3rd Edition

DIGITALISATION OF POWER PLANTS

A VIRTUAL CONFERENCE
Improving Efficiency, Flexibility, Access to Data and Connectivity

June 29-30, 2020

Organisers:

30 per cent discount before June 5, 2020
15 per cent discount before June 16, 2020
REGISTER NOW
Digitalisation of Power Plants

Mission

- The importance of digitalisation has never been clearer for power plant managers. In light of the Covid pandemic crisis, ensuring uninterrupted energy supply in a cost efficient and reliable way is paramount. Deploying digital solutions can support the generation industry’s efforts to transition to new models of efficient and sustainable supply, thereby helping them to develop smarter approaches to increase reliability, improve quality, as well as manage plant operations remotely, while ensuring social distancing.

- A broad array of new and disruptive technologies including artificial intelligence, IoT, machine learning, blockchain, sensors and analysers, and robotics are helping power plant owners devise new ways of achieving efficiency gains from the existing operations and enabling new and more flexible business models.

- Regardless of the source of power generation, digital technologies are capable of delivering results for conventional power plants, including coal and gas, or for plants that are based on renewables, including hydro. Using digital solutions, coal-based power plants can reduce emissions by enabling fuel analysis and better combustion performance, as well as improve flexibility to effectively manage the impact of cycling and increase the share of renewables. Further, the digital transformation of hydropower and renewable energy plants allows monitoring and control of operations remotely and guarantees shorter response time to possible events.

- Meanwhile, with digital twin, power generators can use simulation and modelling systems to prevent outages and optimise daily power production. Plant safety and O&M are the other key areas where digitalisation can have a significant impact by enabling real-time tracking for predictive, preventive and condition-based maintenance programmes.

- As power generators move towards implementing their digital transformation strategies, data security will become a key aspect. Cybersecurity is a cause for concern for power plant managers exploring digital deployments. Gencos, therefore, need to ensure that their risk management and response practices are aligned with a digitally controlled environment.

- Net net, traditional utilities, which are seeking to adapt to the situation at hand, can utilise the opportunity to implement digital solutions that would enable them to meet the new market demands as well as ensure successful business recovery in the aftermath of the pandemic.

The mission of this virtual 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 and the most promising and relevant technologies.

Target Audience

The conference is targeted at:
- Power plant operators (thermal, hydro, gas)
- 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

The conference will be useful for:
- IT officials/managers in the power generation segment
- Managers of power plants (public/private/captive)
- Cybersecurity professionals
- Research and development organisations
- Engineering consultants
- Consultancy organisations engaged by utilities
- Cybersecurity firms
- Energy managers and auditors
- Certification and inspection companies
- Top and middle-level operations managers involved in digital plants, IoT, cloud computing, or big data

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.

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AGENDA/STRUCTURE

DIGITALISATION TRENDS, DRIVERS AND REQUIREMENTS
- What have been the key digital technology trends in the power generation segment?
- What have been the key drivers for the uptake of digital solutions by gencos?
- What are the key digital issues and concerns? What is the outlook?

GENCO PERSPECTIVE
- What are the new and emerging genco requirements?
- What has been the trend in the adoption of digital solutions so far?
- What are the digital strategies and plans? What are the key issues and concerns?

DIGITALISATION: FOCUS ON COAL-BASED POWER PLANTS
- What are the potential benefits of digitalisation for coal-based power plants?
- What are the new and promising digital solutions?
- What has been the trend in the uptake so far? What are the concerns?

DIGITALISATION: FOCUS ON HYDROPOWER PLANTS
- What is the potential for digitalisation in hydropower plants?
- What are some of the new digital solutions and offerings for hydro projects?
- What has been the experience so far?

DIGITALISATION: FOCUS ON RENEWABLE ENERGY PLANTS
- What are the most relevant digital solutions for renewable energy plants?
- What are the areas/processes where digital solutions can be deployed?
- What has been the industry experience so far?

DIGITAL PRODUCTS AND SERVICES
- What products (sensors, actuators, controllers, etc.) are the most relevant for the digitalisation of power plants?
- What has been the trend in deployment?
- What have been the performance gains?

DIGITALISING O&M OPERATIONS: FOCUS ON BUSINESS OPTIMISATION
- 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?

TECHNOLOGIES FOR ASSET MANAGEMENT: FOCUS ON EQUIPMENT RELIABILITY
- 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?

ROLE OF IOT AND ANALYTICS
- How can gencos leverage IoT and cloud for improved performance?
- What has been the experience so far?
- What are the key issues and concerns?

REMOTE MONITORING AND DIAGNOSTICS
- What are the remote monitoring/diagnostics solutions for power plants?
- What are their features?
- What has been the experience so far?

EMERGING TECHNOLOGIES - AI, ML, BLOCKCHAIN, AR, VR
- What is the potential of new and emerging technologies such as AI, ML, blockchain, and virtual reality?
- What are the areas where these technologies can be applied?
- What are the challenges and limitations in deploying them?

CYBER RISK MITIGATION
- What are the cybersecurity risks that plants face as they move towards connected applications?
- What are the cyber risk strategies and solutions that can be considered?
- What has been the uptake of such solutions by gencos so far?

DIGITALISATION: FOCUS ON RENEWABLE ENERGY PLANTS
- What is the potential of digitalisation in improving the safety of power plants?
- What are the new and promising digital solutions?
- What has been the experience so far?
- What are the issues and concerns?

DIGITALISATION OUTAGES
- What are the digital solutions for reducing plant and equipment downtime and outages?
- What is their performance compared to traditional methods?
- What has been the experience so far?

- What has been the trend in the adoption of digital solutions so far?
- What are the digital strategies and plans? What are the key issues and concerns?
DIGITALISATION OF POWER PLANTS
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June 29-30, 2020

Registration Fee

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- There is a 30 per cent discount before June 5, 2020
- There is a 15 per cent discount before June 16, 2020
- 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/3rd-annual-conference-on-digitalisation-of-power-plants/

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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.

Sponsorship opportunities are available

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 Coal-based Power Generation in India, Hydro Power Market in India, Solar Power Market in India, Captive Power Plant in India, etc. It also publishes Power News (a weekly newsletter) and a Power Line Directory and Yearbook.

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