



2nd Annual Conference on

DIGITALISATION OF POWER PLANTS

May 15-16, 2019, Le Meridien, New Delhi

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Organisers:

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Digitalisation of Power Plants

Mission

- The power generation industry is undergoing a significant transformation owing to market dynamics, new technologies and regulatory changes. Traditional gencos are shifting from building asset-heavy infrastructure to managing flexible, decentralised solutions while dealing with new challenges such as rapid renewables penetration, stringent regulatory compliances, and falling PLFs as well as an influx of technologies such as EVs and storage.
- To manage this transformation, the power generation industry is becoming increasingly aware that digitalisation can be a key enabler in improving asset efficiency and performance, managing demand better and controlling costs.
- Gencos are increasingly looking at digital initiatives that encompass not only critical assets such as boilers, turbines and generators, but also smaller balance of plant systems that can significantly influence plant operations.
- Solutions such as IoT, predictive analytics, machine learning, digital twins, and sensor-enabled asset health maintenance are being considered. These will allow generating assets to communicate continuously with systems and controllers, and also to identify risks before they occur, besides imparting capabilities for accurate predictive maintenance and self-repair.
- Further, digital solutions offer immense potential for enterprise management through real-time network monitoring and reporting. Customised dashboards, business intelligence tools, digital work processes, and blockchain-enabled transactions can help power generation companies move towards analytics and data-driven decision-making.
- In the hydro power segment, digitalisation can not only help in better asset management, but also allow hydro to work together with other renewable resources to provide increased flexibility and other ancillary services. For renewable energy projects, improved forecasting tools can help increase the reliability of supply and penetration of sources, without costly upgrades.
- However, as the energy sector systems that monitor and run operations become more interconnected, the threat of cyberattacks and potential privacy concerns will increase. Building digital resilience in technologies and systems is thus a key area that developers need to look at.
- To kick-start an integrated digital transformation programme, gencos need to identify priorities and processes with the greatest digitalisation improvement potential, explore new technologies by developing pilots, and build capabilities that advanced digital tools require through a human resource strategy.
- **The mission of this conference is to provide a platform to highlight the needs and requirements of gencos for digitalisation, examine the potential of digitalisation for the power generation industry, and discuss the issues and concerns that need to be addressed for the successful uptake of digital technologies and solutions. It will also showcase the latest innovations, noteworthy initiatives, and most promising and relevant technologies.**

Target Audience

The conference is targeted at:

- Power plant operators (coal, gas, hydro, thermal)
- Equipment manufacturers (steam boilers, turbines, generators, etc.)
- Technology providers
- Solar and wind power developers
- Independent power producers
- Providers of basic power technology, equipment, products and services
- Other power sector professionals
- Research and development organisations
- Engineering consultants
- Consultancy organisations engaged by utilities
- Cybersecurity firms
- Energy managers and auditors
- Certification and inspection companies

The conference will be useful for:

- IT officials/managers in generation
- Top and middle-level operations managers involved in digital plants, IoT, cloud computing, or big data
- Managers of power plants (public/private/captive)
- Cybersecurity professionals

AGENDA/STRUCTURE

DIGITALISATION NEEDS AND REQUIREMENTS

- ❖ What have been the key drivers for the uptake of digital solutions by gencos?
- ❖ What are the digitalisation needs and requirements for gencos?
- ❖ What are the key enablers needed? What are the key issues and concerns?

GENCO PERSPECTIVE

- ❖ What has been the trend in the uptake of digital solutions by gencos?
- ❖ What are the new and emerging requirements for gencos?
- ❖ What are the plans going forward?
- ❖ What are the expectations from solutions and technology providers?

INDUSTRY PERSPECTIVE: FOCUS ON TECHNOLOGY

- ❖ What has been the experience of technology providers so far? Which digital solutions/applications have seen the maximum traction for gencos?
- ❖ What are the new digital solutions that can help improve agility for gencos?
- ❖ What are some of the new offerings and solutions in the market in this regard?

DIGITALISATION FOR COAL-BASED POWER PLANTS

- ❖ Which areas in coal-based power plants hold high potential for digitalisation?
- ❖ What are the achievable benefits through the application of digital solutions?
- ❖ What has been the trend in the uptake so far? What are the key challenges?

IMPROVING FLEXIBILISATION

- ❖ What is the impact on the operating profiles of coal-based plants with the scaling-up of renewables?
- ❖ What are the digital solutions available for enhancing the flexibility of power plants?
- ❖ What are the expected benefits of deploying such solutions?

DIGITALISATION OF HYDRO POWER PLANTS

- ❖ What are the new and emerging digital requirements of hydro plants?
- ❖ What are the benefits of a digitally enhanced hydro plant?
- ❖ What are some of the new digital solutions and offerings for hydro projects?

DIGITALISATION FOR RENEWABLE ENERGY PLANTS

- ❖ What are the digital solutions most relevant for renewable energy plants?
- ❖ What are the areas in a renewable plant where digital solutions can be deployed?
- ❖ What has been the industry experience so far?

DIGITAL SOLUTIONS FOR O&M

- ❖ What are the new and emerging O&M-related challenges for gencos?
- ❖ What role can digital technologies play in the O&M of power plants?
- ❖ What are the new and emerging solutions in this regard?

DIGITAL SOLUTIONS FOR BoP AND BoS

- ❖ What are the digital technologies and solutions for BoP systems?
- ❖ What are the new and emerging digital solutions for BoS for renewable energy projects?
- ❖ What has been the experience so far and outcomes achieved?

BLOCKCHAIN APPLICATIONS FOR GENCOs

- ❖ What are the applications for blockchain technology for gencos?
- ❖ What are the expected benefits?
- ❖ What are the critical success factors?

IoT AND CLOUD FOR GENERATION PLANTS

- ❖ How can gencos leverage IoT and the cloud for improved performance?
- ❖ What has been the experience so far?
- ❖ What are the key issues and concerns?

BIG DATA, AI AND MACHINE LEARNING APPLICATIONS

- ❖ How can gencos utilise technologies such as big data, AI and ML?
- ❖ What are the critical areas where these technologies can be applied?
- ❖ What are the potential benefits and the key challenges involved in the implementation of these applications?

CYBERSECURITY

- ❖ What are the cybersecurity-related challenges that gencos face as they move towards becoming digital?
- ❖ What are the new strategies and solutions to minimise cybersecurity risks?
- ❖ How has been the uptake of such solutions by gencos so far?

FOCUS ON ASSET MANAGEMENT

- ❖ How can digital technologies help in optimising asset management?
- ❖ What are the new and emerging digital solutions for asset management?
- ❖ What are the benefits and cost savings?

Previous Participants

The participants at our previous power conferences include: ABB, Adani Ports, Adani Power, Aditya Birla, Aditya Birla Finance, AECOM, Afcons, Andritz, ATC Telecom, Aveva, AVEVA, Axis Bank, Balco, Beekay, BHEL, BP India, BPCL, BRNL, BSES, Cairn, CARE, CBRE, Chattisgarh Genco, CIDCO, CLP, Coastal Gujarat, CRDC, CRISIL, DBS Bank, Deesha Power, Deloitte, Dilip Buildcon, Dolat Capital, Doshion Water Solutions, Druk Green, DSP Merrill Lynch, E&Y, Essar Power, Essel Infraprojects, Feedback Brisa, Feedback Infra, Gammon, GE Power India, GMR, GSECL, HCC, ICICI Bank, ICRA, IDECK, IDFC Alternatives, IFCI, IFFCO, IIFCL, IL&FS Engg, IL&FS Financial Services, IL&FS Maritime, India Power, India Ratings, Indus Towers, IRB, ITNL, IVRCL, J&K SPDC, J.M. Baxi, Jaypee Infratech, Jindal Steel & Power, JM Financial, JMC Projects, JNPT, Kalpataru Power, Kotak Mahindra, KPCL, KPMG, KRDC, L&T Construction, L&T Financial Services, L&T IDPL, L&T Infrastructure Finance, Madhu Developers, Maha Genco, Marsh India, Maruti, Mazagon Dock, MEP Infra, MSEDCL, Mytrah Energy, Nabha Power, NCC, New Gen, NHAI, NHPC, NIC, NTPC, OHPC, Paramount Limited, Patel Engg, PNC Infratech, Power Grid, PTC India, PwC, Rail Vikas Nigam, Reliance Infra, Reliance Nippon Life Insurance, RITES, RMG Alloy Steel, S&P Global, Sadbhav Engg, SBI, SBI Caps, Shapoorji Pallonji, Shriram EPC, Siemens, Simplex Infrastructure, Societe Generale, Statkraft Markets, Steag Energy, Sterlite Power, Suzlon Global Services, Symantec Corporation, Tata Capital, Tata Cleantech Capital, TCE, Teesta Urja, Thermax, Toshiba - JSW, TRIL Roads, Trimble, Trust Group, UJVNL, Vistra ITCL, Voltamp Transformers, Welspun Enterprises, etc.

DIGITALISATION OF POWER PLANTS

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Registration Form

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.

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Registration Fee

Delegates	Discounted fee (before April 24, 2019)				Fee without discount (after April 24, 2019)			
	INR	GST @ 18%	Total INR	Total USD	INR	GST @ 18%	Total INR	Total USD
One delegate	18,000	3,240	21,240	354	22,500	4,050	26,550	443
Two delegates	30,000	5,400	35,400	590	37,500	6,750	44,250	738
Three delegates	42,000	7,560	49,560	826	52,500	9,450	61,950	1,033
Four delegates	54,000	9,720	63,720	1,062	67,500	12,150	79,650	1,328

- There is a 20 per cent "early bird" discount for those registering before April 24, 2019.
- GST @18 per cent is applicable on the registration fee.
- There is a special low fee of Rs 7,000 per participant for delegates from state-owned power generation companies.
- Registration will be confirmed on receipt of 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 fees includes lunch, tea/coffee and conference material.
- 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.

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Organisers

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