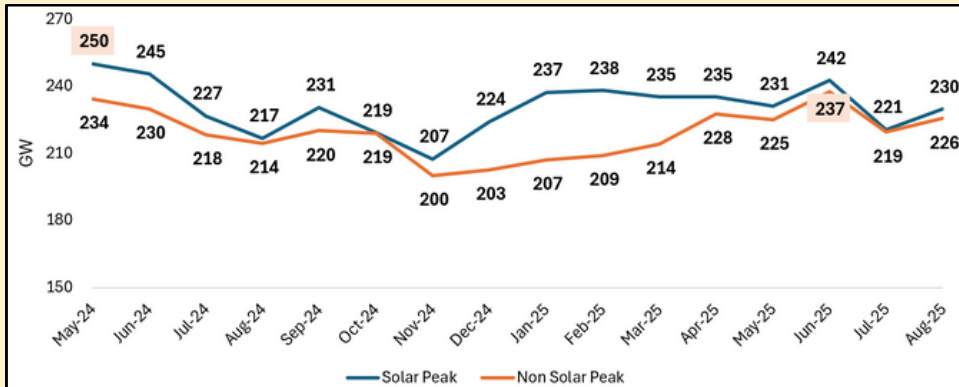


MONTHLY SNAPSHOT

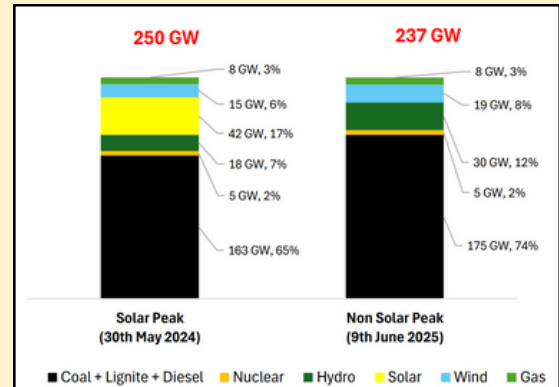
INDIA POWER SECTOR: AUGUST 2025

Figure 1: PEAK DEMAND MONTHLY TREND



Note: 1) Solar Peak (230 GW) on 7th August 2025 @15:35 hrs
 2) Non Solar Peak (226 GW) on 7th August 2025 @19:48hrs
Source: Grid India

Figure 2: Source-wise contribution in Peak Demand [EFFECTIVE CAPACITIES]



Note: Contribution mix at the maximum peak recorded in last 15 months with Solar Peak recorded on 30th May 2024 at 14:57 hours and Non-Solar Peak recorded on 9th June 2025 at 22:46 hours;
Source: Grid India

Table 1: INSTALLED CAPACITY (GW)

Source		2030 Target	Under Planning*	Under Construction	Aug-25	Y-o-Y Growth
Fossil Sources		277	51	35	244	0%
Thermal	Coal & Lignite	252	51	35	223	3%
	Diesel & Gas	25			21	-18%
Non-Fossil Sources		482	91	124	251	21%
Nuclear		15	7	7	9	7%
Hydro	Large	54	21	13	50	7%
	Small	5			5	1%
Solar	Ground Mounted Solar	293	46	74	94	36%
	Solar Rooftop				21	50%
	Hybrid Solar				3	26%
	Off-grid Solar/KUSUM				5	36%
Wind		100	17	30	53	12%
Other		15			12	6%
Total		759	142	159	496	10%
Pumped Storage Plants		19	5	12	7	45%
Battery Energy Storage System (GW/GWh)		41.65/208.25		15.83/ 51.11	-	-

Note: *Data extracted from Reply by MoP to Lok Sabha Unstarred Question No. 3163 dated 07/08/25
Source: Central Electricity Authority; Ministry of New and Renewable Energy; Optimal Generation Mix Report; Parliament Q&A

Table 2: MONTHLY GENERATION (BU)

Source		Aug-25	Y-o-Y Growth
Thermal		105	0.3% ↑
Nuclear		4	-25% ↓
Hydro	Large	24	9% ↑
	Small	0.8	-47% ↓
Solar		13	25% ↑
Wind		11	9% ↑
Other (Biomass, Bagasse)		0.4	-38% ↓
Total		157	2.2%

Source: Central Electricity Authority;
Note: Generation through Renewable Energy sources is prepared from Cumulative Daily generation reports of August 2025 which does not capture SHP separately. Hence, SHP generation has been provisionally kept in the same ratio as of 'SHP: Others' as per August 2024.

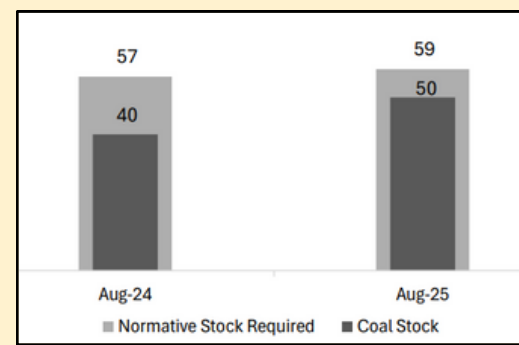
Table 3: TRANSMISSION INFRASTRUCTURE

Parameter	NEP Target (2032)	Under Planning [^]	Under Construction [*]	Aug-25	Y-o-Y Growth
Total Transmission Line Capacity (≥ 220 kV) ('000 ckm)	648	77	75	496	2%
ISTS	295	43	36	215	2%
InSTS	354	33	39	281	2%
Transformation capacity ('000 MVA)	2,412	530	506	1375	9%
ISTS	1,281	348	354	579	12%
InSTS	1,131	182	152	796	7%
Inter-regional Trans. Capacity (GW)	168			120	1%

Note: [^]Considering capacity to be added during FY 2027-32 as under planning stage; ^{*}Considering capacity to be added during FY 2022-27 as under construction stage

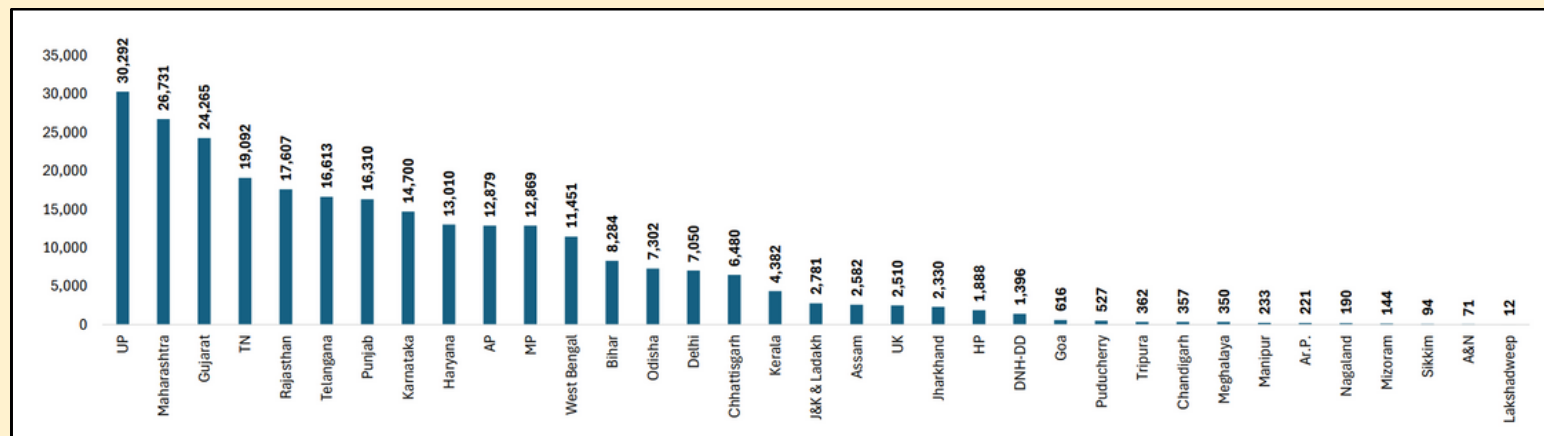
Source: NEP: National Electricity Plan (Volume II) Transmission; Central Electricity Authority

Figure 3: COAL STOCK (million metric tonnes)



Source: National Power Portal

Figure 4: STATE-WISE PEAK DEMAND (MW) IN AUGUST 2025



Source: Central Electricity Authority

KEY HIGHLIGHTS

- Unit-4 (350 MW Coal Based Power Plant) of Meenakshi Energy Ltd. (Andhra Pradesh) and 5135 MW of Non-Conventional capacity, mainly Solar 4100 MW, was added in the Indian Grid in the month of August 2025.
- Solar PV module manufacturing capacity of India reached 100 GW under the Approved List of Models and Manufacturers (ALMM).
- Govt. of India has approved investment of Rs. 8146.21 Cr. for construction of 700 MW (4 x 175 MW) Tato-II Hydro Electric Project in Arunachal Pradesh.
- MoP has issued dissolved Uniform Renewable Energy Tariff (URET) Mechanism in view of the substantial renewable energy capacity awaiting PSA signing and to expedite the deployment of Renewable Energy.

[All data was last accessed on 19th September 2025]



POWER FOUNDATION OF INDIA

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