

Power Demand in UP Reaches High

Why in News?

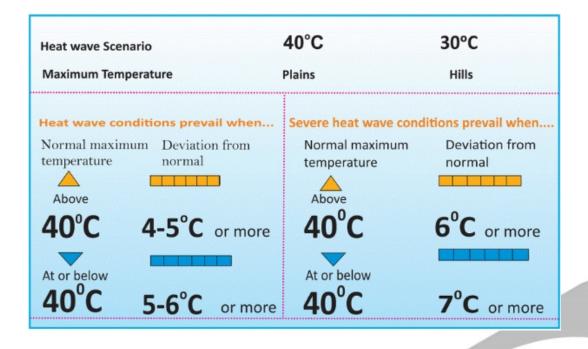
According to the **<u>Grid India Power Supply Report</u>**. Uttar Pradesh achieved the first position in the country by supplying **28,889 megawatt (MW) of electricity**, surpassing states like Maharashtra and Gujarat.

Key Points

- The power demand in Uttar Pradesh reached its highest ever due to the severe heatwave conditions and rising temperatures in the state.
 - Maharashtra, Gujarat, Tamil Nadu, and Rajasthan met demands of 24,254 MW, 24,231 MW, 16,257 MW, and 16,781 MW respectively.
- Uttar Pradesh's Power Department set a national record for the highest power supply during peak hours, demonstrating its strong energy infrastructure in the face of increasing demands.

Heat Waves

- Heatwaves are prolonged periods of excessively hot weather that can cause adverse impacts on human health, the environment, and the economy.
- India, being a tropical country, is particularly vulnerable to heatwaves, which have become more frequent and intense in recent years.
- India Meteorological Department (IMD) Criteria for Declaring Heat Wave in India:
 - Heat waves need not be considered till the maximum temperature of a station reaches at least 40°C for Plains and at least 30°C for Hilly regions.
 - If the normal maximum temperature of a station is less than or equal to 40°C, then an increase of 5°C to 6°C from the normal temperature is considered to be heat wave condition.
 - Further, an increase of 7°C or more from the normal temperature is considered a severe heat wave condition.
 - If the normal maximum temperature of a station is more than 40°C, then an increase of 4°C to 5°C from the normal temperature is considered to be heat wave condition.
 Further, an increase of 6°C or more is considered a severe heat wave condition.
 - Additionally, if the actual maximum temperature remains 45°C or more irrespective of normal maximum temperature, a heat wave is declared.



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