

21<sup>ST</sup> EDITION

Organisers:

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Smart Utilities

# IT & OT IN POWER

## A CONFERENCE ON

Utility Best Practices, Emerging Technologies and Digital Transformation Roadmap  
September 20-21, 2022 | The Grand, Vasant Kunj, New Delhi

### Key Highlights:

- ❖ *Power Line's* longest running conference
- ❖ Excellent participation from central, state and private power utilities
- ❖ Must-attend for power sector and IT professionals
- ❖ Platform to share latest technology developments
- ❖ Showcase by global technology leaders
- ❖ Views of policy-makers and government agencies
- ❖ All key stakeholders represented

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\*Lead and co-sponsorship slots available

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## Mission

- The power sector is undergoing digital transformation in a big way. IT-OT integration is playing a key role in the digitalisation of power utilities. In the rapidly evolving energy landscape, IT-OT convergence is enabling utilities to change how they develop and operate their networks as well as deliver economic and efficient services to consumers.
- On the distribution side, there has been a strong policy push towards IT-OT integration, particularly the implementation of smart prepaid metering, under various government programmes. Specifically, the newly launched Rs 3 trillion Revamped Distribution Sector Scheme (RDSS) is aimed at increasing technology penetration in the day-to-day operations of utilities in the coming two to three years. It lays an emphasis on 100 per cent prepaid smart metering at all levels.
- Discoms see a strong business case in developing a structured approach to IT-OT integration. Customer information systems, outage management systems, demand response management systems and EV roll-outs, IT-OT technology convergence that is aligned with technologies like AI/ML, analytics, cloud, etc. are expected to play a key role in the distribution segment in the next few years.
- For generation companies, a key driver for IT-OT integration has been improvement in asset health and efficiency while reducing downtime and costs. Utilities are adopting advanced solutions like AI, ML and IoT to improve equipment operations and worker safety, achieve flexibilisation, optimise field operations, find and address problems in real time and optimise field operations.
- Meanwhile, with the surge in renewable energy sources such as wind and solar power, which are intermittent in nature, utilities are increasingly relying on digital technologies such as remote monitoring, advanced analytics, energy storage solutions and distributed grid systems to stabilise their supply and monitor the status of assets.
- For transmission utilities, IT-OT convergence is enabling them to capture data on system availability, tripping, outages in a granular way, and address reliability and operational concerns in real-time grid monitoring. At the same time, integration is helping them to move beyond time-based preventive maintenance for their critical assets to proactive and financially optimised maintenance strategies.
- However, as IT-OT systems move towards more open data and digitalisation, a key challenge for utilities is to enhance cybersecurity controls. Utilities would be required to understand the types of threats that pose a risk and select security devices, tools and platforms that can monitor, detect and respond to these threats.
- Another issue that needs to be addressed is the lack of interoperability and harmonisation of standards for network, data communication and system integration. Further, a talent strategy must be adopted to develop the critical digital capabilities of utilities.
- **The mission of the conference is to highlight the key trends in IT-OT integration for power generation, distribution and transmission utilities; deliberate upon the new and emerging requirements of power utilities; and discuss the utility strategies, experiences and challenges in their digitalisation transformation journey. The conference will also showcase best practices, and the most promising technologies and solutions.**

## 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

## AGENDA/STRUCTURE

### Plenary Sessions

#### KEY TRENDS AND OUTLOOK

- ❖ What have been the key IT and OT related trends in the power sector?
- ❖ What are the new and emerging utility requirements?
- ❖ What are the key focus areas? What is the outlook?

#### UTILITY PERSPECTIVE

- ❖ What has been the utility's strategy and experience in IT-OT integration?
- ❖ What are their emerging needs and requirements?
- ❖ What are their future plans? What are the key issues and concerns?

#### UPDATE ON GOVERNMENT PROGRAMMES

- ❖ What has been the progress under various government programmes (RDSS, SMNP, etc.)?
- ❖ What are the key priority areas under these programmes?
- ❖ What have been the key lessons learnt? What have been the issues and challenges?

#### FOCUS ON SMART GRIDS AND NATIONAL SMART GRID MISSION

- ❖ What has been the progress on smart grid projects sanctioned under NSGM?
- ❖ What has been the implementation experience and outcomes so far?
- ❖ What are the next steps planned?

#### CLOUD COMPUTING & BLOCKCHAIN

- ❖ What are the business use cases for cloud & blockchain by utilities?
- ❖ What has been the experience so far?
- ❖ What are the barriers and challenges?

#### ASSET MANAGEMENT AND REMOTE MONITORING SOLUTIONS

- ❖ What are the changing utility requirements with regard to asset management?
- ❖ What are the promising solutions for asset management and remote monitoring?
- ❖ What has been the utility experience so far? What are the key issues and challenges?

#### DISRUPTIVE TECHNOLOGIES - AI, ML AND IoT

- ❖ How can technologies like AI, ML and IoT support the new requirements for utilities?
- ❖ What are the business use cases for AI, ML and IoT for power utilities?
- ❖ What are the strategies and roadmap for the adoption of AI, ML and IoT?

#### E-MOBILITY AND CHARGING INFRASTRUCTURE

- ❖ What have been the key utility initiatives in the charging infrastructure space?
- ❖ What has been their experience and what were the key challenges?
- ❖ What is the outlook? What are their future plans?

#### CYBERSECURITY AND DATA PRIVACY

- ❖ What are the new and promising solutions for managing cybersecurity risks?
- ❖ What are the issues and concerns associated with data security and protection?
- ❖ What has been the utility experience so far?

There will be dedicated segment-specific tracks on generation, transmission and distribution. These will cover areas such as: AMI, communication technologies, AI, ML, IoT and data analytics, drones, AR and VR, blockchain, real-time monitoring, asset management, WAMS and PMUs, etc.

### SEGMENT-SPECIFIC TRACKS - GENERATION, TRANSMISSION, DISTRIBUTION

#### TRACK I - TRANSMISSION

- ❖ What is the perspective of transcos on IT-OT technology adoption and integration?
- ❖ What are the new and emerging requirements?
- ❖ What has been the implementation experience, including key challenges? What are the future plans?

#### TRACK II: DISTRIBUTION

- ❖ What is the perspective of discoms on IT-OT technology adoption and integration?
- ❖ What are the new and emerging requirements?
- ❖ What has been the implementation experience, including key challenges? What are the future plans?

#### TRACK III: GENERATION

- ❖ What is the perspective of gencos on IT-OT technology adoption and integration?
- ❖ What are the new and emerging requirements?
- ❖ What has been the implementation experience, including key challenges? What are the future plans?

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



## Previous Participants:

*We had excellent participation from the following companies in the previous editions: 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, Earthmetry, 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, ICOSA, Idam Infrastructure, 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, Reconnect Energy, 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, Tata Automated Systems, TCS, TERI, Technobridge 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, Yathva Energy, Zyxel Technologies, etc.*

**Speakers from previous editions** *(alphabetically sorted, company wise)*

Vijayan SR, Asst. Vice President, Digitalization Lead & Technology Manager, **ABB**

Anurag Johri, Principal, **Accenture**

Vinay Shenoy, Principal -Resources Operating Group, **Accenture**

Ashok Kumar Reddy, General Manager, ERP, **Andhra Pradesh Power Generation Company**

H. Rasheed, General Manager, IT & SAP, **AP Southern Power Distribution Company**

Abhijit Das, Asst. General Manager, **Assam Power Distribution Company**

Abhinab Saikia, Assistant General Manager, **Assam Power Distribution Company**

Tanmoy Mitra, Additional General Manager, **Assam Power Distribution Company**

Bhartendu Sinha, Vice President & Managing Director, **AutoGrid India**

Abhishek Ranjan, Additional Vice President, Systems Operation and Head, Renewable, DSM, **BRPL**

Rajesh Bansal, Senior Vice President, **BSES Rajdhani Power**

Uday Vasant Rao Deshmukh, Head -IT (Additional Vice President), **BSES Rajdhani Power**

Debashish Roy, VP-IT, **CESC**

Sanghamitra Pyne, Head-IT, Generation, **CESC Ventures-RPSG Group**

Sanjay Prasad, Chief Information Officer, **CESC**

Nimesh Mehta, General Manager, IT, **CLP India**

Rajanikanth Muppalla, GM-Utilities, **Cyient**

Rajesh Kumar Arora, Manager (Technical), **Delhi Transco**

Gaurav Angira, Director, Consulting – Energy & Resources, **Deloitte**

Srinivasa Murthy C., Chief General Manager, IT & Planning, **Eastern Power Distribution Company of Andhra Pradesh**

Ajay Sharma, Deputy General Manager, **EESL**

Pranita Desai, Sr. General Manager-IT, **Fox Solutions**

Rajendrasinh Parmar, Executive Engineer, **GSECL**

G. Gadhvi, Superintending Engineer (Operation), SLDC, **Gujarat Energy Transmission Corporation**

M.G. Gadhvi, Superintending Engineer (Operation) SLDC, Gotri, **Gujarat Energy Transmission Corporation**

Rohit Patel, DE, R&D, **GUVNL**

Akilur Rahman, CTO, **Hitachi ABB**

Deepak Choudhary, Solution Architect, **IFS Solutions India**

Dhruv Parekh, Senior Solution Consultant, **Infor (India)**

K. Tyagi, Superintending Engineer, IT, **Jaipur Vidyut Vitran Nigam**

B. Chandrashekharaiiah, Executive Engineer, Electrical, SCADA, Designs, **Karnataka Power Transmission Corporation**

P.T. Seenath Beevi, Joint Director, Regional IT Unit, **Kerala State Electricity Board**

R.R. Bhalekar, GM-IT, **Maharashtra State Electricity Distribution**

Atul Bali, Senior General Manager (NSGM-PMU), **National Smart Grid Mission (Ministry of Power, Govt. of India)**

Kamlesh K Mishra, Dy.Secretary, **Ministry of Power**

Vishal Kapoor, Director-(D), **Ministry of Power**

Atul Bali, Chief General Manager, **National Smart Grid Mission**

M. Bishoyee, General Manager, IT, **NTPC**

Shylesh Srinivasan, General Manager, IT, **NTPC**

B. Mehta, Director, SLDC, **Odisha Power Transmission Corporation**

Sree Rama kumar Yeddnapudi, Principal Consultant - **Power Systems, OSI, India**

K. Tyagi, General Manager, Asset Management, **Power Grid Corporation of India**

Palka Sahini, Executive Director, **Power Finance Corporation**

R.K. Tyagi, Executive Director, **Power Grid Corporation of India**

Vishal Pandya, Co-Founder, **Reconnect Energy**

Somenath Byabortta, Industry Director - Utilities, **SAP India**

Anilkumar Kadam, Senior General Manager - EcoStruxure Solution Architect, **Schneider Electric**

Sanjay Sudhakaran, Managing Director & CEO, **Schneider Electric Infrastructure**

Amit Vaidya, Director-Strategic Customer Team ,India, **Sensus**

Pradeep Kumar Vashist, Senior Manager, Control and Digitalization, **Siemens**

R.K. Chugh, Executive Vice President, **Siemens**

Robert H.K. Demann, Head - Smart Infrastructure, **Siemens**

Vikram Gandotra, General Manager, Marketing Digital Grid, **Siemens**

Rajbans Talwar, Consultant In Optimisation, **Steag Energy Services**

Shachidevi T.K., CTO - Solution Business, **Sterlite Power Transmission**

Dr Nilesh Khane, Chief, Distribution, **Tata Power Company**

Lalit Kumar Wasan, Head Of Group Power System Control (Network Operations), **Tata Power Delhi Distribution**

Nitin Marjara, Project Coordinator (Smart Metering), **Tata Power Delhi Distribution**

Santadyuti Samanta, Head (Information Technology), **Tata Power Delhi Distribution**

A. Ramesh, Chief General Manager (IS & ERP), **Telangana State Power Generation Corporation**

Kalyan Sahu, Associate Vice President - Engineering, **Toshiba JSW Power Systems**

Andrew Ginter, Vice President, Industrial Security, **Waterfall Security Solutions**

21<sup>st</sup> Edition

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Utility Best Practices, Emerging Technologies and Digital Transformation Roadmap

September 20-21, 2022 | The Grand, Vasant Kunj, New Delhi

## Registration Fee

Delegates	Discounted fee (August 30, 2022)				Fee without discount (after August 30, 2022)			
	INR	GST@18%	Total INR	Total USD	INR	GST@18%	Total INR	Total USD
One delegate	20,000	3,600	23,600	320	25,000	4,500	29,500	400
Two delegates	32,000	5,760	37,760	480	40,000	7,200	47,200	600
Three delegates	44,000	7,920	51,920	640	55,000	9,900	64,900	800
Four delegates	56,000	10,080	66,080	800	70,000	12,600	82,600	1,000

- There is a 20 per cent discount on delegate registration fee before August 30, 2022.
- There is a special low fee of Rs 7,000 per participant for state-owned power distribution companies, state-owned transcos, state-owned gencos, regulatory authorities, research organisations and academic institutions (not public sector corporates). GST @ 18 per cent is applicable.
- GST @18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment.

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- 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 **PowerLine**, **Renewable Watch**, **Smart Utilities** and **tele.net** magazines. It also publishes a series of reports on the energy sector including **Power Distribution in India**, **Coal Based Power Generation**, **Power Transmission in India**, **Hydro Power in India**, **Solar Power in India**, **Power Market in Asia**, **Captive Power in India**, **Cost of Power for Discoms and Industrial Users**. The company also publishes **Power News** (a weekly newsletter) and the **Power Line Directory and Yearbook**.

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