

Nuclear & Thermal power plants

Nuclear power is obtained from energy stored in the nuclei of atoms of naturally occurring radioactive elements like uranium and thorium. These fuels undergo nuclear fission in nuclear reactors and emit power. The greatest producers of nuclear power are the USA and Europe. **In India, Rajasthan and Jharkhand** have large deposits of Uranium.

Tarapur Atomic Power Plant-1 (TAPS-1) was the first Nuclear power plant in India.

Thermal electricity is generated by using coal, petroleum and natural gas. The thermal power stations use non-renewable fossil fuels for generating electricity. There are over 310 thermal power plants in India.

The major hazard of nuclear power generation is the storage and disposal of spent or used fuels – the uranium still decaying into harmful subatomic particles (radiations). Improper nuclear-waste storage and disposal result in environmental contamination.

State-wise list of Thermal Power Stations & Nuclear Power Plants

SL No.	States	Thermal Power Station
1	Andhra Pradesh	(i) Simhadri Online Classroom Program Thermal Power Plant (ii) Sri Damodaram Sanjeevaiah Thermal Power Station
2	Assam	(i) Bongaigaon Thermal Power Plant
3	Arunachal Pradesh	(i) Kharsang Thermal Power Plant
4	Bihar	(i) Barauni Thermal Power Station (ii) Kahalgaon Online Classroom Program Thermal Power Station
5	Chhattisgarh	(i) Korba Online Classroom Program Thermal Power Plant (ii) Sipat Thermal Power Plant (iii) Bhilai Expansion Power Plant



		(iv) Hasdeo Thermal Power Station
6	Gujarat	(i) Mundra (TPP) (ii) Ukai Thermal Power Station (iii) Sikka Thermal Power Station (iv) Kakrapar Nuclear Power Plant (v) Akrimota Thermal Power Station
8	Haryana	(i) Deenbandhu Chhotu Ram Thermal Power Station (ii) Rajiv Gandhi Thermal Power Station
9	Himachal Pradesh	(i) Girinagar Hydel Project (ii) Binwa Hydel Project (iii) Rangtong Hydel Project (iv) Baner and Neugal Project
10	Jharkhand	(i) Patratu Thermal Power Station (ii) Bokaro Thermal Power Station (iii) Chandrapura Thermal Power Station (iv) Koderma Thermal Power Station
12	Karnataka	(i) Udupi Thermal Power Plant (ii) Bellary Thermal Power station (iii) Raichur Thermal Power Station
13	Kerala	(i) Brahmapuram Power Station (ii) Kayamkulam Power Station
14	Madhya Pradesh	(i) Vindhyachal Online Classroom Program Thermal Power Station (ii) Sant Singaji (TPP) (iii) Satpura Thermal Power Station (iv) Amarkantak Thermal Power Station



		(v) Sasan Ultra Mega Power Project
15	Maharashtra	(i) Tirora (TPP) (ii) Amravati (TPP) (iii) Chandrapur Online Classroom Program (TPP) (iv) Khaperkheda Thermal Power Station
16	Meghalaya	(i) Nongkhylllem Power House (Stage-iv)
20	Odisha	(i) Talcher Online Classroom Program Thermal Power Station (ii) Hirakud Captive Power Plant
21	Punjab	(i) Guru Gobind Singh Online Classroom Program Thermal Power Plant
22	Rajasthan	(i) Chhabra (TPP) (ii) Suratgarh Power Station
23	Sikkim	(i) Rangit Hydro Electric Power Project
24	Tamil Nadu	(i) Mettur Thermal Power Station (ii) Neyveli Thermal (iii) Tuticorin Thermal Power Station
25	Telangana	(i) Kakatiya Thermal Power plant (ii) Kothagudem Thermal Power Plant (iii) Ramagundam Thermal Power Plant (iv) Singareni Thermal Power Plant (v) Bhadrachalam Thermal Power Plant
26	Tripura	(i) Palatana Thermal Power Plant
27	Uttar Pradesh	(i) Rihand Thermal Power Station



		(ii) Singrauli Online Classroom Program Thermal Power Station (iii) Anpara Thermal Power Station (iv) Obra Thermal Power Station (v) Rosa (TPS) (vi) Panki (TPS)
28	Uttarakhand	(i) Chibro Power Plant (ii) Khodri Power Plant (iii) Chilla Power Plant
29	West Bengal	(i) Durgapur Thermal Power Station

List of Nuclear Power Plants in India 2020

1	State	Nuclear Power Station
2	Gujarat	(i) Kakrapar Nuclear power station
3	Haryana	(i) Gorakhpur Atomic Power Station
4	Karnataka	(i) Kaiga Nuclear power station
5	Maharashtra	(i) Tarapur Atomic power station (ii) Jaitapur Nuclear Power Project
6	Tamil Nadu	(i) Kundakulam Nuclear Power Plant
7	Uttar Pradesh	(i) Narora Atomic Power Station

