



Power Demand in UP Reaches High

Why in News?

According to the [Grid India Power Supply Report](#), 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.

Heat wave Scenario	40°C	30°C
Maximum Temperature	Plains	Hills
Heat wave conditions prevail when...	Severe heat wave conditions prevail when....	
Normal maximum temperature	Normal maximum temperature	Normal maximum temperature
▲ Above	▲ Above	▲ Above
40°C	40°C	40°C
Deviation from normal	Deviation from normal	Deviation from normal
4-5°C or more	6°C or more	6°C or more
▼ At or below	▼ At or below	▼ At or below
40°C	40°C	40°C
5-6°C or more	7°C or more	7°C or more

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