



VIRTUAL CONFERENCE

6th Edition of

IT & OT IN OIL & GAS

Experience, Emerging Technologies and Outlook

May 25-26, 2022

Organiser:



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IT AND OT IN OIL AND GAS

Mission

- The oil and gas sector is undergoing rapid digital transformation. Operators across all segments of the value chain are increasingly embracing IT and OT solutions for increased productivity, safer operations and cost savings.
- Advanced analytics offers significant revenue potential across upstream and downstream operations. With real-time interpretation of changing markets and environment conditions, oil and gas companies are reaping the benefits of greater margins and end-to-end cost reductions.
- In the exploration and production (E&P) space, there is a growing uptake of tailor-made data analytics and management solutions to meet the desired requirements. Meanwhile, smart metering, real-time asset monitoring and customer relationship management solutions are gaining traction among distribution utilities.
- Oil and gas companies are also increasingly adopting digital solutions to gain complete visibility of assets and monitor business KPIs on a real-time basis. With this, operators are overhauling their maintenance strategies and transitioning to preventive and prescriptive maintenance schedules to minimise the cost of maintenance and anomaly detection.
- The city gas distribution infrastructure is rapidly expanding to new geographical areas and utilities are adopting digital technologies in a big way. SCADA, GIS and the use of dashboards, smart metering, analytical tools and innovative software are enabling CGD companies to monitor their assets in real time.
- An emerging trend in the segment is the growing uptake of digital solutions to reduce energy consumption and emissions in upstream and downstream operations. Oil and gas companies are deploying IT and OT solutions to optimise and decarbonise operations and move towards net zero emissions. Apart from this, the industry is increasingly adopting new-age tools such as blockchain, artificial intelligence and machine learning for digital transformation of their operations.
- That said, with the growing deployment of IT and OT solutions and the interconnectedness of assets, the operations of oil and gas companies have become more vulnerable to cyberattacks, and the industry faces greater threats of sabotage of crucial infrastructure and data breaches, among other things. Another challenge facing the sector is the lack of integration and interoperability among technologies and applications, with the majority of technologies in the industry operating in silos. Going forward, to realise the full benefits of digital transformation, an integrated approach and the convergence of OT and IT systems are paramount.
- **The mission of this conference is to assess the current deployment of IT and OT solutions by oil and gas companies, deliberate on new and emerging requirements, and discuss the experience and challenges in technology adoption. The conference will also showcase the best practices, and emerging technologies and solutions.**

Target Audience

The event is expected to draw participation from executives, managers and decision-makers from:

- ❖ Upstream oil and gas companies
- ❖ Solution providers for data analytics
- ❖ Pipeline operators
- ❖ Flow meter manufacturers
- ❖ System integrators
- ❖ Oil refineries
- ❖ IT solution providers (SCADA, GIS, ERP, etc.)
- ❖ Technology providers
- ❖ City gas distributors
- ❖ Leak detection solution providers
- ❖ Other equipment manufacturers
- ❖ LNG and storage terminals
- ❖ Pumps, valves and compressor providers
- ❖ Engineering and design firms
- ❖ Regulatory agencies, etc.

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- ❖ What have been the key IT and OT-related trends in the oil and gas sector?
- ❖ What are the new and emerging utility requirements?
- ❖ What are the issues and challenges?

INDUSTRY PERSPECTIVE

- ❖ What has been the experience of oil and gas companies in the adoption of IT and OT solutions?
- ❖ What are the new and emerging requirements?
- ❖ What are the key focus areas? What are the future plans?
- ❖ What are the IT-OT related issues and concerns?

DIGITALISATION OF HYDROCARBON MANAGEMENT

- ❖ What are the digitalisation needs and requirements of E&P companies?
- ❖ What are the key technologies and solutions deployed and what has been the implementation experience?
- ❖ What are the specific issues and concerns, and mitigation strategies?
- ❖ What are the key advancements and innovations in the segment?

RETAIL FORECOURT AUTOMATION SOLUTIONS

- ❖ What are the key technologies and solutions available for retail outlet automation?
- ❖ How has been the uptake of such solutions so far?
- ❖ What are the new advancements and innovations in this segment?

FOCUS ON REFINERIES

- ❖ What are the digitalisation needs and requirements of refineries?
- ❖ What are the key technologies and solutions deployed and what has been the implementation experience?
- ❖ What are the specific issues and concerns, and mitigation strategies?
- ❖ What are the key advancements and innovations in the segment?

FOCUS ON THE CGD SEGMENT

- ❖ What is the role of IT and automation systems in the CGD segment?
- ❖ What has been the implementation experience and the learnings?
- ❖ What are the implementation issues and challenges? What is the way forward?

SPOTLIGHT ON CUSTOMER RELATIONSHIP MANAGEMENT

- ❖ What are some of the customer relationship management initiatives that have been taken by gas utilities?
- ❖ What are the best practices and enabling technologies?
- ❖ What are the key issues and challenges?

ASSET MANAGEMENT AND REMOTE MONITORING

- ❖ What are the new and emerging asset management requirements?
- ❖ What are some of the advanced technologies and solutions in this regard?
- ❖ What has been the experience so far? What are the key issues and challenges?

SCADA AND AUTOMATION

- ❖ What are the solutions and technologies available for the automation of processes and operations? What has been the experience of oil and gas companies?
- ❖ What are the new & emerging trends in the deployment of SCADA systems?
- ❖ What are the future growth opportunities?

PIPELINE SAFETY MANAGEMENT SYSTEM

- ❖ What are the key requirements for ensuring pipeline integrity and safety?
- ❖ What are the various technologies and solutions available in this space?
- ❖ What are the specific issues and challenges?

NEW AND EMERGING TECHNOLOGIES – CLOUD, AI, ML, ANALYTICS, IoT

- ❖ What are the use cases of new technologies for oil and gas companies?
- ❖ What has been the experience so far in the deployment of these technologies?
- ❖ What are the required strategies and what is the road map for technology adoption?

ROLE OF GIS

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

NET ZERO EMISSION STRATEGIES

- ❖ What are the key initiatives/measures being taken by oil and gas companies to achieve net zero emissions?
- ❖ What are the new and emerging technologies and digital solutions in this space?
- ❖ What is the future outlook for this segment?

SMART METERING: POTENTIAL AND PRACTICES

- ❖ What are the current metering solutions used by oil and gas companies?
- ❖ 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?

PROMISE OF BLOCKCHAIN

- ❖ What are the potential areas for blockchain applications by Indian utilities?
- ❖ What are the international use cases?
- ❖ What are the requirements for implementing blockchain? What are the key issues?

DATA PRIVACY AND CYBERSECURITY

- ❖ What are the issues and concerns associated with data security and protection?
- ❖ What are the new and emerging solutions for managing cybersecurity risks?
- ❖ What has been the utility experience so far and what are the lessons learnt?

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Previous Participants

Some of the organisations that have attended our previous oil and gas conferences include: ABB India, Accenture, Adani Gas, Adani Ports, Agora, APC Consulting, Baseline Project Management, Baker Hughes-GE, Bentley, Bharat Oman Refineries, Bharat Oman Refinery, Black & Veatch, BPCL, Cairn India, Central UP Gas, CGI, Cyient, Elcome Technologies, Engineers India, Eplan, Esri India Technologies, Fluentgrid, FMC Technologies, GAIL, GAILTEL, GE, GE Infrastructure Energy, GE Oil & Gas, Green Gas, GS E&C Delhi, Gujarat Gas, Gujarat Narmada Valley Fertilizers & Chemicals Limited, Gulf & Pacific Company, H Energy, High Commission of Canada, Hitachi, Hitachi Hirel Power, Honeywell, iEnergy Innovation, Indraprastha Gas, Ingenx Technology, IOCL, KPIT Technologies, KOTAK, L&T Hydrocarbon, Lloyd's Register Asia, Magikminds Software, Mahanagar Gas, MAN Industries, MECON, Microsoft Corporation, Ministry Of Communication & IT, Natural Gas Society, Natural GAS Society, Naraya Energy, NTPC, Oil India, ONGC, Petronet LNG, Pipeline Infrastructure Limited, PPAC-Petroleum Planning & Analysis Cell, Prabha Energy, PricewaterhouseCoopers, Rajasthan State Gas, Reliance Gas Pipelines, Reliance Gas Transportation Infrastructure, Reliance Industries, Rockwell Automation, Rolta India, ROTODYNE Engineering Services, SAP, SAS Institute (India) PVT. Ltd., Schlumberger, SHELL, Simon India, Sterlite Power, Tata Communications, Technip FMC, THINK Gas Distribution, Tieto, Trimble Solutions India, Tulsa Gas Technologies, UPES, Vedanta Limited, Cairn OIL & GAS, Visualr, Zeppelin Systems, etc.

Previous Edition Speakers

Speaker list from previous edition (alphabetically sorted, surname wise)

- **SUNIL AGARWAL**
Head, Instrumentation and Control, TCE
- **SANJEEV AGRAWAL**
Chief General Manager, Retail Automation, BPCL
- **RAVIKANT ARYA**
Chief General Manager, Indraprastha Gas
- **PRATAP AYAREKAR**
Deputy General Manager, Mahanagar Gas
- **KAILASH KUMAR CHAUDHARY**
Senior Manager, IT, Cairn Oil and Gas
- **MOUSAMI DEKA**
General Manager, IT, Oil India Limited
- **SUNNY DESAI**
Senior Consultant, SAS
- **TARIQ FAROOQUI**
GVP, Head- Global GTM, Digital Industry Product Management, Process Automation, ABB
- **UJJAL GHATAK**
Global CIO, Atlantic, Gulf & Pacific Company
- **ARUN GOEL**
Principal Architect, Digital Smart Manufacturing, Cairn Oil and Gas
- **RAMESH KUMAR**
Deputy General Manager, CSPA, GAILTEL
- **TITIKSHA MUKHERJEE**
Director & Sales Head – India, Oil & Gas Solutions, TietoEVRY
- **MANGESH NAWARANGE**
Digital Lead, Energy Industries, Process Automation, ABB
- **OLAV X NAERLAND**
Director Midstream, Oil & Gas Solutions, TietoEVRY
- **BUDDHAVARAPU PAPARAJU**
Head, Operational Technology, ONGC
- **MANU PURI**
Associate Director, Accenture
- **DHARAM RAJ**
Director, Cybersec Consulting Services and Former Executive Director, CIO, ONGC
- **NAVEEN SIKKA**
Principal Industry Consultant, O&G, SAS
- **DAVINDER PAUL SINGH**
Additional Manager, Indraprastha Gas
- **H.P. SINGH**
Executive Director and Chief Information Officer, ONGC
- **RONAN O’SULLIVAN**
VP, Digital Lead – Energy Industries Division, IMEA (India, Middle East and Africa), ABB

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Registration Fee

No. of delegates	Base price	Discounted price	With GST	USD	Discounted USD Price
1	12,000	8,400	9,912	200	140
2 to 3	20,000	14,000	16,520	325	230
4 to 5	28,000	19,600	23,128	450	315
6 to 9	36,000	25,200	29,736	575	405
10 to 20	44,000	30,800	36,344	700	500

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

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- 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.

Organisers

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure sectors. The company publishes **Indian Infrastructure** magazine. It organises over 50 conferences annually, focused on the infrastructure sectors, including **Gas in India**, **City Gas Distribution**, **Gas-based Power Generation**, and **IT and OT in Oil and Gas conferences**. It also publishes a series of reports on the energy sector, including **City Gas Distribution Market in India** and **Small-scale LNG Market**. It also publishes **Oil & Gas News** (a weekly newsletter) and the **Oil & Gas Directory and Yearbook**.

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