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## **NATIONAL ELECTRICITY PLAN**

### **(NOW ON SALE)**

Section 3(IV) of the Electricity Act 2003 mandates CEA to prepare the National Electricity Plan (NEP) in accordance with the National Electricity Policy and notify the Plan once in five years. In fulfilment of above obligation as per Electricity Act 2003, Central Electricity Authority has prepared the National Electricity Plan in two volumes- Volume-I (Generation & Related Aspects) & Volume-II (Transmission & Related Aspects) and it has been notified in Gazette of India Extraordinary – Part II of 3<sup>rd</sup> August, 2007 vide Gazette Sl. No. 159.

National Electricity Plan covers the capacity addition in 10<sup>th</sup> Plan and perspective planning for the 11<sup>th</sup> & 12<sup>th</sup> Plan periods. The Plan was widely circulated amongst the various Stakeholders inviting comments thereon which have been considered in preparation of the Plan. This Plan is broadly based on the demand forecast of the 17<sup>th</sup> Electric Power Survey and the economy GDP growth rates projected in the Integrated Energy Policy. This further takes care of the requirements stipulated in the objectives of National Electricity Policy announced by the Government.

Volume-I of the Plan covers Generation and related aspects and covers in detail various aspects of the 10<sup>th</sup> Plan i.e. the target as well as the actual capacity addition, details of the projects slipped from the target as well as additional projects commissioned in the 10<sup>th</sup> Plan and strategy adopted to achieve maximum capacity addition. Further, detailed studies have been carried out to assess the capacity addition required during the 11<sup>th</sup> Plan and it emerges that a capacity addition of 78,530 MW comprising of 16,553 MW hydro, 58,597 MW thermal and 3,380 MW nuclear based plants is feasible during 11<sup>th</sup> Plan.

Long-term planning studies for the 12<sup>th</sup> Plan have also been carried out and it emerges that the requirement of capacity addition during the plan works out to about 82,000 MW comprising 30,000 MW hydro, 40,000 MW thermal and 11,000 – 13,000 MW nuclear plants. Other aspects such as Rural Electrification, Energy Conservation and Demand Side Management, Environment Protection & Improvement, Energy Security, Research & Development, Human Resources Development and requirement of likely inputs have also been covered in the Plan.

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Volume-II of the National Electricity Plan covers programme for development of transmission system in the country. It includes development aspects like policies, growth objectives, planning philosophy, transmission planning criteria and development process in transmission. It highlights development of an all-India national grid, chronologically describing development of State Grids into Regional Grids and integration of regional grids to form an all-India National Grid. Programme of expansion of inter-regional transmission capacity from 14100 MW at the end of 10<sup>th</sup> Plan to 37700 MW at the end of 11<sup>th</sup> Plan has been given. It also covers programme and achievements during 10<sup>th</sup> Plan period of 2002-07, highlighting development of HVDC and 765kV system during 10<sup>th</sup> Plan, development of National Grid during 10<sup>th</sup> Plan and development of regional and state transmission systems during 10<sup>th</sup> Plan period. Further, it details the 11<sup>th</sup> Plan programme, highlighting evolution of perspective transmission plan for 11<sup>th</sup> Plan period, increase in inter-regional transmission capacity, growth in 765kV and HVDC transmission system, transmission system for evacuation of power from generating stations as per the generation plan for 11<sup>th</sup> Plan, fund requirements for development of transmission system during 11<sup>th</sup> Plan, etc. It also covers issues related to synchronous integration of all the regional grids, transmission system for ultra mega projects, transmission system for Merchant Power Plant, transmission system for evacuation of power from major projects in North Eastern region along with projects coming up in Sikkim and Bhutan during 11<sup>th</sup> Plan and early 12<sup>th</sup> Plan period and inter-regional transmission capacity addition programme for early 12<sup>th</sup> Plan. The plan, as envisaged in Volume-II, incorporates and discusses in detail, the feedback received from stakeholders on the draft National Electricity Plan-Transmission.

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The National Electricity Plan prepared by CEA is a document towards realization of the Government's Mission of providing reliable and quality power at reasonable rates to all by 2012. The Plan shall serve as a road map towards the optimum growth of the Power Sector.

Following is the index of various chapters included in the plans.

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The above documents are now available on sale and the same can be purchased from the EPIS & CBIP whose address is given below.

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