



VIRTUAL CONFERENCE

5th Edition of

IT & OT IN OIL & GAS

Experience, Best Practices, Challenges and New Requirements

June 8-9, 2021

Organiser:



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IT AND OT IN OIL AND GAS

Mission

- The oil and gas sector has taken rapid strides in deploying information technology (IT) and operational technology (OT) systems. New and innovative technologies and digital solutions are being deployed across all segments of the oil and gas value chain.
- In the exploration and production (E&P) segment, in particular, there is a significant focus on data management with advanced solutions tailored to each player's needs. Pipeline network management, too, is getting more digitalised. In the distribution segment, smart metering, online payments and real-time asset management solutions have witnessed increased deployment.
- The internet of things, big data and cloud are other major technology trends that are set to change the oil and gas sector landscape. The industry is also moving towards greater automation and digitalisation. Large volumes of data are being generated that need to be stored, processed and analysed.
- Another key area of interest for oil and gas companies is deploying solutions that enable real-time, remote control and predictive maintenance to extend the life or operating efficiency of assets. The use of smart metering and customer relationship management solutions is another trend that is seeing growing interest among distribution utilities. New digital tools such as blockchain, artificial intelligence and machine learning are being explored as the oil and gas industry looks to transition to the digital paradigm.
- That said, the growing deployment of IT and OT solutions has created several challenges and generated new needs. The majority of the technologies and applications deployed are operating in silos. The absence of data integration and functional interoperability continue to remain a major roadblock for IT implementation in the sector. Clearly, the convergence of OT and IT systems is an area that needs attention and holds immense potential for the oil and gas industry.
- **The mission of this virtual conference is to highlight the progress of oil and gas companies with regard to digital transformation, discuss the experience and challenges in technology adoption, and identify the new and emerging IT and OT requirements of the oil and gas industry. The conference will also showcase the best practices, and the most promising technologies and solutions.**

Target Audience

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

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

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, Baker Hughes-GE, Bentley, Bharat Oman Refineries, Bharat Oman Refinery, Black & Veatch, BPCL, Cairn India, Central UP Gas, 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, High Commission of Canada, Hitachi, Hitachi Hirel Power, Honeywell, iEnergy Innovation, Indraprastha Gas, Ingenx Technology, IOCL, KPIT Technologies, 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, NTPC, Oil India, ONGC, Petronet LNG, Pipeline Infrastructure Limited, PPAC-Petroleum Planning & Analysis Cell, 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, 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, etc.

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- ❖ What have been the key IT/OT related trends in the oil and gas sector?
- ❖ What are the most promising and relevant technologies? What are the new developments and advancements in this space?
- ❖ What are the key issues and concerns? What is the outlook?

INDUSTRY PERSPECTIVE: EXPERIENCE, CHALLENGE AND FUTURE ROADMAP

- ❖ What are the emerging IT and OT needs and requirements of oil and gas companies?
- ❖ What are the key technologies and solutions deployed and the implementation experience?
- ❖ What are the key challenges in selecting or implementing these technologies?
- ❖ What are the expectations from industry vendors?

DIGITALISATION OF HYDROCARBON MANAGEMENT

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

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 & challenges?

NEW AND EMERGING TECHNOLOGIES - CLOUD, AI, ML, ANALYTICS, IOT

- ❖ What are the use cases of new technologies for oil and gas companies?
- ❖ What are the potential benefits? How can these address Covid-related challenges?
- ❖ What are the strategies required for the convergence of new technologies with legacy IT/OT systems?

PROMISE OF BLOCKCHAIN

- ❖ What is the potential of blockchain technologies for oil and gas companies?
- ❖ What has been the global experience?
- ❖ What are the requirements for implementing blockchain? What are the key issues?

ROLE OF GIS

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

SOLUTIONS FOR RETAIL FORECOURT AUTOMATION

- ❖ 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?

DATA MANAGEMENT AND CYBERSECURITY

- ❖ What are the new and emerging requirements for data management in the oil and gas sector?
- ❖ What are the key technologies and solutions available and their deployment?
- ❖ What are the cybersecurity threats and risks for oil and gas companies? What are the best practices?

GLOBAL EXPERIENCE: KEY LEARNINGS AND BEST PRACTICES

- ❖ What are IT developments, trends and experiences in the oil and gas sector at a global scale?
- ❖ What are some of the noteworthy initiatives?
- ❖ What can be learnt from the global experience?

CONVERGENCE OF IT-OT SOLUTIONS

- ❖ What are the drivers for IT-OT convergence in the oil and gas industry?
- ❖ What are the new initiatives being taken to support this integration?
- ❖ What are the key issues and challenges? What are the future requirements?

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 has been the experience so far?
- ❖ What are the specific issues and challenges?

FOCUS ON CUSTOMER RELATIONSHIP MANAGEMENT

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

TECHNOLOGIES FOR DECARBONISATION/ROADMAP TOWARDS DECARBONISATION/TECHNOLOGY NEEDS FOR NET ZERO EMISSIONS

- ❖ What are the key initiatives/measures being taken by oil and gas companies for achieving 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 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?

FOCUS ON REFINERIES: SUPPLY CHAIN OPTIMISATION AND SAFETY SOLUTIONS

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

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Registration Fee

	INR	GST@18%	Total INR	Total USD
1 Login	9,000	1,620	10,620	163
2 - 3 Logins	15,000	2,700	17,100	263
4 - 5 Logins	21,000	3,780	24,780	381
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.

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Organisers

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure sectors. The company publishes the **Indian Infrastructure** magazine. It organises over **50 conferences annually**, focused on the infrastructure sectors including conferences on **Gas in India, City Gas Distribution, Gas Based Power Generation** and **IT and OT in Oil and Gas**. 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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