

30 per cent "Early Bird" discount ends on March 15, 2021

Register Now



A VIRTUAL CONFERENCE

SCADA & AUTOMATION FOR POWER UTILITIES

Changing Utility requirements, New
Solutions and Technology Roadmap

April 6, 2021

A VIRTUAL CONFERENCE

SCADA & AUTOMATION FOR OIL AND GAS

Experience, Challenges and
Future Potential

April 7, 2021

Organisers:

**Indian
Infrastructure**

POWERLINE

Lead sponsor:

**Schneider
Electric**

SCADA & AUTOMATION FOR POWER UTILITIES

Mission

- Recent months have shown the importance for utilities to invest in smart grid technologies to enable them to deliver consistent and reliable power.
- One of the key smart grid solutions that power utilities have been widely using for several years is supervisory control and data acquisition (SCADA). These are designed to provide information in real time and take corrective actions when needed to prevent significant system failures and enable monitoring and control of critical functions in power generation, transmission and distribution systems. SCADA deployments have been facilitated under government programmes such as the R-APDRP scheme, which directed utilities to implement SCADA for identified towns, for which financial support was extended by the central government.
- For T&D utilities, SCADA is used for unmanning and automating grid substations and monitoring the entire network from a central location. SCADA can also be integrated with the billing system so that if there is any outage in the distribution system, SCADA can communicate the same to the billing system much before a customer would.
- However, given the new and emerging requirements of a more intelligent, efficient and reliable grid, SCADA systems are now being evolved and upgraded by utilities to make them more current and move beyond basic applications. Next-generation SCADA systems are being deployed by integrating them with digital tools and solutions such as IoT, cloud and data analytics to allow for better efficiency, forecasting and real-time operations.
- Another requirement of a modern grid is distribution automation (DA) which brings together a network of digital sensors, controllers and switches with advanced communication and software to provide increased visibility across the system and for proactively controlling and monitoring the equipment, load, remote metering, etc.
- Preparing for distribution automation would require implementing an efficient SCADA. Distribution automation systems integrated with SCADA can provide real time information to utilities for control centre operators to help utilities in outage management, mapping information, customer billing, customer service call data to workforce and repair crew availability.
- However, as advanced SCADA systems become highly interconnected with other networks and cloud-based services, they are exposed to greater cyber and physical vulnerabilities, which would need to be managed by utilities.
- **The mission of this one-day conference is to showcase the promising trends and developments in SCADA technologies, discuss the new and emerging utility requirements, as well as understand the benefits, capabilities and features of new and advanced SCADA enhancements.**

Target Audience

- The event is expected to draw participation from executives, managers and decision makers from:
 - Discoms
 - Transcos
 - Power plant operators
 - Technology providers
 - IT integration companies
 - Communication system integrators
 - Government agencies
 - Cybersecurity solution providers
 - Research and development organisations
 - Consultants
 - Other power sector professionals
 - Etc.

Organisers

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure sectors through magazines, newsletters, reports and conferences. The company publishes **Power Line** (India's premier power magazine), **Indian Infrastructure** and **Renewable Watch**. It also publishes a series of research reports on the power sector including **Power Distribution in India**, **Power Transmission in India**, **Coal-based Power Generation**, etc. It also publishes **Power News** (a weekly newsletter) and a **Power Line Directory and Yearbook**.

AGENDA/STRUCTURE

UTILITY PERSPECTIVE

- ❖ What has been the experience in deploying SCADA so far?
- ❖ What are the new and emerging SCADA-related requirements of utilities?
- ❖ What are the challenges in integrating SCADA infrastructure with other utility systems?
- ❖ What is their SCADA roadmap for the future? What are their expectations from vendors?

TECHNOLOGY SHOWCASE

- ❖ What have been the recent advances in SCADA systems?
- ❖ What are the next-generation SCADA technologies most relevant for utilities?
- ❖ What are the use cases?

IPDS EXPERIENCE

- ❖ What is the status of SCADA projects under IPDS (and erstwhile)?
- ❖ What has been the implementation experience? What have been the benefits?
- ❖ What are the targets and plans for future? What are the issues and concerns?

DISTRIBUTION AUTOMATION

- ❖ What are the SCADA solutions for distribution automation?
- ❖ What has been the experience so far? What are the issues and concerns?
- ❖ What are some of the new and promising technology solutions?

SCADA FOR TRANSMISSION AND GRID AUTOMATION

- ❖ What are the benefits of leveraging SCADA solutions for grid and network operators?
- ❖ What are the use cases for next-generation SCADA technologies for transcos?
- ❖ What is the outlook?

SCADA APPLICATIONS FOR POWER PLANTS

- ❖ What are the use cases for SCADA technologies for power plant operators?
- ❖ What has been the industry experience?
- ❖ What have been the new technologies and solutions in this regard?

ADMS

- ❖ What are the technology requirements of ADMS?
- ❖ What are the key considerations for SCADA for utilities when deploying ADMS?
- ❖ What are the promising technologies and solutions in this regard?

IoT AND CLOUD

- ❖ What are the key features of IoT and cloud-based SCADA solutions?
- ❖ What are the advantages over traditional SCADA? What are the use cases?
- ❖ What are the issues and concerns in deploying these technologies?

MANAGING CYBERSECURITY RISKS

- ❖ What are the cybersecurity risks and concerns that SCADA systems are exposed to?
- ❖ What are the solutions for mitigating such risks & protecting SCADA systems?
- ❖ What are the best practices to build a robust cybersecurity network?

Previous Participants

The previous participants in our related conferences include Accenture, Adani MPSEZ Utilities, Adani Power, Adani Transmission, Aditya Birla Insulators, Ajmer Vidyut Vitran Nigam, Alfanar Energy, AMAT, AP Transco, Apar Industries, APEPDCL, APSPDCL, Arfin India, Arunachal Pradesh State Electricity Regulatory Commission, Assam Power Distribution Company, Attec Worldwide, AutoGrid India, AVEVA, Bahwan CyberTek, Bekeart, Bentley Systems, BHEL, Bihar Electricity Regulatory Commission, Bothe Windfarm Development, Brugg Cables, BSES Rajdhani, BSES Yamuna, BSPDCL, Burns and Mc Donnell, C&S Electric, Cabcon, Capgemini, Cargill, CEA, CESC (RP-Sanjiv Goenka Group), CLP, CTC Global, Cyient, Datagen Power, Delhi Transco & Delhi Power, Deloitte, DSP Merrill Lynch, DWNL, Eaton Power, Edelweiss Asset Reconstruction, EESL, Efficienergi Consulting, Electrotherm, Entegra GmbH, ESRI, Essel Infra Projects, Essel Utilities, ETAP Automation, Exide Industries, FEDCO, Feedback Infra, FLIR, Fluentgrid, Fortum India, GE, GE Grid Solutions, GESCO, GETCO, GIZ, Godrej & Boyce, Guangzhou Goaland Energy, Gujarat Electricity Regulatory Commission, Gujarat Energy Transmission Corporation, H.P. State Electricity Board, Harshini Tele Systems, Haryana Electricity Regulatory Commission, HCL, Himachal Pradesh Electricity Regulatory Commission, Hitachi, Holoflex, Honeywell, HSA Legal, Hughes, Hyosung, IBM, ICRA, IDFC, IEX, IFC, IL&FS Energy Development Company, India Power Corporation, India Smart Grid Task Force, Indian Railways, Infosys, International Copper Association India, Jaigad Power Transco, JERC, JSK Industries, JSW Power Trading Company, JUSCO, JWNL, Kalpataru Power Transmission, KEC International, KEI, KPMG, Lara Global, Larsen&Toubro, M.N. Dastur, M.P. Paschim Kshetra Vidyut Vitaran, M.P. Power Transmission, Madhya Kshetra Vitaran, Magnatech Smart Grid Solutions, Mahindra Susten, MAP Power LLP, Ministry of Power, Motwane, MOXA, MPPKWCL Indore, MPPTCL, MSEDCL, National High Speed Rail Corporation, NEDO, NEEPCO, NELCO, NESCO, North Bihar Distribution, Northern Power Distribution Company of Telangana, Norwegian Embassy, NPTI, NTPC, NTPC Vidyut Vyapar Nigam, Odisha Electricity Regulatory Commission, OPTCL, Oracle, Orange Renewables, OSI, Parbati Koldam Transmission, Paschimanchal Vidyut Vitran Nigam, Phoenix Contact, Phoenix IT, POSOCO, Power Grid, Powerlinks Transmission, PricewaterhouseCoopers, PSPDCL, PTC Financial Services, Punj Lloyd, Purulia & Kharagpur Transmission Company, Rajasthan Electricity Regulatory Commission, Rajasthan Rajya VidyutPrasaran Nigam, Ramco, Ramelex, Raychem RPG, REC Power Distribution Company, Reliance Infraprojects, Reliance Power Transmission, REMC, ReNew Power, Research Triangle Institute, Resonant Electronics, Rockwell Automation, RVPNL, Sai Computers, Sai Electricals, SAIL, SAP, SAS, SBI Caps, Schneider Electric, Secure Meters, Septett, Sicame, Siemens, Smart Power India, South Bihar Power Distribution, State Grid Corporation of China, Sterling and Wilson, Sterlite Power Grid Ventures, Suzlon, TAG Corporation, Tagbin, Tata Communications, Tata Consultancy Services, Tata Power Delhi Distribution, Telangana State Southern Power Distribution, THDC, Torrent Power, Transmission Corporation of Andhra Pradesh, Transmission Corporation of Telangana, Transrail Lighting, Trimble, Tristar Technocrates India, Utkarsh Tubes & Pipes, Uttar Gujarat Vji Company, UP Electricity Regulatory Commission, Uttarakhand Power Corporation, Virtuous Energy, Voyants, WBSSEDCL, West Bengal State Electricity Transmission, Wipro, etc.

SCADA & AUTOMATION FOR OIL AND GAS

Mission

- The adoption of automation technologies in the oil and gas sector picked up pace around a decade ago. At present, a number of large-scale oil and gas companies are deploying new digital and automation technologies with a focus on integrating their operations.
- Many digital technologies such as the supervisory control and data acquisition (SCADA) system are gaining popularity. SCADA has been deployed by major oil and gas companies across the upstream, midstream and downstream segments with the objective of ensuring safety, service reliability, and cost-effectiveness in the pipeline network. The outbreak of Covid-19, which called for working remotely, has further strengthened the case for the adoption of automation and SCADA solutions.
- For the exploration and production segment in particular, significant attention is being given to data management with advanced automation solutions tailored to each player's needs. Pipeline network management too is getting digitalised with the use of advanced technologies. Besides, automation and SCADA solutions are finding an increasing number of takers in the CGD sector, looking to monitor their assets with greater precision and in real time. Wireless SCADA systems, too, are gaining prominence in the oil and gas industry as they offer better control and speedy transfer of both live and historical data.
- As the world enters the next phase of automation, there is an increased focus on artificial intelligence (AI), machine learning (ML) and robotic process automation, which will eventually reduce the processes operating in an organisation. Cybersecurity management solutions are also being deployed to protect the large amount of data generated by the system.
- Going forward, as the oil and gas industry is moving towards automation and digitalisation, technologies such as AI, ML and SCADA can prove to be game changers. Both public and private companies in the sector are leveraging new automation technologies. There is also a need for convergence of various IT and OT solutions in order to maximise their benefits. In addition, the cybersecurity concerns need to be addressed. If these challenges are resolved, the benefits associated with automation and SCADA systems can be fully realised.
- **The mission of this one-day virtual conference is to examine the current deployment status of automation and SCADA solutions, study their potential and relevance in the oil and gas sector, and discuss the key issues and challenges in their deployment and convergence with IT solutions. The conference will also showcase noteworthy applications, innovative case studies and best practices across all segments - upstream, midstream and downstream. It will provide a forum for all stakeholders - oil and gas companies, technology providers and system integrators - to share their experience and exchange views.**

Previous Participants

Some of the organisations that have participated in our previous oil and gas conferences are: AarviEncon, Ambetronics, aTanova, Arad Ventures, Arya Offshore, Assam Gas, Baker Hughes-GE, Baumer, BORL, BPCL, Borouge, Cairn, Capital Power, CARE Ratings, CUGL, CESC, Chambal Fertilisers and Chemicals, Charotar Gas, Chicago Pneumatic, CINDA Engineering, Clarke Energy, Deepak Fertilisers & Petrochemicals, Directorate General of Hydrocarbons, DNVGL, Dura-Line, E&Y, ElectroMech, Engineers India, ESRI India, Essel Gas, Essel Infraprojects, Flexim, FLIR Systems, Fluid Controls, Flowtube, GAIL, GE, Goodrich Gaskets, Green Gas, Gujarat Gas, GSECL, GSFC, GSPC, Haryana City Gas, Heath Consultants, H-Energy, HPCL, Hitachi, HNGCL, Honeywell, HP Valves & Fittings, ICF, IDEX, IFFCO, IEX, IOCL, Indian Oil-Adani Gas, Indraprastha GAS, Ingenx Technology, Itron, Jain Irrigation Systems, Jindal Pipes, JSW Steel, Kabsons GAS Equipment, Kimplas Piping Systems, Kirloskar Pneumatic, Kongsberg Digital, Koso Pumps, Leister Technologies, Linde India, Lloyd's Register, Mahanagar Gas, Maharashtra Seamless, MAN Industries, Marubeni, Mecon, Mehta Brothers, Micro Precision Products (Wika Group), Mitsubishi Heavy Industries, Mitsui & Co, Nagman, National Fertilizers, Natural Gas Society, NTPC, Numaligarh Refinery, ONGC, Oil India, Parker Hannifin, PNRB, Petronas Energy, Petronas LNG, PWC, Rajasthan State Gas, Raychem, Reliance Infrastructure, Renesas Electronics, Rockwell Automation, Rockwin Flowmeter, Sabarmati Gas, Saigal Sea Trade, Sandvik Asia, Sanwariya Gas, SAP, Savair Energy, Scania, Seal For Life, Sealexcel, SENER, SENSIT Technologies, SGS India, Sick India, Siemens, Siti Energy, Swagelok, TANGEDCO, Tata Communications, Technip FMC, Techsol Engineers, Texas Instruments, Thermax, Toyota Tsusho, Tractebel Engineering, Tractors India, Tubacex Group, Tulip Compression, Tulsa GAS Technologies, U3S Chem solutions, Ultratech, Uniphos Envirotronic, Varicon Pumps, etc.

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 **Gas in India**, **City Gas Distribution**, and **IT and OT in Oil and Gas**. It also publishes reports on **City Gas Distribution Market in India** and the **Small-scale LNG Market**, a weekly newsletter (**Oil & Gas News**) and the **Oil & Gas Directory and Yearbook**.

To register: Call +91-9999401099, email: monish.grover@indiainfrastructure.com or visit us at www.indiainfrastructure.com

AGENDA/STRUCTURE

CURRENT SCENARIO, NEW ADVANCEMENTS AND FUTURE ROADMAP

- ❖ What are the new and emerging trends in the deployment of SCADA systems?
- ❖ 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 key system upgrades, advancements and innovations?
- ❖ What are the future growth opportunities?

FOCUS SEGMENTS: APPLICATIONS, EXPERIENCE, PLANS AND POTENTIAL

- ❖ EXPLORATION AND PRODUCTION
 - ❖ REFINERIES AND PETROCHEMICAL COMPLEXES
 - ❖ LNG TERMINALS
 - ❖ OIL AND GAS PIPELINES
 - ❖ CGD INFRASTRUCTURE
-
- What are the specific application areas for the deployment of SCADA systems? What has been the experience so far?
 - What has been the progress with regard to the automation of processes and operations? What are the new opportunities for automation?
 - What are the implementation roadblocks?
 - What are the future plans and opportunities in this area?

AUTOMATION THROUGH NEXT-GEN TECHNOLOGIES: DEPLOYMENT OF ROBOTS, ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

- ❖ What are the specific applications of next-generation technologies such as robotics, AI and ML for the automation of business processes and operations?
- ❖ What are the new enhancements offered by vendors?
- ❖ What are the next steps for the complete automation of operations?

ROLE OF CLOUD-BASED SOLUTIONS

- ❖ What are the new and emerging requirements for cloud-based solutions?
- ❖ What has been the trend in the uptake of such solutions across the upstream, midstream and downstream segments?
- ❖ What are the required strategies & roadmap for the adoption of this technology?

IoT-BASED REMOTE MONITORING SOLUTIONS

- ❖ What are the new and emerging requirements for IoT-based remote monitoring solutions?
- ❖ What has been the trend in the uptake of such solutions by oil and gas companies so far?
- ❖ What are the required strategies & roadmap for the adoption of this technology?

CYBERSECURITY OF SCADA SYSTEMS

- ❖ What are the cybersecurity practices being adopted by oil and gas companies for protecting SCADA networks?
- ❖ What are the new and advanced technologies available for privacy and data loss prevention?
- ❖ What are the challenges and gaps?

WIRELESS DATA COMMUNICATIONS FOR SCADA

- ❖ What are the different types of communication configurations in SCADA?
- ❖ What has been the experience so far?
- ❖ What are the potential technology upgrades?

Target Audience

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

What differentiates our conferences?

- The **agenda** is developed by our researchers, who track the sector round the year. It is thus **relevant** and **topical**. It is not driven by a particular organisation and does not have a particular slant.
- The **speakers** are **professionals** and **experts** involved in the sector, not a mix of ambassadors, ministers, celebrities and business owners.
- The conferences do not just comprise panels and speeches; they provide a good mix of **expert presentations** and **case histories**, and of course **panel discussions**.
- We have **representation** from **across the country**, as is the case at our physical conferences too.
- Each **stakeholder group** – **policymakers, developers, financiers, consultants** and **relevant NGOs** – is represented at our conferences.
- The moderators merely ask the questions. The **stars** are the **speakers** themselves.
- The **sessions begin and end on time**.
- There is adequate time for a **Q&A session** with **each speaker**. These are not “hit and run” speeches.
- The **delegates** are **professionals** who are vested in the sector, and are not just assembled through social media.
- The **participants** in each conference receive a **concise report outlining the key facts, trends and issues** in the sector.
- A **recap** of the conference is also made available to reinforce the key takeaways.

Delegate benefits (Virtual Conference)

- Direct interaction with senior speakers (Q&A facility)
- Easy connectivity to geographically dispersed delegates (click of a mouse)
- Concise report offered as a backgrounder
- Cost effective (lower ticket price as compared to a physical conference)
- Offers flexibility and convenience
- Access to conference recording
- Recap of conference sessions
- Contributes to sustainability and lower carbon footprint

Benefits of sponsorship (Virtual Conference)

- E-meet influencers and decision-makers
- Reach out to and engage with new or active prospects
- Generate high quality sales leads
- Increase brand recognition
- Target a captive and engaged audience
- Drive website traffic through social media promotions
- Position your company as the thought-leader in your industry

REGISTRATION FORM

- I would like to register for the “SCADA & AUTOMATION FOR POWER UTILITIES” conference (April 6, 2021)
- I would like to register for the “SCADA & AUTOMATION FOR OIL AND GAS” conference (April 7, 2021)
- I would like to register for **both the conferences**

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

Bank Account No. 094179587002
Swift Code HSBCINBB
IFSC Code HSBC0110006
GSTIN 07AAACI5880R1ZV

Sponsorship opportunities
are available

Registration Fee

Both conferences

	INR	GST@18%	Total INR	Total USD
1 Login	12,000	2,160	14,160	203
2 - 3 Logins	18,000	3,240	21,240	304
4 - 5 Logins	24,000	4,320	28,320	405
6 - 9 Logins	30,000	5,400	35,400	506
10 - 20 Logins	36000	6,480	42,480	607

Any one conference

	INR	GST@18%	Total INR	Total USD
1 Login	7,000	1,260	8,260	118
2 - 3 Logins	12,000	2,160	14,160	203
4 - 5 Logins	17,000	3,060	20,060	287
6 - 9 Logins	22,000	3,960	25,960	371
10 - 20 Logins	27,000	4,860	31,860	456

- 30 per cent “Early Bird” discount ends on March 15, 2021.
- GST @18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment.

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.

Contact: Monish Grover, Conference Cell, India Infrastructure Publishing Pvt. Ltd.
B-17, Qutab Institutional Area, New Delhi 110016.
Tel: +91-9999401099 | Email: monish.grover@indiainfrastructure.com