

InfralineEnergy

Power Projects Reports Series

Proposed Power
Projects in India

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भारत सरकार
GOVERNMENT OF INDIA

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MINISTRY OF POWER

श्रम शक्ति भवन, रफी मार्ग

SHRAM SHAKTI BHAWAN, RAFI MARG

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NEW DELHI - 110001

20th May, 2009

MESSAGE

With persisting energy and peak shortages, it is imperative that fresh capacity addition is given the highest priority, focus and impetus. The XIth Plan target of adding 78,000 MW of fresh capacity will go a long way in addressing the shortages. The XIIth Plan would definitely have a higher target as demand is also expected to rise dramatically.

This publication on "*Proposed Thermal Power Projects in India*" prepared by Infraline Energy is a good attempt that captures some of the thermal projects being considered for development or are being developed primarily in the private sector.

I am sure the compilation will provide a useful academic input to all interested.

(Gireesh B. Pradhan)



EXECUTIVE SUMMARY

Thermal Power in India holds significance as it constitutes over 63% of the total Proposed capacity (147,965 MW¹) and 81%² of the total generation in the country.

According to CEA, the country faced peaking shortage of more than 12% and energy shortage of about 11% during 2008-09. To bridge the demand supply gap, the government has introduced policies and reforms to promote competition and make the sector open to all players. The government has also set ambitious targets for capacity addition for the XI and XII Plans. Taking cue from these, a lot of projects have been proposed specially in the thermal segment.

Infraline Energy's third report, as part of Power Project Report Series, is an effort to showcase some of these thermal power projects, which are at initial stage and/or are under various stages of regulatory clearances. The report further analyses some important trends mentioned as below:

- **About 50% projects based on Super Critical technology:** Out of the 76,198 MW being proposed and detailed in this report, about half of the capacity is through the super-critical technology clearly indicating a move towards more efficient and environment friendly technology.
- **About 90% capacity of 1000 MW and more:** About 90% of the proposed capacity to come from projects with an Proposed capacity of 1,000 MW and more demonstrating a shift to large installed capacities in order to reap economies of scale as well as to gain incentives from the government policies encouraging mega capacities.
- **About one third capacity based on blended/imported coal:** More than 65% of the proposed capacity from projects with indigenous coal as a fuel and more than 32% from blended or imported coal.
- **About three per cent capacity based on gas as fuel**

¹ As on March 31, 2009

² For the period 2008-09

The 200 page Report comprehensively covers details on 58 Proposed Thermal Power Projects in 13 states across India

- Promoter
- Location (District/Village/Taluk/State, Latitudes/Longitudes)
- Infrastructure Details (Nearest Town/Port/Airport/Railway/Highway, Distance from state boundary)
- Proposed capacity and Unit configuration
- Fuel and Fuel Requirement / Source
- Land Requirement
- Water Requirement/Source
- Estimated cost
- Expected Commissioning date
- Key Regulatory Clearances viz. Consent for establishment of plant from State Government, Environment clearance, Land Acquisition, Water Clearance, Stack Height
- Project Background with Project Location images/maps
- Land Requirement/Use Break-up and Site Comparison
- Estimated Water Requirement (Break-up)
- Fuel Specifications
- Flue Gas Emission
- Fly Ash Utilization
- Solid Waste Management
- R&R
- Barge Route / Drainage / Monitoring Stations
- Expected Pollutants and Control measures
- Developer's Contact Details

InfralineEnergy Research Team conducted an extensive survey over a period of eight months to collect the data of the projects which are under initial stages (getting critical permissions like Environmental clearances, etc.) keeping in mind the interest of the following stakeholders:

- Power Project Developers
- Power Equipment Manufacturers
- Banks, Project Financers and Investment Bankers
- Consultants
- Regulatory Bodies
- Infrastructure Developers and Financers
- Transmission and Distribution Companies
- Power Traders
- Coal Mining Companies
- Coal Traders

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