



3rd Annual Conference on

IT & OT IN OIL & GAS

December 3-4, 2018, Le Meridien, New Delhi

Organisers:



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IT & OT IN OIL & GAS

Mission

- The oil and gas (O&G) industry, in the past few years, has taken rapid strides in deploying information technology (IT). IT is increasingly being identified as a strategic tool to achieve operational efficiency and reduce financial losses. At the same time, there has been an increase in the adoption of new operational technology (OT) solutions.
- O&G companies across the upstream, midstream and downstream segments have witnessed an increased application of IT and OT solutions. Applications such as enterprise resource planning (ERP), terminal automation system, smart metering, customer relationship management (CRM), etc. are being deployed to automate business processes. Also, advanced solutions such as supervisory control and data acquisition (SCADA), geographical information system (GIS), satellite surveillance and remote sensors are being deployed for monitoring gas transmission pipelines.
- The industry is also actively seeking greater customisation in vendor offerings for meeting their unique requirements. Tailored IT-OT solutions are being designed and deployed. The existing communication systems are also being upgraded to meet the advanced requirements (related to bandwidth and compatibility) of the new IT-OT deployments.
- Increasing importance is being given to data analytics and business intelligence tools to utilise the rich database in the systems. Further, the increasing quantum of data flow is also driving the need for better storage and retrieval systems. Industrial internet of things (IIoT) and cloud are increasingly being used to connect people, assets and processes.
- At the same time, the growing deployment of IT and OT solutions is creating its own challenges as well as generating new requirements. The majority of the technologies and applications currently deployed are operating in silos. Absence of data integration and functional interoperability continue to remain a major roadblock for IT implementation in the sector. Thus, the convergence of OT and IT systems holds great potential for the O&G industry.
- The O&G industry is now beginning to move towards automation and digitalisation with increased vigour. Both public and private companies in the sector are well-equipped to take advantage of the new advances in IT as well as the convergence of IT and OT. However, it is imperative to have a comprehensive technology integration plan in place to reap maximum benefits of the new IT-OT deployments. Also, greater attention has to be paid to improve the in-house expertise, end-user empowerment, development of enterprise-wide strategy and data sharing across multiple platforms.
- **The mission of the conference is to highlight the most promising information and operational technologies, examine their potential and relevance to the Indian O&G industry, and discuss the issues and challenges in their deployment and convergence. The conference will also showcase noteworthy applications and best practices across upstream, midstream and downstream segments. It will also provide an excellent forum for all stakeholders to share their experiences and views.**

Target Audience

The conference is targeted at operators and IT managers in:

- ❖ E&P firms
- ❖ Pipeline operators (oil and gas)
- ❖ Oil refineries
- ❖ City gas distributors
- ❖ LNG terminals, etc.

The conference will also be useful for:

- ❖ Providers of operational technologies (SCADA, C&I, GIS)
- ❖ Providers of information technologies (ERP, CRM, cloud, etc.)
- ❖ System integrators
- ❖ Industry consultants
- ❖ IT hardware manufacturers
- ❖ Communication/Connectivity solution providers
- ❖ Data centre solution providers
- ❖ Solution providers for data analytics
- ❖ Big data, technology providers of workforce management
- ❖ Etc.

Other major organisations included:

APC Consulting, ABB India Limited, Adani Gas Ltd, Baker Hughes-GE, Bharat Oman Refinery, Bharat Petroleum Corporation, Cairn India, Central Up Gas Limited, Cyient, Elcome Technologies, Engineer India Limited, ESRI, GAIL, GAIL TEL, GE Infrastructure Energy, GE Oil & Gas, GS E&C/ Delhi, Gujarat Gas, Gujarat Narmada Valley Fertilizers & Chemicals Limited, Hitachi Hirel Power, iEnergy Innovation Pvt.Ltd, Indian Oil Corporation, Indraprastha Gas, Ingenx Technology, KPIT Technologies Limited, L&T hydrocarbon, Magikminds Softwar, Mahanagar Gas, MAN Industries, MECON Limited, Microsoft Corporation, Ministry Of Communication & IT, Natural Gas Society, NTPC, Oil India Limited, ONGC, Petronet LNG, PPAC, PwC, Rajasthan State Gas Limited, Reliance Industries, Rockwell Automation, Rolta India Limited, SAP, SAS, Simon India Limited, Sterlite, Tata Communications, Tulsa Gas Technologies, Visual, etc.

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- ❖ What are the key trends relating to the use of IT/OT in the Indian oil and gas sector?
- ❖ What are the most promising and relevant technologies?
- ❖ What are the key issues? What is the outlook for the sector?

EMERGING NEEDS AND REQUIREMENTS: CUSTOMER PERSPECTIVE

- ❖ What are the emerging needs and requirements for IT and OT in the O&G sector?
- ❖ What are some of the key technologies and solutions deployed by the industry?
- ❖ What are the key challenges and lessons learnt?

INDUSTRY PERSPECTIVE: NEW TECHNOLOGY, PRODUCTS AND INNOVATION

- ❖ How is the industry gearing up to cater to the requirements of the oil and gas sector?
- ❖ What has been the experience so far? What are the key operational challenges?
- ❖ What are the new options and enhancements offered by the vendors?

CONVERGENCE OF IT AND OT

- ❖ What are the drivers for the convergence of OT & IT systems in the oil and gas industry?
- ❖ What are the key enablers supporting this integration?
- ❖ What are the key issues and challenges?

FOCUS ON DIGITALISATION

- ❖ What are the key areas that can be prioritised for digital transformation?
- ❖ What are the technology options available for implementing digitalisation?
- ❖ What has been the experience so far in the adoption of these solutions? What are the key issues and challenges?

ASSET MANAGEMENT AND REMOTE MONITORING

- ❖ What are the technology/analytics solutions available for asset management and monitoring?
- ❖ What has been the experience so far? What is the impact of these solutions on asset reliability, failures and maintenance?
- ❖ What are the cost savings that can be achieved? What are the key issues being faced?

REQUIREMENTS OF REFINERIES AND OTHER PROCESS-INTENSIVE SEGMENTS

- ❖ What are the new IT and OT requirements of refineries and other process-intensive segments?
- ❖ What has been the experience so far? What are the new trends and advancements?
- ❖ What are the possibilities created by IT/OT convergence?

FIELD INSTRUMENTATION AND CONTROL SYSTEMS

- ❖ What are the various products and technology solutions for field instrumentation and control? What role can DCS play in the overall automation of a production and processing facility (PLC and PAC)?
- ❖ How has been the uptake of such solutions so far?
- ❖ What are the new trends and advancements? What are the global best practices?

EMERGING TRENDS IN ERP

- ❖ What are the emerging ERP requirements of the oil and gas industry?
- ❖ What are the new trends and advancements?
- ❖ What has been the experience so far? What are the key issues and learnings?

FOCUS ON OILFIELD AUTOMATION AND MONITORING

- ❖ What are the different types of technologies and equipment available for oilfield automation and monitoring?
- ❖ How has been the uptake of such solutions so far?
- ❖ What are the recent trends and advancements? What are the global best practices?

BIG DATA ANALYTICS

- ❖ What are the key applications of big data analytics in the oil and gas industry?
- ❖ What specific benefits can the industry draw through big data analytics?
- ❖ What will be the key drivers for its adoption?

INDUSTRIAL IoT

- ❖ What is the promise of IIoT for the oil and gas industry?
- ❖ What are the key enabling technologies?
- ❖ What has been the experience globally?
- ❖ What are the key issues and risks?

CLOUD COMPUTING

- ❖ What are the potential benefits of cloud computing for the oil and gas industry?
- ❖ What are the different IT models? What has been the experience so far?
- ❖ What are the key issues and challenges?

CYBERSECURITY REQUIREMENTS

- ❖ What are the key cybersecurity risks for the oil and gas industry?
- ❖ What are the specific solutions on offer?
- ❖ What is the expected level of preparedness in addressing the cybersecurity issue? What lessons have been learnt?

SCADA EXPERIENCE AND CHALLENGES

- ❖ What are the key benefits of deploying SCADA in oil and gas companies?
- ❖ What are the infrastructural requirements for implementing the system?
- ❖ Is the industry fully exploiting and using the SCADA data? What are the key issues and challenges?

IT-OT FOR FLOW AND GAS MEASUREMENT

- ❖ What are the IT and OT solutions that can be used for flow and gas measurement?
- ❖ What has been the experience so far in the adoption of these solutions?
- ❖ What are the key issues and challenges?

FOCUS ON SMART METERING SOLUTIONS

- ❖ What are the key drivers for the uptake of smart metering solutions?
- ❖ What has been the experience so far in the adoption of these solutions?
- ❖ What are the new trends and advancements?
- ❖ What are the key issues and concerns?

PIPELINE INTEGRITY AND SAFETY MANAGEMENT

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

TERMINAL AUTOMATION SYSTEM

- ❖ What are the various technology solutions for terminal automation?
- ❖ What has been the experience so far in the adoption of these solutions?
- ❖ What are the key issues and challenges?

CUSTOMER RELATIONSHIP MANAGEMENT

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

FOCUS ON COMMUNICATION REQUIREMENTS

- ❖ What are the various communication technologies for IT and OT application?
- ❖ What has been the experience so far in the adoption of these solutions?

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?

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Registration Form

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Three delegates	53,400	9,612	63,012	969
Four delegates	68,850	12,393	81,243	1,250

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