Conference on

Air Quality Control Systems in Thermal Power Plants

Reducing SOx, NOx and PM Emissions, New Technologies and Best Practices

May 13-14, 2019, Le Meridien, New Delhi

Organisers: Lead sponsor so far*: Co-sponsor*:

*Lead and Co-sponsorship slots are available
Air Quality Control Systems in Thermal Power Plants

Mission

- By 2030, India intends to reduce the emission intensity of its GDP by 30-35 per cent from the 2005 level.
- In this context, the Ministry of Environment, Forest and Climate Change, issued new environmental norms in December 2015 aimed at reducing emissions from coal-based power plants, which are responsible for a significant share of emissions from the industrial sector. These regulations mandate coal-based thermal power plants (TPPs) to install pollution control equipment, and plants with control equipment to improve their performance from January 2017 onwards.
- Broadly, sulphur oxide (SOx), nitrogen oxide (NOx), suspended particulate matter (SPM) and mercury are the major pollutants emitted from coal-based TPPs. A variety of air quality control systems (AQCS) are available for different plant configurations to effectively control these emissions, and many technologies can reduce more than one type of emissions.
- AQCS is one of the key solutions that can effectively capture the air pollutants. These technologies include FGD systems (wet, dry, ammonia-based, seawater, etc.) for controlling SOx emissions, de-Nox systems such as SCR, SNCR, hybrids, electrostatic precipitators (ESP) and fabric filters for controlling particulate matter (PM) emissions.
- In the Indian context, around 161 GW of capacity is non-compliant with SOx norms. The plants have submitted plans for installing FGD technologies. Further, 64 GW of TPPs, which are non-compliant with PM emissions, have submitted plans for installing ESPs.
- With a significant number of technology providers and manufacturers present in the market, access to these technologies is not a concern. However, as with all retrofits and new technologies, there are challenges in the deployment of AQCS technologies as well. These include limited proven experience in Indian conditions (using high ash Indian coal), space constraints, additional capex requirements, stringent timelines, concerns related to raw material quality and disposal of by-products.
- The mission of this conference is to provide a platform to discuss the needs, benefits, drivers and challenges associated with AQCS technologies for TPPs. It will also showcase the latest innovations and the most promising and relevant technologies.

Target Audience

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

- Power plants
- FGD Technology providers
- Government and regulatory agencies
- Consultancy organisations
- Other industrial plants
- Research and development organisations
- Environmental firms
- Etc.

Previous Participants


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AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK
- What have been the key trends in the coal-based power generation segment?
- What has been the trend in emissions from thermal power plants?
- What are the key issues and concerns? What is the outlook for the segment?

GENCO PERSPECTIVE
- What are the gencos’ plans with regard to compliance with the environment norms?
- What are the issues and challenges in meeting the norms?
- What has been the progress with regard to FGD?
- What are the expectations of gencos from technology providers and suppliers?

UPDATE ON EMISSION NORMS COMPLIANCE
- What are the stipulated norms for air pollutants as per the revised regulations?
- What has been the progress so far in meeting the emission standards? What are the timelines and targets for FGD and ESP installations?
- What have been the recent developments? What are the key issues and concerns?

MANUFACTURERS’ PERSPECTIVE
- What are the various technologies being deployed to reduce air pollutants?
- What has been the trend in ordering for equipment such as FGDs?
- What are the market opportunities? What are the new and promising solutions?

FGD OPTIONS (WET, DSI, AMMONIA, SEAWATER)
- What are the various technology options for SOx emission control?
- What are the efficiencies of these options (wet, dry, seawater, etc.)?
- What are the new trends and advancements?

FOCUS ON WET FGD TECHNOLOGY
- What are the efficiencies associated with wet FGD systems?
- What has been the experience so far?
- What are the issues and concerns? What are the new trends and advancements?

SECONDARY NOx CONTROL TECHNOLOGIES - SCR, SNCR AND HYBRIDS
- What are the efficiencies associated with secondary NOx control methods?
- What are their costs and benefits?
- What has been the experience so far? What are the issues and concerns?

PRIMARY TECHNOLOGY OPTIONS FOR NOx CONTROL
- What are the various primary NOx control technology methods (OFA, low NOx burners, etc.)?
- What has been the experience in deploying these solutions?
- What are the key issues and concerns?

FOCUS ON ESP
- What are the PM emission control technologies?
- What are the advantages that ESPs offer as compared to other PM emission control methods?
- What has been the experience so far?
- What are the key issues and concerns?

FABRIC FILTERS
- What is the efficiency of fabric filters in capturing PM emissions?
- What has been the experience so far?
- What are the issues and concerns?

MERCURY CONTROL METHODS
- What are the key available technologies and solutions for achieving mercury emission control?
- What are their efficiencies?
- What has been the experience so far? What are the new trends and advancements in this area?

FGD WASTEWATER TREATMENT SYSTEMS
- What are the key issues regarding FGD wastewater treatment?
- What are the technologies and solutions available?
- What has been the experience so far? What are the new trends and advancements in this area?

MULTI-POLLUTANT CONTROL SOLUTIONS
- What are the multi-pollutant control technology options available?
- What has been the experience so far?
- What are the key issues and concerns?

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- 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.
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