



Organisers:

POWERLINE

Indian
Infrastructure

Video Webinar Series on **AIR QUALITY CONTROL SYSTEMS IN THERMAL POWER PLANTS**

May 6-15, 2020

While new-build coal plants that have come up in recent years are using advanced supercritical and ultra-supercritical technologies, most of the currently generating fleet is inefficient and carbon-emitting. The new environment norms that were introduced in December 2015 required plants to install or retrofit various technology solutions for lowering emissions, including particulate matter, sulphur oxides and nitrogen oxides.

FGD is recognised as a mature technology globally for controlling SO₂ emissions and has proved to be effective for a wide range of coal qualities and operating conditions. Based on the CEA's analysis, FGD upgrades would be required in over 166 GW of capacity across 440 units by 2022.

Meanwhile, there are a range of technologies available for NO_x reduction, including the installation of low-NO_x burners or the use of ultra-low nitrogen content fuels and secondary emission control technologies such as SNCR and SCR. Further, ESP upgrades would need to be made in 63 GW of projects across 220 units to meet the revised PM norms.

However, the installation of emission control technologies involves high costs as well as additional O&M costs. The challenge for power plant owners thus, is to evaluate AQCS technologies that represent the best selection for each power plant based on its configuration, fuel properties, performance requirements, cost economics and other site-specific factors.

The webinars will enable the sharing of knowledge in the areas of genco experience and plans for meeting the revised emission norms. The sessions will also showcase new trends and advancements in AQCS technologies for thermal power plants. We hope that the webinar/video interaction will provide a platform for a very useful exchange of information and ideas.

WEBINAR TOPICS

NTPC's Perspective - Interaction with a senior representative from NTPC

- ❖ What has been the level of compliance achieved so far with regard to meeting the revised emission norms?
- ❖ What has been the experience and key learnings? What are the key issues and concerns?
- ❖ What have been the outcomes achieved from the pilot projects?
- ❖ What are NTPC's implementation plans and roadmap?

State Genco Perspective and Experience - Panel discussion among three to four gencos

- ❖ What are the state gencos' plans for meeting the revised environment norms?
- ❖ What has been the progress with regard to meeting the CEA's phasing plan requirements?
- ❖ What are the issues and challenges in meeting the norms?
- ❖ What are the expectations from regulators and other stakeholders?

Private Genco Perspective - Panel discussion among leading private gencos

- ❖ What is the capacity to be retrofitted to meet the revised norms for private gencos?
- ❖ What has been the progress in FGD and ESP implementation?
- ❖ What are the key issues and concerns relating to costs and affordability? What is the outlook on the financing of emission control equipment?
- ❖ What are the constraints being faced in terms of technology, raw material, space, etc.?

Focus on FGD

- ❖ What are the various FGD technology options for meeting the SO_x norms?
- ❖ How do these compare in terms of performance and costs?
- ❖ What has been the experience so far? What are the issues and concerns?
- ❖ What are the new trends and advancements?

REGISTRATION

The fee for participating in this 4-video webinar series is Rs 10,000 plus 18 per cent GST per login/delegate. There is a 20 per cent discount for registering before April 29, 2020. For group subscriptions (upto 5 logins), the price will be twice that of a single login.

Registration will be confirmed on receipt of the payment. To register online, please log on to <https://indiainfrastructure.com/product/special-payment/>

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