

A VIRTUAL CONFERENCE

# DIGITALISATION OF CGD NETWORKS

Progress, Best Practices, New Technologies and Future Strategies

August 3-4, 2021

Organisers:



Lead Sponsor so far:



# Digitalisation of CGD Networks

## Mission

- Digitalisation has become an important part of city gas distribution (CGD) business processes, ranging from network planning, engineering, and operations and maintenance, to complete management of network assets. Advanced solutions, including SCADA, GIS and the use of dashboards, analytical tools and innovative software, are enabling CGD companies to monitor their assets in real time, with greater precision. The outbreak of the Covid-19 pandemic, which called for remote working, has further strengthened the case for the uptake of such technologies and increased the digitalisation of the "office".
- An increasing number of CGD operators at the outset of their digital journeys are already seeing promising results. Gujarat Gas Limited (GGL), Indraprastha Gas Limited, Adani Gas, Mahanagar Gas Limited and GAIL Gas have been at the forefront in implementing innovative digital technologies that enhance the customer experience while making its operations more efficient. New entrants such as AG&P, Think Gas, Torrent Gas and Megha Engineering are deploying newer and advanced digital solutions, further creating opportunities for technology providers.
- New technologies such as the internet of things, big data and cloud computing are changing the way CGD companies do business. Another key area of interest for CGD utilities is deploying solutions that enable real-time, remote control or predictive maintenance to extend the life or operating efficiency of assets. Large volumes of data are also being generated that need to be stored, processed and analysed. In this context, nex-gen digital tools such as blockchain, artificial intelligence and machine learning for complete automation are also gaining traction.
- Going forward, digitalisation is expected to improve operations and increase flexibility throughout the CGD value chain. That said, with increasing digitalisation, data security is becoming a key concern. CGD operators, therefore, need to ensure that their risk management and response practices are aligned to a digitally controlled environment. At any rate, adequate workforce training and change management are essential for the smooth adoption of digital solutions.
- The mission of this virtual conference is to highlight the progress of CGD companies with regard to digital transformation, discuss the experience and challenges in technology adoption, and identify the new and emerging requirements. The conference will also showcase the best practices, and the most promising digital technologies and solutions.

## Target Audience

The conference is targeted at:

- City gas Operators	- Industrial consumers
- Technology providers	- Engineering and design firms
- Gas marketers/suppliers	- System Integrators
- Meter manufacturers	- Software Companies/IT solution providers
- Policymakers and regulators	(SCADA, GIS, ERP, etc.)
- Material technology providers	- Network Management Companies
- Consulting firms	- Cyber Security Solution Providers
- Natural gas producers	- Etc.

## AGENDA/STRUCTURE

### EMERGING REQUIREMENTS, NEW ADVANCEMENTS AND FUTURE ROADMAP

- ❖ What are the new and emerging trends in the deployment of digital technologies for the CGD sector?
- ❖ What are the technologies available for automation? What has been the experience of CGD utilities?
- ❖ What are the key challenges? What is the future outlook?

### CGD OPERATORS' PERSPECTIVE: CURRENT DEPLOYMENT, CHALLENGES AND FUTURE PLANS

- ❖ What has been the experience of CGD operators in the deployment of digital technologies?
- ❖ What are the new and emerging requirements in the new normal amid the Covid-19 pandemic?
- ❖ What are the key issues and challenges?
- ❖ What are their digital plans and priorities going forward?

### DIGITAL SOLUTIONS FOR PLANNING, DESIGN AND SAFETY

- ❖ What are the digital solutions for planning, design and safety of CGD networks?
- ❖ What has been the experience so far? What are the specific issues and concerns?
- ❖ What is the potential of digitalisation in improving the safety of CGD networks in a post-Covid world?

### FOCUS ON CNG STATIONS: APPLICATIONS, EXPERIENCE AND NEW TECHNOLOGIES

- ❖ What is the potential for digitalisation in CNG stations?
- ❖ What has been the experience so far?
- ❖ What are some of the new digital solutions and offerings for the CNG segment?
- ❖ What are the future plans and requirements?

### FOCUS ON PIPED NATURAL GAS NETWORK: APPLICATIONS, EXPERIENCE AND NEW TECHNOLOGIES

- ❖ What is the potential for digitalisation in the PNG segment?
- ❖ What has been the experience so far?
- ❖ What are some of the new digital solutions and offerings for the PNG segment?
- ❖ What are the future plans and requirements?

### TECHNOLOGIES FOR GIS AND FIBER NETWORK MAPPING

- ❖ What are the key applications of GIS in the CGD sector?
- ❖ What are the technology requirements?
- ❖ What has been the experience so far? What are the key issues and challenges?

### SCADA, REMOTE MONITORING AND CONTROL SYSTEMS

- ❖ What are the new and emerging trends in the deployment of SCADA, remote monitoring and control systems in CGD networks?
- ❖ What has been the uptake of such solutions by CGD operators so far? What are the issues and concerns?
- ❖ What are the future plans and post Covid requirements?

### IoT-BASED SOLUTIONS FOR SMART CGD NETWORKS

- ❖ What are the new and emerging requirements for IoT-based solutions?
- ❖ What has been the trend in the uptake of such solutions across the CNG and PNG segments?
- ❖ What are the potential strategies for the adoption of this technology?

### SMART METERING PRACTICES

- ❖ What are the current metering solutions used by CGD operators?
- ❖ What has been the experience so far in the adoption of these solutions?
- ❖ What are the key issues and challenges?
- ❖ What is the future outlook for deployment?

### ROLE OF CLOUD COMPUTING IN DIGITAL TRANSFORMATION

- ❖ What are the new and emerging requirements for cloud-based solutions?
- ❖ What has been the trend in the uptake of such solutions across the CNG and PNG segments?
- ❖ What are the potential strategies for the adoption of this technology?

### SMART SOLUTIONS FOR FIELD FORCE AND WORKFORCE MANAGEMENT

- ❖ What has been the field force management strategy of CGD operators during the pandemic?
- ❖ Which digital solutions and tools are critical for the optimisation of workforce operations?
- ❖ What are the post Covid requirements of operators?

### NEW TECHNOLOGIES - AR, VR, AI, ML AND BLOCKCHAIN

- ❖ How can technologies such as augmented reality (AR) and virtual reality (VR) help in digitalisation?
- ❖ What will be the drivers for the adoption of these technologies in a post Covid world?
- ❖ What will be the key challenges in adoption?

### SOLUTIONS FOR MANAGING CYBERSECURITY RISKS

- ❖ What have been some of the key trends in managing cybersecurity-related risks?
- ❖ What are the best practices and solutions?
- ❖ What has been the uptake of such solutions by CGD operators so far? What are the specific issues and concerns?

# Digitalisation of CGD Networks

## CGD Companies



Adani Gas Limited



Arush Gas Technology Services



Assam Gas Company Limited



Aavantika Gas Limited



Bhagyanagar Gas Limited



Bharat Petroleum Corporation Limited



Central U.P. Gas Limited



Charotar Gas Sahkari Mandali Ltd.



Central UP Gas Limited



GAIL (India) Limited

Gail Limited



Green Gas Limited



Gujarat State Petroleum Corporation



Gujarat Gas Limited



Haridwar Natural Gas Private Limited



Haryana City Gas Distribution Pvt. Ltd.



Hindustan Petroleum Corporation Limited



Indraprastha Gas Limited



Indian Oil - Adani Gas Pvt. Ltd.

Indian Oil - Adani Gas Pvt. Ltd.



Indian Oil Corporation Limited



Mahanagar Gas Limited

Mahanagar Gas Limited



Mahesh Gas Limited



Maharashtra Natural Gas Ltd.



Oil and Natural Gas Corporation



RAJASTHAN STATE GAS LIMITED

Rajasthan State Gas Limited



Sabarmati Gas Ltd.

Sabarmati Gas Ltd.



Sanwariya Gas Limited

Sanwariya Gas Limited



Tripura Natural Gas Company Limited

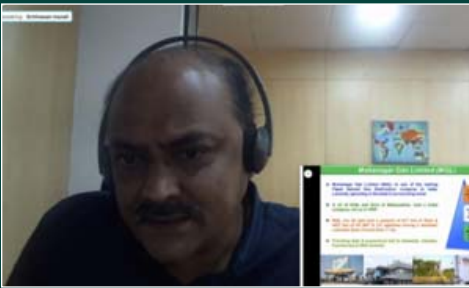
## Previous Participants

Some of the organisations who have participated in similar previous events include: Aavantika GAS; Accenture; ACE GAS Conversions; Adani Gas Ltd; Al-Aziz Group; Ambtronics Engineers; Apl Apoll Tubes; Arush Gas Technology Services LLP; Atlantic, Gulf & Pacific Company (AG&P); Baker Hughes; Beckhaul Technologies; Bharat Gas Resources; BHEL; Borouge (India); BPCL; Bureau Veritas (India); Captiva Energy Solutions Private; CathPro Consultants; Central Warehousing Corporation; Charotar GAS Sahakari Mandali; Chevron Phillips Chemicals; Clarke Energy; Comfit & Valves; Directorate General of Hydrocarbons; DNV-GL Software; Energy-Management Systems; EOS Positioning System/Locus View; Ernst & Young LLP; ESRI; Fluid Controls; Forno Gas; GAIL; Gainwell Commosales; Gardner Denver Engineered Products India Private; GAS Solutions; GE India Industrial; General Energy-Management Systems; Global Infrastructure Partners India LLP; Green Power Solutions; Greenfuel Energy Solutions; Gujarat Gas; Gujarat State Petroleum Corporation; Gujarat State Petronet; H energy; Hansa Management Services; Haridwar Natural Gas; Haryana City Gas; Heath Consultants; Hoerbiger; Honeywell; HP Oil & Gas; HPCL; ICRA; India Ratings & Research; Indian GAS Exchange; IndianOil - Adani Gas; Indraprastha Gas; Inel gas controls; Innovative Automation; Institute of Asset Integrity & Reliability Management; IOCL; IOTL; IRM Energy; Itron; Jain Irrigation Systems; Jefferies India; Josler Hydrocarbons; Jyotech Engg. & Mktg. Consultants; Kirloskar Pneumatic; L&T Technology Services; Lucky Investment Managers; Lucky Securities; Luxfer Uttam India; Mahanagar Gas; Mahindra & Mahindra; MECON; Mehta Brothers & Co.; Mitsui & Co.; Morgan Stanley; Neet-Vasant; Nirmal Industrial Controls; NTPC; NYK Line (India); OCS OIL-Tech Consultancy LLP; OIL & GAS Plant Engineers (I); ONGC; Pahwa MetalTech; Panam Engineers Ltd; Pandit Deendayal Petroleum University; Parker Hannifin India; Perma-Pipe India; Petroleum & Natural Gas Regulatory Board; Petronet LNG; Pipeline Infrastructure; Pipeline Management Services; Pollution Protection Systems; Pratap Technocrats; Pratapnagar Industrial Area; Punj Lloyd; PwC; Rajasthan State GAS; Ratnamani Metals & Tubes; Raychem RPG; Reliance Industries; Renaissance Group; Respo Safety Solutions; Rhino Services; Rockwin Flowmeters; Sabarmati Gas; Sandvik Asia; Sangir Plastic; SAP; SBI Capital Markets; Seal For Life India; Secure Meters; Sensit Technologies; SGS India; Sick India; SRG Engineering; State Bank of India; Super Technical; Surya Roshni; Swagelok; Swiftlifter; Systematix Shares and Stocks; Tata Consulting Engineers; Techsol Engineers; The Corporate Profiles; THINK Gas Distribution; Torrent GAS; Torrent Power; Tractebel Engineering; Tulip Compression; U3S Chemsolutions; Unique Hydrographic Systems; Unison Enviro; Varicon Pumps & Systems; VCS Quality Services; Virtuoso Consulting & Technology; Welspun Corp; Zapp Materials Engineering; Zhejiang Valogin Technology Co; etc.

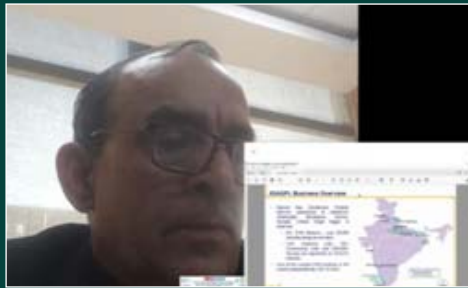
# Snapshots of our previous Virtual Conferences



*CGD Operator's Viewpoint with Ramana Kumar, MD, SABARMATI GAS LIMITED; Suresh P Manglani , Chief Executive Officer, Adani Gas; Hardip Singh Rai, CEO, THINK Gas; M.V. Ravi Someswarudu, CEO, Gas Authority Of India Limited (GAIL (India) Limited); Mohit Ahuja, Customer Success Manager, GE; and Karthik Sagar, Growth Leader, Research and Development, MagikMinds at our conference on City Gas Distribution in India. The panel discussed the current status of their CGD networks*



*Murali Srinivasan, Senior VP, Operations and Maintenance, Mahanagar Gas Limited, Mumbai at our conference on City Gas Distribution.*



*Rajiv Sikka, Chief Executive Officer, Indian Oil Adani Gas Private Limited at our conference on City Gas Distribution.*



*Ashu Shinghal, Chief General Manager, GAIL (India) Limited in a session on Pipeline Infrastructure at our conference on City Gas Distribution*



*Rajesh Sharma, Global Marketing Director, Oil and Gas Digital Solutions, Oil, Gas and Petrochemicals Segment, Schneider Electric at our conference on SCADA and Automation for Oil and Gas. He discussed digital pipelines, lowering cost & improving efficiency.*



*Pratik Deshpande, Solution Advisor- Customer Experience, SAP India at our conference on City Gas Distribution in India.*



*Karthik Panchangam, Growth Leader, Research and Development, MagikMinds at our conference on City Gas Distribution in India.*



*Chris Ackland, Solution Architect, GE at our conference on City Gas Distribution in India. He discussed key challenges with enterprise with GIS for CGD companies.*



*Manjeet Singh, Senior Vice President, Indraprastha Gas Limited at our conference on City Gas Distribution in India.*

# Virtual Conference on DIGITALISATION OF CGD NETWORKS

Progress, Best Practices, New Technologies and Future Strategies

August 3-4, 2021

## Registration Fee

	INR	GST@18%	Total INR	Total USD
1 Login	9,000	1,620	10,620	150
2 - 3 Logins	15,000	2,700	17,700	250
4 - 5 Logins	21,000	3,780	24,780	350
6 - 9 Logins	27,000	4,860	31,860	450
10 - 20 Logins	33,000	5,940	38,940	550

- GST @18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment.

There is a 50 per cent discount applicable only for the CGD operators.

### Payment Policy:

- Full payment must be received prior to the conference.
- Payments for "early bird" registrations should come in before the last date of discount. Discount offers cannot be combined with any other offer.
- Conference fees cannot be substituted for any other product or service being extended by India Infrastructure Publishing Pvt. Ltd.

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Sponsorship opportunities are available

## Organisers

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure sectors. The company publishes **Indian Infrastructure**, **Smart Utilities**, **Power Line** and **Renewable Watch**. It also publishes the **City Gas Distribution Market in India report**, **Gas in India report**, **Oil & Gas News** (a weekly newsletter) and the **Oil & Gas Directory and Yearbook**. The group also operates [www.cgdindia.co](http://www.cgdindia.co) to provide decision makers with information, analysis and insight on the sector in India that are of interest and relevance to CGD network operators, technology providers, investors, regulators, consultants and other concerned organisations.

For delegate registrations and sponsorship opportunities, contact:

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