

You are cordially invited to  
participate in  
NTPC's O&M Conference:  
IPS 2018

Technological Challenges – Risks &  
Opportunities in Power Generation



**VENUE:**

**DAY 1**  
**MANEKSHAW CENTRE,**  
**KHYBER LINES,**  
**DELHI CANTT.,**  
**NEW DELHI, INDIA**

**DAY 2&3**  
**NTPC, PMI,**  
**PLOT NO 5-15,**  
**SECTOR 16A,**  
**NOIDA, INDIA**



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*A Maharatna  
company*



**IPS 2018**

**13-15 February 2018**  
**New Delhi**

Technological Challenges –  
Risks & Opportunities in  
Power Generation



## About NTPC

NTPC, a Maharatna Company is India's largest energy conglomerate with installed capacity of 51383MW.

A dominant power major with presence in the entire value chain of power generation from fossil fuel to hydro & renewable energy with diversification into consultancy, power trading, rural electrification & coal mining.

## IPS 2018 Snapshot

### Salient Themes

- ❖ Technological advancement and good practices in solar power, wind power and hydro power generation.
- ❖ Use of energy efficient technologies/ good practices and energy management system.
- ❖ Grid management and grid integration w.r.t. renewable energy.
- ❖ Experience / learning from supercritical steam power generation.
- ❖ Environmental and safety concerns and ESP management.
- ❖ Optimization of fuel resources and combustion.
- ❖ Gas sourcing and gas utilization.
- ❖ Performance optimization, up-gradation, efficiency & Reliability issues of coal and gas
- ❖ Strategies for O&M cost reduction.
- ❖ Ash dyke management and Ash management.
- ❖ Water management for efficient performance.

### Participant Profile

- ❖ Advisory and Regulatory Authority
- ❖ Power Plant Professionals.
- ❖ Eminent Academicians.
- ❖ Power Sector Consultants.
- ❖ Power Equipment Manufacturers.
- ❖ Service Providers

## Technological Challenges –Risks & Opportunities in Power Generation

Adaption and up-gradation of Technology is a way forward for a successful business. Ever changing Technological advancements provide both risks and opportunities and thus provides an insight to the existing business scenario. Recognizing the pivotal role of Technology and with the aim of emerging as a prominent global player in Power generation, NTPC culture promotes Pro-Technology view.

With more focus on renewables, NTPC as per its existing Corporate plan envisages capacity addition of 130 GW by 2032 with a diversified fuel mix comprising 65.4% coal, 4.6 % Gas, 1.5 % Nuclear, 3.8% Hydro, 23.1% Solar & 1.5% other Renewable Energy Sources. Since Renewable Energy is not available 24x7, It is imperative now to facilitate large scale integration of Renewable Energy sources with the Conventional sources for uninterrupted power & stability of Grid.

India has a plan for 175 GW capacity of Renewable Energy by 2022. NTPC has its green commitment to Government of India for developing 10,000 MW of renewable energy projects by 2022. In this endeavor, NTPC has already added 50 MW of Wind project at Rojmal (Gujarat) and 870 MW solar Power to its generation portfolio spread over various parts of country including 250MW plant at Anantapuramu (AP), 250 MW at Mandsaur (MP) and 260 MW at Bhadla (Rajasthan). Further, as on date, 1478 MW of Solar Projects & 250MW of wind projects are under process. NTPC Ltd has also been designated as the Implementation Agency by Govt. of India for Solar Project Implementation under NSM (MNRE Scheme) which involves setting up of 15000 MW of Grid-connected Solar PV Power Plants under National Solar Mission (NSM) till 2019 in three tranches.

NTPC has already in its portfolio 800 MW Koldam Hydro Electric Power Project in Himachal Pradesh while other projects are in process. With rapid increase in solar power generation in recent times, the importance of hydro power has also increased. Fluctuations during solar and wind power generation can be balanced through hydro power due to its unique features of rapid start and stop.

Sharing of experiences on best O&M practices, strategies for enhancing efficiency, reliability, environment management and other recent technological developments are takeaway from the Conference.

## IPS 2018 Programme

Tuesday , February 13  
(Manekshaw Centre, New Delhi)

- Inaugural Session
- Conference Sessions

Wednesday , February 14  
(NTPC PMI, Noida)

- Exhibition
- Conference Sessions

Thursday , February 15  
(NTPC PMI, Noida)

- Exhibition
- Presentation by Exhibitors
- Concluding Session

### CONFERENCE REGISTRATION

- Participation in the conference is strictly by invitation.
- Registration of the invited delegates, speakers and other invitees shall be at the conference venue.

### HOTEL RESERVATION

Delhi offers a variety of options from luxurious hotels to budget guest houses. The link to hotels has been provided at the conference website [www.indianpowerstations.org](http://www.indianpowerstations.org) Delegates are advised to make reservations and settle bills directly with hotels of their choice.