

Report on

NUCLEAR ENERGY IN INDIA

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Cygnus

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SYNOPSIS

In the last few years, demand for power in India has been growing faster than supply, due to increased manufacturing activity. This has resulted in a net deficit of about 10-14%. Over 65% of power generated currently is contributed by thermal energy, which cuts into the precious coal reserves of the country and causes environmental problems. This underscores the role of nuclear energy in India's plans for Energy Security.

Current installed nuclear power capacity in India is 3.9GWe and contributes only 3% to total power capacity. India is targeting to double the capacity in the next 5 years and scale up 5 times by 2020. Government of India is putting together an enabling policy framework for investments in this sector.

In view of the recent deal struck between the US and India with respect to peaceful use of nuclear energy, the climate is turning out to be conducive for a significant growth in the nuclear energy sector in India and will open up a lot of opportunities for investment in this sector.

In this backdrop, this report on "Nuclear Energy in India" presents the current nuclear energy scenario in the country and its future growth potential, along with impact analysis of the Indo-US nuclear deal. The report also profiles the nuclear power plants – currently operational and new plants planned- covering areas like technology deployed and involvement of foreign companies. The economics of nuclear power generation in comparison to thermal power is also discussed briefly. Besides, role of Indian government in atomic energy, its organisation structure and regulatory aspects are also covered in the report. The report also highlights the importance of FBRs and thorium-based research, which is on the main agenda for the third phase of India's nuclear power programme.

The report can be of immense help to suppliers of equipments, technology and service providers and consultants for business development as well as for building business partnerships with Indian companies. It will also help Indian corporates and consultants that plan foray into this field in one or multiple parts of the value chain.

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