

How many substations are there in India s power base station





Overview

There are different types of thermal power plants based on the fuel used to generate the steam, such as coal, gas, diesel, and natural gas. About 71% of the electricity consumed in India is generated by thermal power plants.

The total installed power generation capacity in India as on 31st July 2025 is 490060.69 , with sector wise and type wise break up as given below. For the state wise installed power generation.

Nuclear powerAs of 30 April 2025, India has 25 operational nuclear reactors with a installed capacity of.

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There are 21,490 Electrical substations in India as of August, 2025. The highest number of Electrical substations of India are in Maharashtra and Gujarat with 1,968 businesses and 1,663 businesses, respectively. Maharashtra makes up approximately 9.2% of all Electrical substations in the India. How many substations will be installed in India in 2030?

In terms of number of 66/33/22kV substations, Uttar Pradesh is expected to lead with 6,170 installations as of March 31, 2030, to be followed by Maharashtra (5,388), Andhra Pradesh (5,284) and Madhya Pradesh (4,992). Growth in sub-transmission substations would also need commensurate increase in feeder lines.

What will India's substation capacity be in 2022?

According to the plan document, prepared by the Distribution Planning & Technology Division of Central Electricity Authority (CEA), India's substation capacity in the sub-transmission space is likely to touch 6,24,332 MVA by March 31, 2030 – around 29 per cent higher than 4,82,810 MVA as of March 31, 2022.

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.

How many substations are there?

The number of such substations is targeted to reach 52,157 from 39,965, by the same comparison. The substations included here are of the sub-transmission variety, typically covering the voltages 66/11kV, 33/11kV and 22/11kV.

What is the total installed power generation capacity in India?

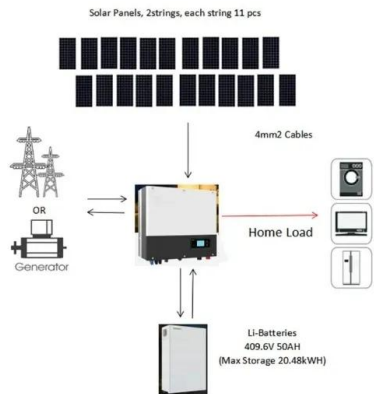
The total installed power generation capacity in India as on 30th June 2025 is 484818.82 MW, with sector wise and type wise break up as given below. For the state wise installed power generation capacity, refer to States of India by installed power capacity.

How many EHV transmission lines are there in India?

As of May 31, 2025, the company's transmission network spans approximately 1,80,239 ckm of Extra High Voltage (EHV) transmission lines and comprises 283 EHV AC & HVDC Sub-stations, boasting a transformation capacity of 5,64,961 MVA. The Government of India holds a majority stake of 51.34%, with the remaining shares held by public.



How many substations are there in India s power base station



Power sector in Andhra Pradesh

Power sector of Andhra Pradesh is divided into 4 categories namely Regulation, Generation, Transmission and Distribution. Andhra Pradesh Electricity Regulatory Commission (APERC) is ...

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Substation Capacity in India Falls Short of Targets

As of April 2024, India's total transformation capacity from substations at 220 kV and above stood at approximately 1,253,040 MVA. However, the planned additions for the ...

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Sub-Stations , POWERGRID

Eastern Region - 1 Sr No. State Substation Type
(AIS/ GIS) 1 Bihar ARA AIS 2 Bihar BANKA AIS 3
Bihar BIHARSHRIFF AIS 4 Bihar Chandauti

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Substation Transformers Explained

Learn about the different types of transformers in high-voltage substations by exploring their technical workings and the mathematical evaluations of essential parameters.



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 **LFP 12V 200Ah**

List of power stations in Telangana

Thermal power is the predominant source of power in Telangana state. There are different types of thermal power plants based on the fuel used to generate the ...

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51.2V 150AH, 7.68KWH

State wise Installed Capacity of Grid Interactive Renewable Power

6 days ago· Source: Ministry of New and Renewable Energy, MoSPI Report on Energy Statistics India 2025, Click to get data/visualization o Prepared by Data Informatics & Innovation Division ...

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Sub-transmission substation capacity to grow 29 per ...

In terms of number of 66/33/22kV substations, Uttar Pradesh is expected to lead with 6,170 installations as of March 31, 2030, to be followed ...

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Sub-transmission substation capacity to grow 29 per cent by 2030

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12V 10AH



????? ?????? , ?????? ?????? ?????
????????????? ????????

Owned by NTPC With 27 coal-based power stations, NTPC is the largest thermal power generation company in the country.

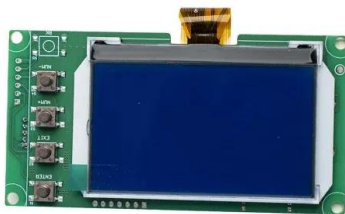
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Substation

The first substations were connected to only one power station, where the generators were housed, and were subsidiaries of that power station. 220 ...

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Types of Electrical Substations and Functions

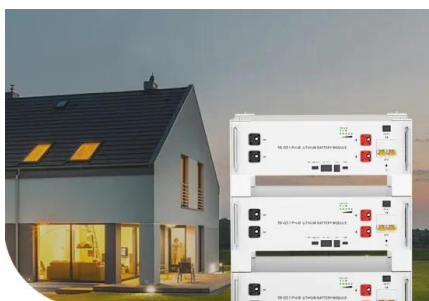
Learn about the different types of power systems electrical substations & their essential functions. Each serves an individual function in ...

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What Is Switching Station? , Working And Layout

What is a switching station? A switching station is a substation that does not contain power transformers and therefore does not change system voltage from one level to another. ...

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**Low Voltage
Lithium Battery**

6000+ Cycle Life

Top five transmission substation projects in India

4. Nellore Substation - Upgrade - 765/400 kV
Nellore Substation - Upgrade - 765/400 kV is a 765/400kV substation located at Nellore, Andhra Pradesh, India. The ...

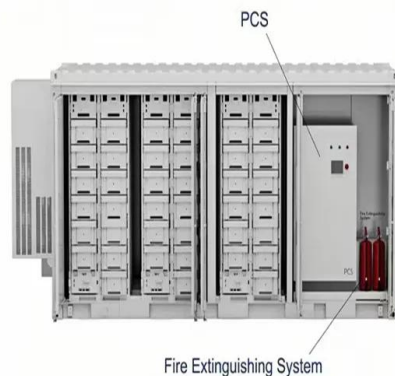
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Power Substations Statistics and Growth Figures of India

State Electricity Boards (SEBs) - India: Manpower
in State Electricity Boards (SEBs) - India
Operating Availability/Installed Capacity of Hydro
Electric Stations/Units - India Others - India ...

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Power Grid , Government of India , Ministry of Power

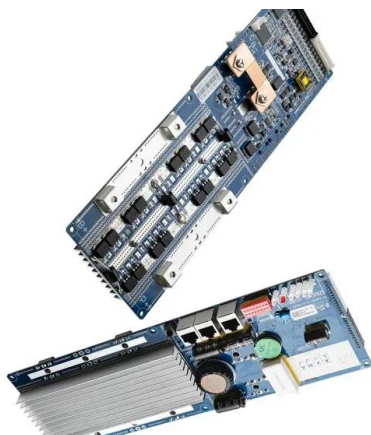
As of May 31, 2025, the company's transmission network spans approximately 1,80,239 ckm of Extra High Voltage (EHV) transmission lines and comprises 283 EHV AC & HVDC Sub ...

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How Many Electrical Substations are in Tamil Nadu, India?

There are 1,133 Electrical substations in Tamil Nadu, India. A random selection of cities, including Chennai and ???, features a substantial number of Electrical substations locations-- 130 in ...

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How Do Substations Work?

Because of this, many many substations include equipment for monitoring and controlling the power on the grid. Instrument transformers are ...

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Substations

Monthly updated data on AC and HVDC transformer capacity in the country across all voltage levels. This content is restricted.

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Substations

Category: Substations Utility-wise Transformation Capacity Addition August 19, 2025 , Substations, Utility-wise addition Monthly updated data on transformation capacity ...

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How many Electrical substations are in India in 2025

There are 21,490 Electrical substations in India as of August, 2025. The highest number of Electrical substations of India are in Maharashtra and Gujarat with 1,968 businesses and 1,663 ...

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How many substations are there in Kerala? - idswater

How many substations are there in Kerala? We have as many as 418 Substations spread across the state as on 01.12. 2019. Also the total length of our transmission network is ...

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Tata Power to install India's first-of-its-kind ...

Ground breaking ceremony held at company's Parel receiving station To install 10 more submersible substations by 2025 in its licenced area Tata Power, one of ...

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ITP :: India Transmission Portal

These are reported separately by ownership (central, state and private) and at different voltage levels (220 kV, 440 kV etc.). The graphs below present this data since January 2012 and track ...

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