



NTPC Commissions Country's First Air-Conditioned Condenser at North Karanpura Super Critical Plant in Jharkhand

Why In News?

Demonstrating its commitment to water conservation through Reduce, Reuse and Recycle, NTPC, the country's largest integrated power generating company, commissioned India's first Air-Conditioned Condenser Supercritical Plant at North Karanpura, Jharkhand on 1st March 2023.

Key points

- NTPC has commenced commercial operations of the (3' first unit of 660 MW at North Karanpura MW) in 660 Jharkhand.
- The project is envisaged with Air Cooled Condenser (ACC), which has about conventional Water-Cooled Condenser (WCC). footprint as compared to 1/3rd water Through this, about 30.5 MCM of water will be saved in a year and thus the needs of about 15 lakh people will be met annually in this area.
- NTPC has already taken several measures for sound management of water in its plants. NTPC will promote 3R (Reduce, Reuse, Recycle) to conserve and manage water along with its core business activity of power generation. NTPC Limited is also a signatory to the prestigious UN Global Compacts CEO Water Mandate.
- NTPC is committed to actively address water sustainability issues by implementing the Water Policy, which will serve as a guide for establishing water management strategies, systems, processes, practices and research initiatives.
- The North Karanpura plant will have 3 units of 660 MW each with a total capacity of 1,980 MW. The plant is based on the most efficient supercritical technology and being a pit head plant (10 km from the coal mine) will supply power to the states of Jharkhand, Bihar, West Bengal and Odisha at cheap rates.
- NTPC has always been at the forefront of leveraging technologies and has taken the lead in adopting new technologies in its power sector. NTPC currently meets 24% of the power demand in the country through coal, gas, hydro, solar and wind plants.



नॉर्थ करणपुरा
North Karanpura



India's #first Air- Cooled Condenser installed super thermal power plant

NTPC, North Karanpura declared Commercial Operation of Unit #1 (660 MW) on 01st March 2023.

With this, standalone and group commercial capacity, NTPC will become **58979 MW and 71594 MW** respectively.

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