19th Edition

IT & OT IN POWER

A VIRTUAL CONFERENCE

New Priorities and Requirements: Pre- and Post-Covid

August 19-20, 2020

Organisers:

POWERLINE Smart Utilities

Co-sponsor:

HITACHI ABB

Supported by:

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IT & OT IN POWER

Mission

- Covid has thrust unprecedented challenges upon utilities. They are experiencing shifts in energy demand loads and supply chain disruptions, managing a remote workforce with limited access to critical IT-OT infrastructure, and operating with a reduced field workforce, besides being exposed to greater cybersecurity risks.
- While efforts to move towards IT-OT convergence have been underway, the current environment is forcing utilities to accelerate this shift. Utilities are prioritising their IT-OT initiatives and realising the benefits of fast-tracking their digital transformation plans to be able to work remotely and effectively.
- Digitalisation is becoming an increasingly important part of distribution utility operations. Key central government programmes and initiatives such as the Integrated Power Development Scheme (IPDS) and the National Smart Grid Mission (NSGM) have been supporting the utilities' efforts towards IT-OT convergence. The IPDS is playing a key role in helping distribution utilities adopt a host of automation and digital solutions such as AMI and prepaid smart metering, GIS-based asset mapping, real-time data acquisition systems and ERP. Meanwhile, under the NSGM, utilities are working on state-of-the-art projects in automation, IT and communication to monitor and control power flows to points of consumption.
- Generation companies are moving forward with a wide range of digital projects to improve efficiencies and performance, and shift from time-based maintenance to predictive and reliability-based maintenance. Advanced process controls, digital asset management, advanced stockyard monitoring software, 3D modelling and digital twins are some of the key areas in which digital transformation projects are being taken up. Further, with technologies like blockchain, artificial intelligence (AI) and machine learning (ML) undergoing rapid development today, operators are looking to adopt these solutions as part of their digital transformation strategies.
- The transmission segment is seeing a growing uptake of advanced forecasting and real-time measurement systems for renewable energy management, wide area measurement (WAM) technologies and PMUs for better grid diagnostics, and solutions like EMS, modernised SCADA and ADMS. The use of big data technology to store significant amounts of historical and forecasting data is another trend that is seeing growing interest among transcos.
- That said, utilities recognise that digitalisation poses increased risks related to data theft, privacy, unintended cyber incidents and intentional cyberattacks. Therefore, it is essential to build digital energy security around the concepts of digital system resilience, cyber hygiene and security by design as utilities move forward with their digital plans.
- **The mission of this virtual conference is to focus on:**
  - New and Emerging IT-OT Requirements of Utilities
  - Progress under Government Programmes (IPDS, R-APDRP, NSGM, Smart Meter National Programme)
  - Promising Technologies and Solutions (IoT, AI, ML, Blockchain, Big Data, Cloud, AMI)
  - Digital Transformation Trends, Best Practices and Use Cases

Target Audience

- The conference is targeted at:
  - IT officials/managers in generation, transmission and distribution
  - Top- and middle-level operations managers involved in OT
  - Managers of power plants (public/private/captive)
  - Consultancy organisations engaged by utilities
  - Providers of basic power technology, equipment, products and services
  - Marketers of IT-based products and services such as SCADA, GIS and metering
  - Marketers of enterprise software solutions such as ERP, CRM and billing systems
  - Communication/Connectivity solution providers
  - Renewable energy developers (solar rooftop and wind)
  - Data centre solution providers
  - IT hardware manufacturers
  - Outsourcing firms
  - Sector regulators and policymakers
  - HR and training consultants
  - Energy managers and auditors
  - Energy traders
  - Other power sector professionals
  - Etc.

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- What have been the key IT/OT related trends in the power sector?
- What are the new and emerging utility challenges pre- and post-Covid?
- What are the key issues and concerns?
- What is the outlook?

ACCELERATING DIGITAL TRANSFORMATION

- What are the opportunities that digitalisation presents for utilities?
- What are the promising digital technologies for utilities to navigate operations during Covid times?
- What has been the experience so far?

UPDATE ON GOVERNMENT PROGRAMMES

- What has been the progress under government programmes (IPDS, NSGM, R-APDRP, SMNP, etc.)?
- What has been the impact of Covid on the roll-out plans and timelines?
- What have been the learnings and experience so far?
- What are the next steps planned?

UTILITY PERSPECTIVE

- What are the new and emerging IT/OT requirements of utilities both pre and post-Covid?
- What has been the experience so far and barriers to IT-OT integration?
- What are some of the business areas that will be covered through IT/OT integration going forward?

REGULATORY PERSPECTIVE

- What is the regulator's perspective on the adoption of IT-OT by utilities?
- What are the regulatory measures being taken to encourage technology adoption?
- What are the biggest issues and concerns from a regulatory standpoint?

AMI AND SMART METERING - TOWARDS 250 MILLION SMART METERS

- How can utilities leverage smart meters for contactless energy measurement and billing?
- What are the other benefits derived by utilities from AMI and smart metering?
- What has been the utility uptake so far? What are the key issues and challenges?
- What is the future outlook for deployment?

ASSET MANAGEMENT AND REMOTE MONITORING

- What are the new and emerging asset management-related requirements due to Covid?
- 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?

WORKFORCE MANAGEMENT AND WFH FOR UTILITIES

- What are the Covid-related challenges being faced in work-from-home and workforce management by utilities?
- What are the strategies being adopted?
- What are the promising digital tools and solutions in this regard?

SMART GRIDS AND NSGM UPDATE

- What has been the experience and learnings from smart grid pilots?
- What are the projects and plans under NSGM?
- What are the issues and concerns? What is the way forward?

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

- What are the use cases of new technologies for energy utilities?
- What are the potential benefits? How can these address Covid-related challenges?
- What are the strategies required for the convergence of new technologies into legacy IT/OT systems?

PROMISE OF BLOCKCHAIN

- What is the potential of blockchain technologies for utilities?
- How has been the global experience?
- What are the must-haves for implementing blockchain? What are the key issues?

CYBER SECURITY IMPERATIVE

- What are the cybersecurity threats and risks for utilities?
- What is the way forward for better securing their IT/OT infrastructure?
- What are the best practices?

FOCUS ON ELECTRIC MOBILITY

- What are the new and emerging challenges associated with EV penetration for utilities?
- What are the IT-OT solutions being deployed by utilities to better manage integration of EVs?
- What are the issues and concerns? What is the way forward?

There will be dedicated segment-specific tracks on generation, transmission and distribution. These will cover areas such as communications, data analytics, real-time monitoring, asset management, regulatory compliance, management information systems and smart grid. The dedicated tracks will also cover focused areas, including:

SEGMENT-SPECIFIC TRACKS - GENERATION, TRANSMISSION, DISTRIBUTION

TRACK I - TRANSMISSION

- What have been the key areas for IT-OT adoption by transcos?
- What are the key challenges being faced due to Covid?
- What are some of the most relevant and promising IT-OT technologies and solutions for transcos?
- What has been the utility experience?

TRACK II - GENERATION

- What have been the key areas for IT-OT adoption by gencos?
- What are the key challenges being faced due to Covid?
- What are some of the most relevant and promising IT-OT technologies for gencos?
- What has been the utility experience?

TRACK III - DISTRIBUTION

- What have been the key areas of IT-OT adoption by discoms?
- What are the key challenges being faced due to Covid?
- What are some of the most relevant and promising IT-OT technologies for discoms?
- What has been the utility experience?

Participating organisations:

This conference elicits strong participation from major organisations including: ABB, Accenture, ACE Control Tech, Actaris, Adani Power, AES, ALSTOM, Analog Devices, Ashok Leyland, A2Z, Avantha Power, Aveva, Avineon India, Bahwan Cybertek, Barco, BHEL, Blue Star, BPL Telecom, CA Technologies, Canada Trade Office, Capgemini, CPRI, CMC Limited, CMS Computers, CES, Consus Consulting, CPCL, Creative Microsystems, CRISIL, Cyient, Datagen Power, Deloitte, Descon, Diamond Power, DPSC, DSCL, Dynalog, EY, Easun Reyrolle, ECIL, Efftronics, Enercon, Energy Infratech,, ESDS, ESRI, ETAP Automation, Fedders Lloyd, Fluentgrid, Fox Solutions, GE, Genus, GIFT, GMR, GTL, Greenko Group, Grove Limited, HCL, HP, Hindustan Controls, Hitachi, Honeywell, Hughes, IBM India, ICRA, ICSA, IFS, Indo Rama Petrochemicals, Infosys, Infotech, Infozech, Invensys, Infor, Itron , India Smart Grid Forum, Jaiprakash Associates, Jal India, JUSCO, Jaypee Ventures, JSPL, KPCL, Kaveri Communications, KLG Systel, KPMG, KPIT, Krohm Solutions, KSK Energy, L&T, L&T -Sargent & Lundy, Lahmeyer, LANCO, Lapp Holding, Leena PowerTech, MagikMinds Software, MCT India, Merchem Limited, M.N. Dastur & Company, Maruti Udyog, METSO, MOXA, Nascent Infotech, NI, NPCL, NPTI, NDMC, NEEPCO, NELCO, NESCO, Nexant, Nish Automation, NSOFT (INDIA), Opower, OMNI AGATE Systems, Oracle, OSI, Parbati-Koldam Transmission Co., PCI Limited, Perfect Controls, PFC Consulting, Phoenix IT, Prasanna Technologies, PMAS, PMI Associates, PTC, PowerOne Data, Powertec, PwC, ProArch Solutions, Quadrant Consultants, Ramco, Rare Enterprise, REC, Red Hat, Regency Infotech, Reliance, Reli-e-Marg Software, Riken Instrumentation, RMSI, Rockwell Automation, Rolta, RS Consultant, RuggedCom, Sai Computers, SAS, SAI Electricals, SAP, SBI Caps, Schneider Electric, SCOPE, Secure Matrix, Secure Meters, Sensus, Siemens, Softspin Services, SPANCO, SPML, SSM Infotech, ST Microelectronics, State Grid Corporation of China, Steag, Stelmec, Sterlite, Sun Microsystems, Suntech Group, TCS, TERI, Tecknobridge Software Solutions, THDC, The New India Assurance Co., Tirumala, Torrent Power, TVA Star Engineering Solutions, Unique Structures and Towers, Va Tech Ventures, Vizag Steel, Wipro, Zyxel Technologies, etc.

A key highlight of the conference is the major participation from public/private utilities. Some of these include:

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.
- 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)
- 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

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Registration Fee

	INR	GST@18%	Total INR	Total USD
1 Login	9,000	1,620	10,620	150
2 - 3 Logins	15,000	2,700	17,700	250
4 - 5 Logins	21,000	3,780	24,780	350
6 - 9 Logins	27,000	4,860	31,860	450
10 - 20 Logins	33,000	5,940	38,940	550

Special low fee for power utilities (state-owned GENCOs, DISCOMs and TRANSCOs)

- INR 1,500 plus 18% GST per login
- INR 10,000 plus 18% GST for Bulk logins (10-20)

- 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 https://indiainfrastructure.com/events/19th-edition-it-ot-in-power-a-virtual-conference/

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Sponsorship opportunities are available

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.

Organisers

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure and power sectors. It publishes **Power Line, Renewable Watch, Smart Utilities** and **tele.net** magazines. It also publishes a series of reports on the energy sector including **Cost of Power for Discoms and Industrial Users, Power Transmission in India,** and **Power Distribution in India**. The company also publishes **Power News** (a weekly newsletter) and the **Power Line Directory and Yearbook.**

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