

Water Shortage to Hit Power Sector in India: is there is Enough Water to Support India's Power Expansion?

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Abstracts

Why Should the Industry worry? No Water, No Power!

Water in a coal-based power plant is heated and turned into steam for power. Power plants require a substantial amount of water for cooling purposes and for operations. But nearly two-thirds of India's power plants are located in water-scarce or water-stressed areas. And nearly 80 percent of the plants planned for the future will be located in such areas. This conflict illustrates the importance of taking water related risks into account when planning future developments. Huge investments are at risk.

Most of the thermal power plants in India lie in the water stressed areas and in a need to suffice this need they could create imbalance on a social front where drinking water could take a hit to meet growing demand for water by the power plant

Water supply to the existing plants and the new ones to come is likely to be a very big challenge as there is uncertainty associated to sustainable supply of the resource

Every 1 MW of thermal power plant requires over 33,000 m³ of water / year. For sure over 200 GW of thermal capacity seen by 2020 would witness water shortage

Contents

1. EXECUTIVE SUMMARY

2. WATER DEMAND & AVAILABILITY SCENARIO IN INDIA

Water demand & supply by states / regions

Water demand & supply by end users

Trends in per capita water consumption

Factors causing water strain in India – climate change

3. WATER USAGE NORMS & SOURCE OF WATER SUPPLY TO POWER SECTOR

Quality & Quantity

Usage norms in thermal power, hydropower, nuclear and solar thermal

Water requirement by different state level generation companies, IPPs, MPPs, CGS

Supply source in different states – sea water, fresh water, waste water

4. ESTIMATING CURRENT & FUTURE DEMAND FOR WATER IN POWER SECTOR: 2012, 2020, 2050

BAU Scenario– Projected Power Capacity & Demand for Power (Irrigation Water Demand & Other Industry)

Optimistic & Realistic Scenario– Projected Power Capacity & Demand for Power
Competition from other industries

5. ASSESSING THE DEMAND VS. SUPPLY GAP FOR WATER IN POWER SECTOR

Estimated increase in water resources in India

Projecting the water availability across states

Water likely to be available for power sector

6. WATER SHORTAGE RISK ASSESSMENT OF ALL POWER PLANTS IN INDIA

Current power plants - high, medium, low

Planned power plants – high, medium, low

7. RISK PROFILING OF STAKEHOLDERS HAVING ASSETS / INVESTMENTS IN WATER STRESSED REGIONS

Water Shortage to Hit Power Sector in India: is there is Enough Water to Support India's Power Expansion?

State Generation Companies
Private Utilities – Reliance, Tata, Adani, Lanco..
CGS – NTPC
Banks / Funding institutions exposure

8. BENCHMARKING DIFFERENT STATES OF INDIA ON WATER AVAILABILITY SCENARIO: 2012, 2020, 2050

Region
States

9. BENCHMARKING THERMAL POWER PLANTS ON WATER USAGE EFFICIENCY

Pioneers, Leaders & Laggards
Case studies

10. TECHNOLOGY INNOVATION TO ENABLE EFFICIENT WATER USAGE

11. OPPORTUNITIES FOR COMPANIES PROVIDING WATER AND WASTEWATER MANAGEMENT SOLUTIONS

12. PESTEL ANALYSIS OF WATER SUPPLY TO INDUSTRIES

Current & emerging

13. LESSONS FROM OTHER GEOGRAPHIES

Use of waste water in power

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