

2nd Annual Conference on

THERMAL GENERATION IN INDIA

January 28-29, 2025 | Le-Meridien, New Delhi



Organiser:



Co-sponsors so far:



MISSION

- Both peak and energy demand are expected to increase significantly over the next decade. To meet the growing demand, reliable and affordable coal-based power generation is expected to continue playing a key role.
- There has been a significant ramp-up in capacity additions in the sector (more than 5 GW being added in the last fiscal). The share of coal-based power was nearly 75 per cent of the total power generation in the previous fiscal year.
- Beyond the existing pipeline of projects under construction (around 28 GW), the sector is slated to see more thermal capacity additions in the next few years to meet the sustained demand growth. The government has already developed plans to install almost 80 GW of coal-based power plants in the next decade.
- In line with this announcement, contract awards have picked up pace in the past few months. A special thermal project monitoring group has also been set up by the government to oversee first-hand progress of both public and private sector projects. The Central Electricity Authority has also recommended refraining from retiring or re-purposing coal power stations before 2030 in anticipation of energy demand scenarios.
- All this will lead to a changing role of baseload power, with a significant focus on facilitating decarbonisation and addressing environmental concerns. A critical issue for the existing capacity will be to accommodate growing variable renewable energy and gradually achieve a 40 per cent minimum technical load operations. Combustion tuning must accelerate to improve ramp rates. R&M will be required to retrofit the existing fleet, prepare them for partial load operations and extend their plant life. In tandem, the EPC and BoP supply chain will also need to keep up with higher capacity awards in the next few years.
- Achieving higher plant efficiency will be paramount. New capacity additions are being taken up entirely through highly efficient ultra-supercritical and advanced ultra-supercritical units. This year's budget announced fiscal support for an 800 MW advanced ultra-supercritical technology-based power plant.
- Gencos are expected to incur significant investment in pollution control equipment, including FGD for SO_x reduction, low NO_x burners, ESP and fabric filters for removal of fly ash, PM control, etc. Emerging technologies like ammonia co-firing and carbon capture will also be critical to decarbonise the sector.
- The mission of this conference is to discuss the outlook of coal-based power generation in India's energy transition. It will discuss the experiences, challenges, plans and outlook of central and state utilities as well as private gencos. It will also highlight the experiences and challenges faced in the O&M of thermal power plants, water management, flexibilisation, coal and ash handling, etc. The conference will provide a platform to showcase the best practices, new and emerging technologies and solutions for thermal power plants.

TARGET AUDIENCE

The event is expected to draw participation from executives, managers and decision-makers from:

- | | |
|---|---|
| - Coal-based Power Plants | - Government and Planning Agencies |
| - Power Plant O&M Providers | - IT Solution Providers |
| - EPC Contractors | - Environmental & engineering consultants |
| - Technology Providers (FGD, Predictive Analysis, Coal Handling, Ash Handling, Emission Control, Water Management, Fuel Management, ERP, etc) | - Analysts |
| - BTG Manufacturers | - Financial Institutions |
| - SEBs and GENCOs | - Research & Development Organisations |
| | - Renewable Energy Developers, etc. |

TENTATIVE CONFERENCE PROGRAM

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KEY TRENDS AND OUTLOOK

- What have been the key trends in the thermal power generation segment?
- What have been the key recent developments?
- What are the segment's key issues and challenges? What is the outlook for capacity addition?

GOVERNMENT PERSPECTIVE

- What is the government's perspective on the coal-based power generation segment?
- What are the key issues and areas of concern?
- What is the outlook for thermal power generation? What are the key priority areas?

NTPC'S PERSPECTIVE

- What is NTPC's perspective on the coal-based power generation segment?
- What are the key issues and areas of concern? What is the way forward?
- What is the outlook for the sector? What are the future plans?

GENCOS' PERSPECTIVE

- What is the perspective of gencos on the coal-based power generation segment?
- What are the key challenges being faced?
- What are the new and emerging requirements of gencos?
- What is the future outlook? What are the key priority areas?

OUTLOOK FOR COSTS AND TARIFFS

- What is the power procurement mix of states?
- What has been the trend in tariffs and PPA signing?
- What are the key developments that are expected to impact costs and tariffs?

FINANCIERS' PERSPECTIVE

- What is the perception of lenders/investors towards the thermal power generation segment?
- What are the sector's future investment requirements? What will be the key concerns and challenges in financing new capacity build-out?
- What is the outlook towards repurposing stressed assets, retirement of assets, etc.?

CIL'S PERSPECTIVE

- What have been the trends in coal supply and offtake by coal-based power plants?
- What are the measures being undertaken to enhance coal availability to the sector?
- What are the initiatives being undertaken to expedite transportation infrastructure?

FOCUS ON EMERGING TECHNOLOGIES (CCUS)

- What is the carbon intensity of the coal-based power segment?
- What is the outlook for emerging technologies like CCUS?
- What has been the experience and progress so far?

EMISSION NORMS COMPLIANCE AND OUTLOOK

- What has been the overall progress in meeting the MoEFCC's environmental norms?
- What is the roadmap for the installation of FGD and other pollution control equipment?
- What are the promising technology options? What has been the experience in their deployment?

FLEXIBILISATION STRATEGIES

- What is the impact of variable renewable energy on the operations of coal-based power plants?
- What are the solutions for making coal-based power plants more flexible?
- What has been the gencos' experience so far? What are the challenges?

ASSET MANAGEMENT

- What are the key asset management strategies being deployed by gencos?
- What are the benefits of condition-based monitoring for power plants?
- What are the new and promising solutions?

FGD TECHNOLOGY OPTIONS

- What are the challenges in FGD implementation by power plants?
- What has been the gencos' experience so far?
- What are the key challenges? What are the gencos' plans for FGD installation?

DIGITALISATION OPPORTUNITIES

- What are the drivers for digital transformation for gencos?
- What are some of the use cases for digital solutions for thermal plants?
- What has been the experience so far? What are the most promising technologies and solutions?

WATER AND WASTEWATER MANAGEMENT

- What are the current water management practices?
- What have been the gencos' experience and key challenges faced?
- What are the solutions and best practices for reducing the water footprint?

FOCUS ON BTG EQUIPMENT

- What are the equipment-related challenges for gencos with the growing RE in the grid?
- What are the best O&M practices? How can plants achieve improvements in efficiency?
- What are the new and promising technologies and solutions being adopted?

COAL AND ASH HANDLING SOLUTIONS

- What are the challenges involved in coal and ash handling?
- What are the best practices?
- What are new and promising technologies and solutions?

PREVIOUS KEY SPEAKERS *(in alphabetical order)*

- ❖ Gaurav Angira
Director, **Deloitte Consulting**
- ❖ Kumar Bibhu
Vice President, Project Advisory & Structured Finance, **SBI Capital**
- ❖ Ashish Dab
SE, Operation Services, **DVC**
- ❖ Sanjay Kumar Dutta
Director (Projects & Commercial),
Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited
- ❖ Rajesh Ivaturi
Partner, **EY LLP**
- ❖ Girishkumar Kadam
Senior Vice President, **ICRA**
- ❖ Bhavesh Kansara
Deputy General Manager
(Segment Head – Power),
Kirloskar Brothers Limited
- ❖ Sanjeev Kumar Kassi
CE, Thermal, **Ministry of Power**
- ❖ Ashish Khanna
President – Generation, **Tata Power**
- ❖ Rajesh Kumar
Head-Operations,
Nabha Power
- ❖ B.C. Mallick
Chief Engineer,
Central Electricity Authority
- ❖ Akhil Mehrotra
Executive Director, **BHEL**
- ❖ Kartikeya Misra
Vice President and Plant Head,
JSW Energy
- ❖ Sudipta Kumar Mukherjee
ED, **CESC (Generation)**
- ❖ Manu Krishnan Namboothiri
Vice President & Head (Strategy & Sales), **DB Power Limited**
- ❖ Vijay Namjoshi
CEO, **Coastal Gujarat Power**
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COO, **Adani Power**
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Head, Technical Services,
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ED, Engineering, **NTPC**
- ❖ Alakh Srivastava
Global Product Manager,
TCS Intelligent Power Plant
- ❖ K. Shanmugha Sundaram
Director (Projects), **NTPC**
- ❖ Ashish Taneja
Deputy General Manager,
IIFCL
- ❖ Shaswattam
Executive Director (NTPC), Head of
Netra - the R&D wing of **NTPC**

PREVIOUS PARTICIPANTS

ABB, ACB, ACC, Adani, Adhunik Power, Aditya Birla, Amtek Auto, APCPL-NTPC, APGENCO, Archean Group, Atlas Copco, Atlas Logistics, Auma, Avantha Power, Axis Bank, Badrinarain Alloys & Steel, Bajaj Engineering, BALCO, Bank of Baroda, Banyan Tree Advisors, Bentley, Bharat Forge, Bharat NRE Coke, Bharat Oman Refinery, Bhartiya Rail Bijlee, BHEL, Birla Tyres, Black & Veatch, Brookings India, Bygging India, C&S Electric, Canara Bank, Carborundum Universal, Central Water Commission, Centre For Fly Ash Research & Managemen CERC, Cethar Vessels, CLP India, Clyde Pumps, CMPDI, Coal India, Coastal Energen, Coastal Gujarat Power, CRISIL, Dalmia Cement, Damodar Valley Corporation, Deloitte Touche Tohmatsu, Development Consultant, Doosan Power, DVC, E&Y, Eagle Burgmann, EICS Group, EIL, Elecon, ELP, Emerson Automation Solutions, Emerson Network Power, Epiroc Mining India, EPSA, Essar Projects, Essel Mining, Evonik, Exxon Mobil, Ferro Tech, Fichtner Consulting, FLSmidth, GE, GE India Industrial, GE, Gujarat State Electricity Corporation, GEMCO, Getzner India, Glencore India, GMR, GRIDCO, GSECL, GVK Power, Haryana Power Generation Corporation, HCC, Heavy Water Plant, Hilti, Hindalco Industries, Hindustan Zinc, Honeywell Automation, HPERC, ICF International, ICICI Bank, IDBI, IDFC, IIFCL, IMFA, IMI CCI-Control Component India, IMI Critical Engineering India, India Uniper Power Services, ISGEC, IEX, Indus Law, J Power, Jhajjar Power, Jindal India Thermal, Jindal Power, JK Cement, JM Financial, Jubilant Life Sciences, JSPL, Karam Chand Thapar & Bros, Kennametal, Kepco Plant Service & Engineering Co., KfW IPEX Bank, Korus Energy, KPMG Advisory Services, KraftPowercon, L&T Finance, L&T Power, L&T-MHPS Turbine Generators, L&T-Sargent & Lundy, Lanco Infratech, Larsen & Toubro Limited, Link Legal India Law Services, Lodge Cottrell, M3Investments, Macawber Beekay, Mahagenco, Maharashtra State Power Generation, Maithon Power, Marsh India, Mascot Dynamics, MB Power, McNally Bharat, MEIL, Mitsubishi, Mitsui, Monnet Ispat, Ministry of Power, M.P. Power Generating Company Nabha Power Limited, NALCO, New Technical Water Proofing Service and Rehabilitation, NJS, NPCC, NPTI, NTPC, North Karnataka Power, Northern Coalfields, NSPCL, NTPC, OERC, OPG Power, Oriental Rubber Industries, Peabody Energy, PFC, Power Machines, Princeton University, Proteck Circuits, PTC India, PFS, PSPCL, Punjab State Power Corporation PWC, RECPDCL, Reliance Infrastructure, Religare Cap, Siemens, Thermax, UJVN, UPRUVNL, Western Coalfields etc.

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Delegates	Fee without discount			
	INR	GST@18%	Total INR	Total USD
One delegate	25,000	4,500	29,500	369
Two delegates	40,000	7,200	47,200	590
Three delegates	55,000	9,900	64,900	812
Four delegates	70,000	12,600	82,600	1,033

Please note: There is a special low fee of Rs 7,000 per participant for state-owned GENCOs.

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ORGANISER

The conference is being organised by the leading provider of information on infrastructure sectors. The company publishes **Power Line** (India's premier power magazine), a series of reports on the energy sector, including the **Power Generation Market in India in 2023**, **Electricity Tariff Trends**, the **T&D Equipment Market**, and **Mining in India**. The company also publishes **Power News** (a weekly newsletter) and the **Power Line Directory and Yearbook**. The conferences for the power sector include the 7th edition of **Flue Gas Desulphurisation**, the 22nd edition of **IT & OT in Power**, 11th Annual Conference **Transmission Lines, Towers & Substations**, 20th Annual Conference on **Hydro Power in India**, and 16th edition of **Power Transmission in India**.

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