 14:30	Networking Lunch
14:30 – 15:45	Session 3: Building India's Next-gen Gas Grids: Infrastructure, Innovation, and Investment for a Sustainable Future
15:45 – 16:00	Tea Break
16:00 – 17:15	Session 4: Accelerating Domestic PNG Growth: Framework for Overcoming Challenges & Achieving MWP Targets
19:30 – 20:00	Experience sharing by Sh. B C Tripathi , Board Member, Essar Oil UK
20:00 Onwards	Cultural Programme along with Dinner hosted by Sh. Pankaj Joshi, IAS, Chief Secretary, Gujarat & Chairman, GSPC Group
Day 2	27th March 2025 Thursday
09:30 – 10:45	Session 5: Future Proofing India's Petroleum Product Pipeline Infrastructure: A Pathway to Efficient Development, Logistics And Access
10:45 – 11:00	Tea Break
11:00 – 12:15	Session 6: Strategic Molecule Sourcing In CGD: Navigating Policy, Market Dynamics, and Infrastructure Solutions
12:15 – 13:30	Reflections Findings of the Conclave Vote of Thanks
13:30 – 14:30	Networking Lunch
14:30 – 17:00	Site Visits – Participants may opt for any one of the four options 1. ATGL SOUL Center 2. GSPL MCR 3. Sabarmati Ashram 4. Dandi Kutir Museum & Adalaj Stepwell

Introduction



Building on the success of 1st Natural Gas and Petroleum Product Infrastructure Conclave: Fostering Growth in Visakhapatnam, Petroleum and Natural Gas Regulatory Board (PNGRB) has come up with **2nd National Conclave on Natural Gas and Petroleum Product Infrastructure : Connecting Oil and Gas Markets.**

PNGRB was established as a statutory body under an Act of the Parliament of India. It regulates the refining, processing, storage, transportation, distribution, marketing and sale of petroleum, petroleum products and natural gas. The Board ensures uninterrupted and adequate supply in all parts of the country and promotes competitive markets.

This conclave aims to bring together Natural Gas Pipeline (NGPL), City Gas Distribution (CGD), and Petroleum & Petroleum Products Pipeline (PPPL) entities onto a unified platform to drive collaborative, actionable strategies for the future of India's oil and gas sector. This edition will go beyond identifying synergies—delving into industry best practices, regulatory advancements, and innovative solutions to optimize infrastructure utilization, enhance returns, and drive sustainable growth.

The discussions will focus on maximizing operational efficiency and capital optimization in an era of constrained resources, while also addressing the critical needs to streamline product supply chain. As third-party access to Petroleum and gas networks gains momentum, the conclave will explore ways to enable greater transparency, promote competition, and achieve better price realization for consumers. Additionally, with emerging energy transition challenges, the discussions will navigate how new technologies, policy frameworks, and infrastructure investments can shape a future-ready natural gas ecosystem.

Welcome Address



**Milind
Torawane
IAS**

*MD
GSPC Group*

Inaugural Address



**Gajendra
Singh**

*Member
PNGRB*

Keynote Address



**Dr. Anil
Kumar Jain
IAS (Retd)**

*Chairperson
PNGRB*

Snippets of Inaugural Edition Conclave at Vizag

**150+
Attendees**

**25+
SMEs**

**6
Sessions**



Snippets of Inaugural Edition Conclave at Vizag

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Session **1**

Shaping Gas Vision - 2040 And Embracing Tariff Reforms

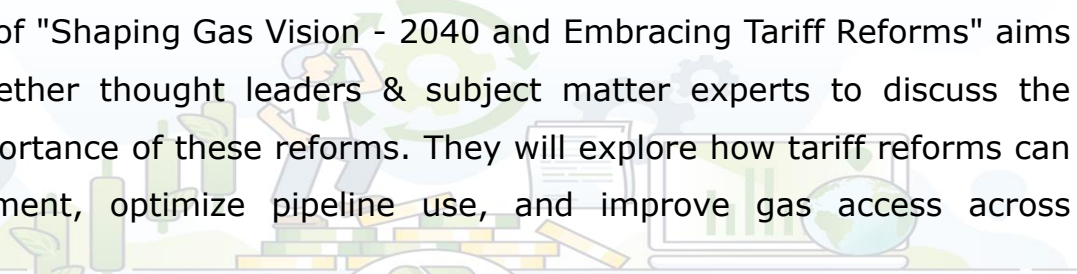


India's natural gas sector is at the forefront of a transformative shift as the country aims for a cleaner, more sustainable energy future. With a target of increasing natural gas's share from 6.1% to 15% by 2030, and our 2070 net-zero commitment, the "Shaping Gas Vision - 2040" initiative is critical. This ambition necessitates a surge in gas consumption across vital sectors: City Gas Distribution (CGD), refineries, power generation, and emerging areas like LNG as a transport fuel. To facilitate this growth, the government is driving reforms that foster a supportive policy landscape, integrating innovative fuels like hydrogen and Compressed Biogas (CBG) to diversify our energy mix and enhance energy security.

The government, through its regulatory actions, has introduced significant reforms to build a strong natural gas market. These include the 2023 Unified Tariff, designed to promote equitable regional development, and the revised domestic gas pricing guidelines, informed by the Kirit Parikh panel, which balance consumer affordability with producer viability. With these reforms in place, this session will focus on identifying the strategic steps needed to realize our 2040 vision and facilitate a seamless energy transition.

By embracing innovative tariff mechanisms and fostering greater public-private collaboration, India can create an efficient, transparent, and investor-friendly gas market that aligns with long-term energy security and sustainability goals.

This session of "Shaping Gas Vision - 2040 and Embracing Tariff Reforms" aims to bring together thought leaders & subject matter experts to discuss the strategic importance of these reforms. They will explore how tariff reforms can drive investment, optimize pipeline use, and improve gas access across industries.



Key Questions for the session

- What are the most effective policy measures and incentives that can be implemented to significantly boost natural gas consumption in India?
- What are the barriers to increasing natural gas consumption, and how can they be overcome through targeted policies?
- How can natural gas play a pivotal role in decarbonizing key sectors such as transportation and industry, and what specific strategies should be prioritized to achieve this goal?
- What are the key sectors which will drive the Natural gas demand in 2030 and 2040 ?
- How can progressive tariff reforms drive investment in India's natural gas sector, and what are the key challenges in implementing these reforms?
- How do unified and zonal tariffs impact the affordability and competitiveness of natural gas in India, and what measures can be taken to balance these factors?

SPEAKERS

MODERATOR



Sanjay Sah
Partner
Deloitte

PANELISTS



Manoj Jain
MD
Torrent Gas
Limited



**Sandeep Kumar
Gupta**
CMD
GAIL India
Ltd



**Dr. Jan
Haizmann**
Founding
Partner
Correggio
Consulting



**Suresh P
Manglani**
CEO
Adani Total
Gas Limited



Nakul Raheja
Country Head
Shell Energy
India

Session 2

Fueling Progress: PNGRB's Roadmap For Consumer Protection, Strategic Actions & Monitoring Mechanism



The Petroleum and Natural Gas Regulatory Board (PNGRB) has played an instrumental role in shaping India's oil and gas sector, ensuring a consumer-friendly, competitive, and transparent energy market. By implementing progressive regulatory frameworks, PNGRB has facilitated infrastructure expansion, market liberalization, and investment opportunities, positioning India as a key player in the global energy landscape.

PNGRB's commitment to consumer protection is evident in its formation of a dedicated consumer protection department, which aims to enhance market efficiency and ensure fair competition, thereby preventing anti-competitive practices and providing affordable and reliable energy. By fostering transparency, PNGRB has boosted investor confidence and innovation. The board has also addressed bottlenecks by establishing the National Center of Hydrocarbon for IT-driven initiatives and additionally, strategic planning department have undertaken high impact studies.

Strategic policy interventions have been instrumental in streamlining regulatory approvals, expediting pipeline and CGD network expansion, and attracting private-sector participation. PNGRB's policies have encouraged private-sector participation, bringing in much-needed investment and expertise to drive the sector forward. PNGRB continues to focus on simplified procedures and proactive policy measures to accelerate energy accessibility and sustainability.

With a robust monitoring framework, PNGRB ensures compliance with safety, environmental, and operational standards. Through regular audits and inspections, the board drives continuous improvements and enforces best practices for a responsible and resilient energy sector. This not only enhances the resilience of the energy sector but also builds public trust and confidence. As India moves towards cleaner fuels and greater energy security, PNGRB's leadership and regulatory oversight will be instrumental in fueling growth, innovation, and consumer empowerment.

Key Questions for the session

- How PNGRB's Regulatory Approach is Enhancing Transparency & fostering Competition in India's Energy Market?
- What are the key policy interventions introduced by PNGRB to enhance consumer protection and ensure fair competition in the oil and gas sector?
- How can PNGRB's efforts in regulating pricing mechanisms improve access to affordable energy for consumers?
- How is IT department at PNGRB playing a key role in digitizing data collection and analysis, positioning PNGRB as the single source of truth and knowledge repository?
- How does PNGRB's monitoring mechanism help maintain safety, environmental, and operational standards across the energy sector?
- What is the outlook for PNGRB as India transitions to cleaner fuels and aims for greater energy security?

SPEAKERS

MODERATOR



Muktikam Phukan
Director-
Technical
PNGRB

PANELISTS



Anjan Kumar Mishra
Secretary
PNGRB



Sunit Verma
Principal
Consultant
PNGRB



Maneesh David Singh
Director -
Statistics
PNGRB



Vikas Sharma
Deputy Director
- IT PNGRB



Lt Col. Kumar Abhishek
Director- CP
& CGD
PNGRB



Session **3**

**Building India's Next-gen Gas Grids:
Infrastructure, Innovation, And Investment
For A Sustainable Future**

India is on the cusp of a transformative era in its energy landscape, with natural gas playing a pivotal role in shaping a cleaner, more connected future. With 195 out of 307 Geographical Areas (GAs) already connected to pipelines, expanding pipeline networks is critical to increasing gas offtake and ensuring widespread accessibility & equitable access. A next-generation gas grid will bridge the infrastructure gap, optimize energy distribution, and integrate seamlessly with renewable sources, creating a resilient, future-ready energy ecosystem.

Innovation and technology will be key drivers in this transformation. Digitalization, automation, and smart grid technologies will enhance operational efficiency, enabling real-time monitoring and demand forecasting. By leveraging AI-driven analytics and IoT-enabled infrastructure, India can create an intelligent and adaptive gas grid that meets evolving consumer and industrial demands.

The adoption of advanced technologies such as AI and IoT will revolutionize the way natural gas is managed and distributed. Real-time monitoring and demand forecasting will allow for more precise control over gas flow, reducing wastage and optimizing supply. Smart grid technologies will enable the seamless integration of various energy sources, ensuring a stable and reliable energy supply. These innovations will not only improve operational efficiency but also enhance the overall resilience of the energy infrastructure.

Scaling up this vision requires strategic investments and financing models. Public-private partnerships (PPPs), Infrastructure Investment Trusts (InvITs), and policy-driven incentives will play a crucial role in accelerating infrastructure development. The session will bring together industry leaders, policymakers, and experts to explore how India can expand its gas grid, embrace cutting-edge technologies, and unlock investment opportunities to fuel a sustainable and economically robust future.

Key Questions for the session

- How can India accelerate the expansion of its gas pipeline networks to ensure equitable access across all geographical areas?
- Role of next-generation gas grids in integrating renewable energy sources and optimizing energy distribution.
- How can digitalization, automation, and smart grid technologies improve the efficiency and resilience of India's gas infrastructure?
- What are the potential challenges in scaling up India's gas grid and connecting it to CGD networks, and how can they be addressed through innovative technologies and strategic investments?
- What are the key policy-driven incentives that can drive investment in the gas sector and help achieve a future-ready, sustainable energy system?

SPEAKERS

MODERATOR



Gurpreet Chugh
MD
ICF

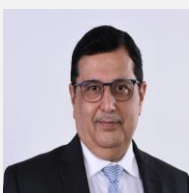
PANELISTS



A Ramana Kumar
Member
PNGRB



Abhilesh Gupta
MD
AG&P Pratham



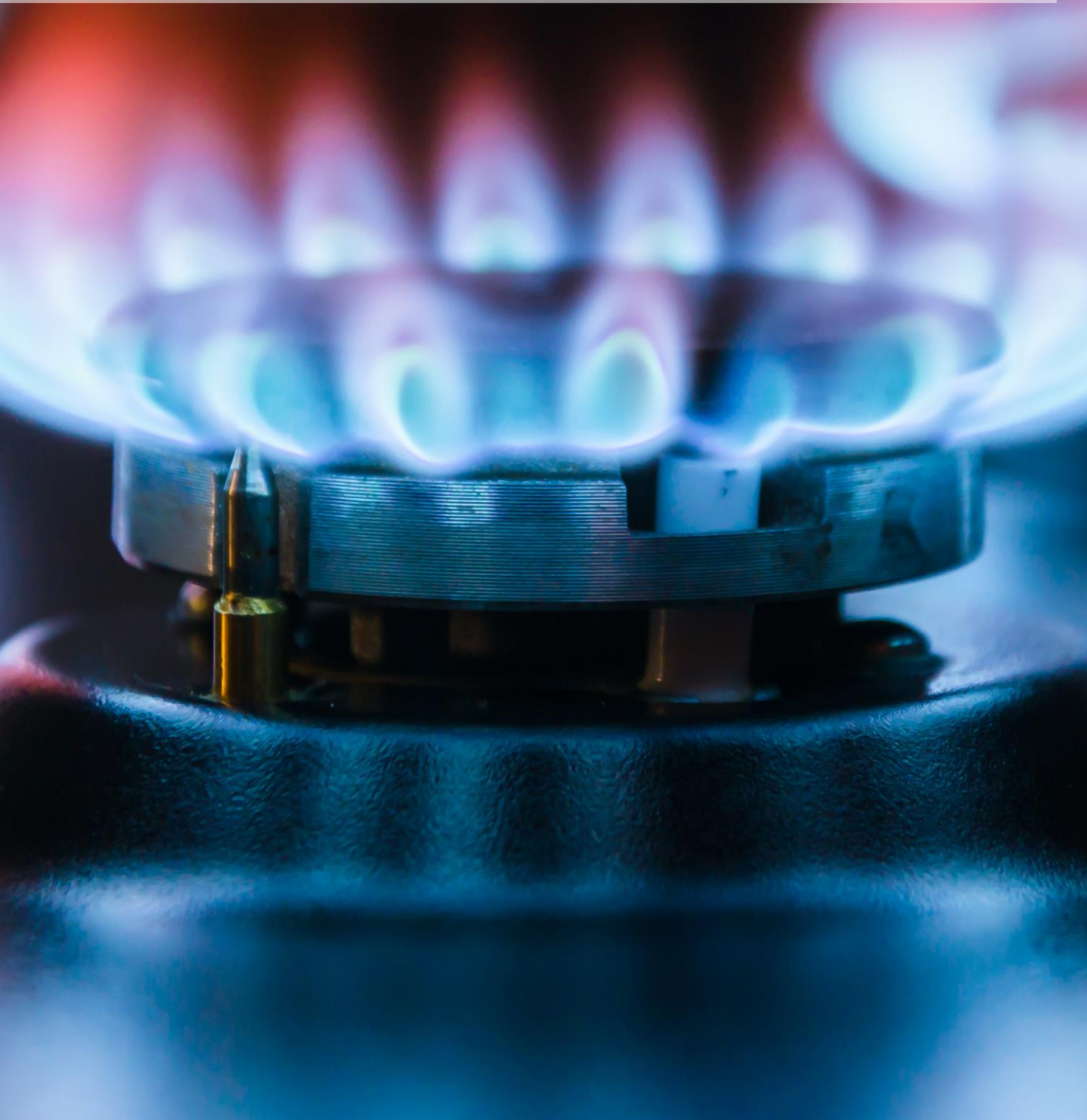
Akhil Mehrotra
MD
Pipeline
Infrastructure Ltd



Yogiraj Navathe
EVP - Operations
Gujarat Gas Ltd

Session 4

**Accelerating Domestic PNG Growth:
Framework for Overcoming Challenges &
Achieving MWP targets**



India's city gas distribution sector has witnessed significant growth, with an emphasis on expanding the reach of Domestic PNG. Currently, India has achieved ~1.44 crore PNG connections with Government's set Minimum Work Program (MWP) of 12.63 crores household domestic connections by 2032. The government's push for a gas-based economy, coupled with MWP commitments for City Gas Distribution entities, has set the stage for rapid PNG expansion. However, challenges such as infrastructure constraints, customer acquisition & conversions, investments, connectivity, and clearance/permission hurdles persist.

The MWP commitments ensure that CGD entities are held accountable for expanding their networks and reaching more households. However, the challenges mentioned are significant. Infrastructure constraints often involve the need for extensive pipeline networks, which require substantial investment and time to develop. Customer acquisition and conversions can be slow due to a lack of awareness or resistance to change from traditional fuels. Investments are crucial, but they need to be strategically planned to ensure maximum impact. Connectivity issues and clearance/permission hurdles often involve navigating complex regulatory environments and securing the necessary approvals from multiple authorities

This session aims to bring together key stakeholders from PNGRB, CGD entities, and subject matter experts to deliberate on overcoming hurdles and driving the next phase of domestic PNG growth in India. Further, it will focus on strategies to accelerate domestic PNG penetration by addressing key challenges and creating a sustainable framework for achieving MWP targets. The discussion will revolve around best practices, policy enablers, technological innovations, and collaborative models for CGD entities to drive PNG adoption across urban and semi-urban areas of India.

Key Questions for the session

- What are the critical infrastructure constraints hindering the expansion of Domestic PNG in India, and how can these challenges be addressed effectively?
- How can CGD entities balance the needs of urban and semi-urban areas in terms of expanding domestic PNG infrastructure and ensuring affordability?
- What innovative technologies and solutions can be implemented to enhance customer acquisition, conversions, and reduce operational bottlenecks?
- How can CGD entities tackle customer acquisition and conversion rates to meet the MWP targets for domestic PNG connections?
- How can regulatory frameworks and clearance processes be streamlined to expedite PNG network expansion and reduce permission-related delays?
- What role can technological innovations play in enhancing the efficiency and reach of PNG distribution, and what specific technologies are most promising?

SPEAKERS

MODERATOR



S C Gupta
*Director
Monitoring
PNGRB*

PANELISTS



K K Chatiwal
*MD
Indraprastha Gas
Limited*



**Goutom
Chakraborty**
*CEO
GAIL Gas*



**Kumar
Shanker**
*MD
MNGL*



**Venkatesh
Palimpati**
*CEO
Megha Gas*



**Utkarsh
Bhatt**
*ED
Torrent Gas*

Experience Sharing Session By Eminent Speaker



- **Shri B.C. Tripathi**, a mechanical engineer from NIT Allahabad, he started his career in ONGC and subsequently joined GAIL (India) Limited in 1984.
- He served as the youngest CMD of GAIL (India) Limited from 2009 to 2019. Under his leadership, GAIL attained 'Maharatna' status.
- Among several honors Mr. Tripathi is the recipient of Best LNG executive Global award at World Energy Summit & Best CEO in the PSU category.
- He has been instrumental in executing several prestigious GAIL projects, from the HVJ pipeline to the Dahej-Dabhol Pipeline. As the Project Manager for GAIL's Dahej-Vijaipur Pipeline project.
- Under Mr. Tripathi's leadership, GAIL transformed into a multi-asset multinational portfolio company. The company's physical assets tripled, turnover increased by 300%, and profit after tax (PAT) rose by 200%.
- Mr. Tripathi is recognized as one of India's foremost energy strategists and has been an active participant in global conferences and forums, including the World Economic Forum and Ceraweek.
- Mr. Tripathi has led the initiative to win the Silver Medal for Excellence in Project Management in the Mega Project Category from the International Project Management Association, Germany, and published a case study on this project in Petromin Pipeliner.
- After retiring, he joined Essar Oil UK as a board member and is widely recognized for his contributions to India's energy sector.

Session 5

Future Proofing India's Petroleum Product Pipeline infrastructure: A pathway to efficient development, logistics and access



India's petroleum product pipelines are the backbone of a seamless, efficient, and sustainable energy network. India has 23,370 Kms length of petroleum product pipeline infrastructure which has played a critical role in ensuring the efficient and cost-effective transportation of fuels across the country. With consumption is expected to grow multifold and the refinery capacity expansions are expected to grow from 257 MTPA to 310 MTPA considering the future petroleum product, petroleum product pipelines would play a vital role in shaping India's logistics.

A key transformational step is the declaration of pipelines as common carriers, ensuring equitable access for multiple stakeholders. This shift will reduce reliance on road transport, lower logistics costs, and enhance competition, benefiting both infrastructure owners and petroleum product distributors. To unlock the full potential of petroleum pipelines, public-private partnerships (PPPs), Infrastructure Investment Trusts (InvITs), and strategic hospitality arrangements must be leveraged to attract investments and boost utilization. A well-structured monetization strategy can help generate additional revenue for PSUs while ensuring long-term sustainability.

However, several challenges hinder its optimal utilization and future scalability. One of the key areas to focus is equitable access of pipelines by imbibing the idea of common carrier. This equitable access would present an opportunity for infrastructure owner and market participant to scale its utilization and market reach. Enabling common carrier status would enhance network efficiency, reduce reliance on road transport and promote competition.

This session will delve into these critical issues, offering insights into policy reforms, infrastructure planning, and collaborative frameworks to build a future-ready petroleum product pipeline network in India.

Key Questions for the session

- Role of petroleum product pipeline Infra development to meet the growing demand and ensure efficient transportation of fuels across the country?
- How common carrier petroleum product pipelines become panacea to enhance network efficiency and competition?
- What role can Public-Private Partnerships (PPPs) and Infrastructure Investment Trusts (InvITs) play in accelerating demand, attracting investments for pipeline infrastructure development?
- Role of well-structured monetization strategy for petroleum pipelines generate additional revenue for PSUs while ensuring long-term sustainability?
- Critical Role of policy reforms and regulatory frameworks are necessary to support the scalability and optimal utilization of petroleum product pipelines in India?
- Role of Common User Facilities (CUF) and JVs in developing industry-wide infrastructure for optimizing resource utilization

SPEAKERS

MODERATOR



Arvind Kumar
Principal
Consultant
PNGRB

PANELISTS



Rajiv Chohan
President - BD
Aegis



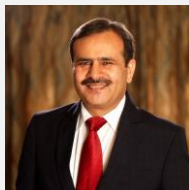
Ram Ramesh
ED
HPCL



L R Jain
CEO & MD
ISPRL



K K Jha
Former
Member
PNGRB



Harish Mehta
CEO
Reliance BP
Mobility
Limited

Session 6

Strategic Molecule Sourcing in CGD: Navigating Policy, Market Dynamics, and Infrastructure Solutions



The discussion will delve into policy interventions and pricing reforms that could bolster CGD players, exploring mechanisms for securing long-term domestic gas supplies and structuring LNG procurement through strategic partnerships. The inclusion of Compressed Biogas (CBG) and hydrogen blending as part of the sourcing strategy aligns with the government's push for a cleaner energy mix, offering innovative solutions for diversified procurement. The inclusion of CBG in the energy mix not only supports environmental sustainability but also provides economic benefits by creating rural employment and reducing waste. Hydrogen blending reduces carbon emissions and enhances energy security by diversifying the energy mix. These all initiatives further aligns with India's net-zero targets and commitment to sustainable development.

Addressing infrastructure challenges, such as regasification bottlenecks and pipeline connectivity gaps, will be crucial. Emphasis will be placed on capacity augmentation, open-access models, and coordinated pipeline expansions to ensure seamless last-mile connectivity, thereby enhancing the reliability and efficiency of gas distribution networks. Further, this approach would enhance utilization, reduces costs, and fosters a more competitive and integrated gas market.

This session aims to discuss the key challenges and opportunities in policy frameworks, market dynamics, and infrastructure development, offering valuable insights to navigate complexities in gas procurement. The goal is to equip CGD players with the knowledge and tools needed to make strategic, data-driven decisions, ultimately building a resilient and sustainable gas supply strategy that supports India's energy transition. By addressing these key areas, India can ensure a reliable and efficient natural gas distribution network, contributing to a cleaner and more sustainable energy future

Key Questions for the session

- How can CGD entities optimize their gas sourcing strategies to minimize costs while ensuring a reliable supply, particularly in the face of intensifying competition for gas molecules?
- How can CGD entities adapt to recent policy shifts, such as reductions in APM gas allocations, and what strategies can they employ to secure alternative gas sources?
- What are the most effective ways for CGD entities to diversify their gas sourcing methods, including spot market LNG, exchange-traded gas, and HPHT gas?
- How can CGD entities successfully integrate Compressed Biogas (CBG) and prepare for the future inclusion of hydrogen (H₂) in their grids, and what challenges might they face?
- What role does infrastructure play in achieving last-mile connectivity, and how can Small-Scale LNG (SSLNG) connectivity serve as an effective short-term solution?
- How can collaboration among stakeholders and knowledge sharing drive innovation in molecule sourcing strategies, supporting India's clean energy transition?

SPEAKERS

MODERATOR

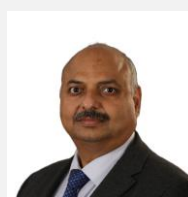


Payal Goel
Director
Deloitte

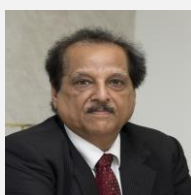
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