

Number of power stations in India How many units generate electricity

What is the total installed power generation capacity in India?

The total installed power generation capacity in India as on 30th June 2025 is 484818.82 MW, with sector wise and type wise break up as given below. For the state wise installed power generation capacity, refer to States of India by installed power capacity.

How many nuclear reactors are there in India?

As of 30 April 2025, India has 25 operational nuclear reactors with a installed capacity of 8880 MW (1.9 % of total installed capacity) accounting for around 3% of electricity generation. 10 more reactors with total capacity of 8000 MW are under construction. \$-> Retired/scrapped power stations Thermal power is the largest source of power in India.

How did India's electricity generation perform in 1Q 2025?

India's total electricity generation from all sources during 1Q 2025 was 445.49 billion units (BUs), marking a 3.6% increase over the 429.85 BUs generated in 1Q 2024. This growth reflects both increasing demand and a transition in the energy mix. Solar and wind power generation increased by 16.6% from Q1 2024 to Q1 2025.

Which are the utility power stations in India?

The following lists name many of the utility power stations in India. Kudankulam Nuclear Power Plant with an installed capacity of 2,000 MW. This station is being expanded to 6,000 MW capacity.

What is India's share of nuclear power plant generation capacity?

India's share of nuclear power plant generation capacity is 1.2% of worldwide nuclear power production capacity, making it the 15th largest nuclear power producer.

Which state produces the most electricity in India?

The major states leading in captive power generation are Odisha, Gujarat, Chhattisgarh, Karnataka, Uttar Pradesh and Rajasthan which are producing nearly 66% of the total. Other Renewable Energy sources include SHP (Small Hydro Power - hydel plants ≤ 25 MW), Biomass Power, Urban & Industrial waste, Solar and Wind Energy

While solar and wind are the main drivers of non-fossil fuel capacity, India has also witnessed contributions from hydro, biomass, waste-to-energy and nuclear power over the years.

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At the same time, many power stations are idling for lack of electricity demand and the idling generation

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capacity is sufficient to supply the needs of households lacking electricity three ...

This was more than four times the number of such power stations in India, which ranked second. China accounts for over 50 percent of total global coal ...

All India / Regionwise Power Generation Overview 12-Mar-2025 All India / Regions Installed Capacity (MW) Monitored Capacity (MW) Annual Target (MU) Generation 2024-25 (MU) Apr 1 ...

List of Nuclear Power Plants in India Nuclear power, after thermal, hydroelectric and renewable electricity, is the fifth-largest energy source in India. As at March 2017, India ...

Performance of Generation from all Sources. 1.1 The electricity generation target (Including RE) for the year 2023-24 has been fixed as 1750 Billion Unit (BU). i.e. growth of around 7.2% over ...

Power Generation data is taken from nuclear, thermal and hydro power stations across india. The data is collected on daily basis. It contains generation data by state, sector, power station type, ...

Karnataka Power Corporation Limited (or KPCL) is a company owned by the government of Karnataka, and is engaged in generating electrical power in the state of Karnataka in India.

A 1 MW solar power plant is a solar system that operates with a 1-megawatt capacity. It can be considered as a Ground Mounted Solar Power Plant or Solar Power Station, as it requires ...

Nuclear, coal and wind are just three types of energy that are used to generate electricity in power plants across the world. But as a number ...

India's electricity generation in FY 2024-25 touched a new high of 1,821 billion units (BU) marking a continuation of the upward trajectory since the pandemic slump.

