2nd Annual Conference on
FLOW & MEASUREMENT
IN OIL & GAS
July 22-23, 2019
Shangri-La's The Eros, New Delhi

4th Annual Conference on
IT & OT IN OIL & GAS
July 24-25, 2019
Le Meridien, New Delhi
MISSION

The mission of this conference is to focus on:
- Flow and measurement applications in the oil and gas sector
- Current state of technology deployment
- Notable trends and developments relating to the use of flow and measurement solutions in the oil and gas sector
- Emerging needs and requirements for accurate flow and measurement techniques and instruments in the oil and gas sector
- Global advances and best practices
- New technologies, advancements and innovations for improving domestic oil and gas operations
- Key issues and concerns and mitigation strategies

TARGET AUDIENCE

The event is expected to draw participation from executives, managers and decision-makers from:
- Upstream oil and gas
- Solution providers for data analytics
- Flow meter manufacturers
- Oil refineries
- Technology providers
- Leak detection solution providers
- LNG and storage terminals
- Engineering and design firms
- Independent shale operators
- Pipeline operators
- System integrators
- IT solution providers (SCADA, GIS, ERP, etc.)
- City gas distributors
- Other equipment manufacturers
- Pumps, valves and compressors
- Regulatory agencies, etc.

Previous Speakers Include:
(in alphabetical order by last name)
- Shakeel Ahmed, Deputy General Manager, Instrumental, ONGC
- Jileedar, Managing Director, Green Gas
- Goutom Chakraborty, Chief General Manager, Operations and Maintenance, GAIL India
- Sunil Das, Deputy General Manager, PNC, Indian Oil Corporation
- Lalit Mohan, Country Manager- India Sales, Flexim Instruments Asia
- Kandasamy Mukilan, Deputy General Manager, Kochi Refinery, Bharat Petroleum Corporation
- Sanjay Kumar Rastogi, Vice President, Technical, Petronet LNG
- Tapas Sarkar, General Manager and Head, Instrumentation, ONGC
- Gurpreet Singh, Regional Sales Leader, GE Oil & Gas India
- Maneesh Bahadur Singh, Technical Advisor, Kongsberg Digital

Previous Participants

AGENDA/STRUCTURE

TRENDS, DEVELOPMENTS AND OUTLOOK
- What are the key trends relating to the use of flow and measurement solutions in the Indian 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 challenges? What is the future outlook?

CUSTOMER PERSPECTIVE: CURRENT DEPLOYMENT AND NEW REQUIREMENTS AND OPPORTUNITIES
- What is the current state of deployment of flow and measurement solutions in the oil and gas sector?
- What are the emerging needs and requirements?
- What are the upcoming opportunities? What are the key challenges and lessons learnt?

FLOW METERS AND SENSOR SYSTEMS
- What are the key technologies and solutions used in flow measurement and control?
- What has been the experience so far? What are the key benefits?
- What are the new technologies and innovations in the field? What are the global best practices?

FLOW DATA ANALYTICS: EMERGING REQUIREMENTS & NEW INNOVATIONS
- What is the role of data and information management in flow and gas measurement?
- What are the key technologies and solutions available for the verification and calibration of flow data?
- What are the steps being taken to minimise errors and data tampering?

PRODUCTION FACILITIES: KEY SOLUTIONS, NEW TECHNOLOGIES AND INNOVATIONS
- What are the various flow and measurement technologies and solutions for production facilities (oil and gas fields)?
- What has been the experience so far? What are the best practices?
- What are the new trends and advancements?

TERMINALS AND STORAGE FACILITIES: KEY SOLUTIONS, NEW TECHNOLOGIES AND INNOVATIONS
- What are the various flow and measurement technologies and solutions for terminal and storage facilities?
- What has been the experience so far? What are the best practices?
- What are the new trends and advancements?

FOCUS ON GAS MEASUREMENT INSTRUMENTS AND TECHNIQUES
- What gas measurement instruments and techniques are currently in use in India?
- What are the new requirements? What are the new trends and advancements?
- What are some of the best practices in minimising losses and errors?

PIPELINE AND TRANSPORTATION: KEY SOLUTIONS, NEW TECHNOLOGIES AND INNOVATIONS
- What are the various flow and measurement solutions for gas transportation?
- What has been the experience so far? What are the best practices?
- What are the new trends and advancements?

AUTOMATION, FIELD INSTRUMENTATION AND MONITORING
- What role can control and instrumentation play in flow and measurement applications in the oil and gas sector?
- What are the advanced automation, control and monitoring solutions available in this regard?
- What has been the uptake of such solutions so far? What are the specific advantages of these solutions?

CITY GAS DISTRIBUTION: KEY SOLUTIONS, NEW TECHNOLOGIES AND INNOVATIONS
- What are the various flow and measurement technologies and solutions for city gas distribution?
- What has been the experience so far? What are the best practices?
- What are the new trends and advancements?

FOCUS ON LEAKAGE DETECTION
- What are the different types of technologies and equipment available for leakage detection?
- What has been the experience so far?
- What are the new trends and advancements? What are the global best practices?

GAS PROCESSING AND COMPRESSION: NEW TECHNOLOGIES AND INNOVATIONS
- What are the different types of technologies and equipment available for gas processing and compression? What has been the experience so far?
- What are the recent trends and advancements? What are the global best practices?
- What are the key issues and challenges?

PRESSURE AND FLOW CONTROL: KEY INSTRUMENTS, NEW TECHNOLOGIES AND INNOVATIONS
- What are the instruments/equipment used for pressure and flow control?
- What has been the experience so far? What are the recent innovations in India?
- What are the key issues and challenges? What are the global best practices?

DIGITAL TRANSFORMATION: ROLE OF ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN TECHNOLOGY
- What is the potential of deploying AI and blockchain technology for flow and measurement applications in the oil and gas sector?
- What are the various areas and applications where these solutions can be leveraged?
- What are the unique benefits? What are the key issues and concerns?
Previous speakers include:

- Dr Ashutosh Karnatak, Director, Projects, GAIL
- M.K. Chaudhary, ED - CIO, ONGC
- Alok Khanna, Executive Director - Information Systems, Indian Oil Corporation
- G. Ramkumar, Executive Director, I/C Automation, Indian Oil Corporation
- Raman Narayan, Head, SCADA, ONGC
- Srikrishna Sambasivam, Head, HSSEQ & Sustainability, Cairn Oil & Gas, Vedanta
- Jilledar, Managing Director, Green Gas
- Deepak Agarwal, Executive Director, Information Systems, Indian Oil Corporation
- K.S.R. Prasad, Senior VP, Operations, Gujarat Gas
- Ramesh Narayanan, Assistant Vice President- RRM, Mahanagar Gas
- Raman Srivastava, Chief General Manager, Instrumentation & Automation, Indraprastha Gas
- N.C. Mangla, Chief General Manager, ERP & IT, Indraprastha Gas

Mission

The mission of this conference is to focus on:

- Current state of technology deployment
- Key applications of IT and OT solutions in the oil and gas sector
- Notable trends and developments relating to the use of IT and OT in the oil and gas sector
- Emerging needs and requirements for the convergence of IT and OT systems
- Global advances and best practices
- New technologies, advancements and innovations for improving domestic oil and gas operations
- Key issues and concerns and mitigation strategies

Target Audience

The conference is targeted at operators and IT managers in:

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

The conference will also be useful for:

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

Previous Participants


To register: Call +91-11-4034606, 4034615, 9560433667, email: priyanka.magoo@india infrastructure.com, or visit us at www.indiainfrastructure.com
# AGENDA/STRUCTURE

## TRENDS, DEVELOPMENTS 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 new developments and advancements in this space?
- What are the key issues? What is the future outlook?

## CUSTOMER PERSPECTIVE: CURRENT DEPLOYMENT AND EMERGING REQUIREMENTS AND OPPORTUNITIES
- What is the current deployment of IT and OT solutions in the oil and gas sector?
- What are the emerging needs and requirements of the oil and gas sector?
- What are the upcoming opportunities? What are the key challenges and lessons learnt?

## CONVERGENCE OF IT AND OT: CURRENT STATE, NEW INITIATIVES AND FUTURE REQUIREMENTS
- What are the drivers for IT-OT convergence in the oil and gas industry?
- What are the new initiatives being undertaken to support this integration?
- What are the key issues and challenges? What are the future requirements?

## DIGITALISATION OF ASSET MANAGEMENT
- What are the technology solutions available for asset management and monitoring?
- What are the key areas that can be prioritised for digital transformation?
- What has been the experience so far in the adoption of these solutions? What is the impact of these solutions on asset reliability, failure and maintenance?
- What are the key issues and challenges?

## REFINERIES AND OTHER PROCESS-INTENSIVE INDUSTRIES: NEW REQUIREMENTS AND SOLUTIONS
- What are the IT-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?

## AUTOMATION OF OILFIELD OPERATIONS
- 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?

## IOT, BIG DATA AND CLOUD: NEW REQUIREMENTS AND SOLUTIONS
- What are the key applications of IoT, cloud computing and big data analytics in the oil and gas industry?
- What has been the trend in the uptake of such solutions by oil and gas companies?
- What are the issues and concerns? What are the upcoming opportunities?

## NEW FOCUS AREAS I: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
- What is the potential of deploying AI and machine learning in the oil and gas sector?
- What are the various areas and applications where these solutions can be leveraged?
- What are the unique benefits? What are the key issues and concerns?

## NEW FOCUS AREAS II: APPLICATION OF BLOCKCHAIN TECHNOLOGY
- What is the potential of deploying blockchain technology in the oil and gas sector?
- What are the various areas and applications where these solutions can be leveraged?
- What are the unique benefits? What are the key issues and concerns?

## SMART METERING SOLUTIONS AND UPCOMING OPPORTUNITIES
- 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 (LoRa, AMR, etc.)?

## NEXT STEPS FOR 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?

## COMMUNICATION, INFORMATION AND CYBERSECURITY: NEW REQUIREMENTS AND SOLUTIONS
- What are the new and emerging challenges related to ICT in the oil and gas sector?
- What are the key cybersecurity risks for oil and gas companies? What are the strategies and solutions that can help these companies secure themselves?
- What has been the progress with regard to the development of interoperable standards and protocols?

## SCADA AND GIS SOLUTIONS: APPLICATIONS, INTEGRATION AND EMERGING REQUIREMENTS
- What are the key applications of GIS and SCADA in the oil and gas sector?
- What are the key advantages of integrating SCADA and GIS solutions? What are the technology and other requirements?
- What are the key issues and challenges?

## PIPELINE SAFETY AND INTEGRITY 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?
I would like to register for the “FLOW & MEASUREMENT IN OIL & GAS” conference (July 22-23, 2019, Shangri-La’s The Eros, New Delhi)

I would like to register for the “IT & OT IN OIL & GAS” conference (July 24-25, 2019, Le Meridien, New Delhi)

I would like to register for both the conferences

I would like to register for the conference. I am enclosing Rs___________________ vide cheque/demand draft no._________________ drawn on ______________________ dated ______________ Company GST No. _______________ in favour of India Infrastructure Publishing Pvt. Ltd. payable at New Delhi.

Please send wire transfer payments to:
Beneficiary India Infrastructure Publishing Private Limited
Bank Name The Hongkong and Shanghai Banking Corporation Ltd
Bank Address R-47, Greater Kailash-1, New Delhi-110048, India

REGISTRATION FORM

Please send wire transfer payments to:
Beneficiary India Infrastructure Publishing Private Limited
Bank Name The Hongkong and Shanghai Banking Corporation Ltd
Bank Address R-47, Greater Kailash-1, New Delhi-110048, India

REGISTRATION FEE

### ANY ONE CONFERENCE

<table>
<thead>
<tr>
<th>Delegates</th>
<th>INR</th>
<th>GST @ 18%</th>
<th>Total INR</th>
<th>Total USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>One delegate</td>
<td>20,000</td>
<td>3,600</td>
<td>23,600</td>
<td>393</td>
</tr>
<tr>
<td>Two delegates</td>
<td>35,000</td>
<td>6,300</td>
<td>41,300</td>
<td>688</td>
</tr>
<tr>
<td>Three delegates</td>
<td>50,000</td>
<td>9,000</td>
<td>59,000</td>
<td>983</td>
</tr>
</tbody>
</table>

### BOTH CONFERENCES

<table>
<thead>
<tr>
<th>Delegates</th>
<th>INR</th>
<th>GST @ 18%</th>
<th>Total INR</th>
<th>Total USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>One delegate</td>
<td>32,000</td>
<td>5,760</td>
<td>37,760</td>
<td>630</td>
</tr>
<tr>
<td>Two delegates</td>
<td>56,000</td>
<td>10,080</td>
<td>66,080</td>
<td>1,101</td>
</tr>
<tr>
<td>Three delegates</td>
<td>80,000</td>
<td>14,400</td>
<td>94,400</td>
<td>1,573</td>
</tr>
</tbody>
</table>

- GST @ 18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment.
- To register online, please log on to http://indiainfrastructure.com/conf.html

Payment Policy:
- Full payment must be received prior to the conference.
- Conference fee includes lunch, tea/coffee and conference material.
- Conference fees cannot be substituted for any other product or service being extended by India Infrastructure Publishing Pvt. Ltd.

Contact: Priyanka Magoo, Conference Cell
India Infrastructure Publishing Pvt. Ltd.,
B-17, Qutub Institutional Area, New Delhi 110016.
Tel: +91-11-41034606, 41034615, 9560433667
E-mail: priyanka.magoo@indiainfrastructure.com