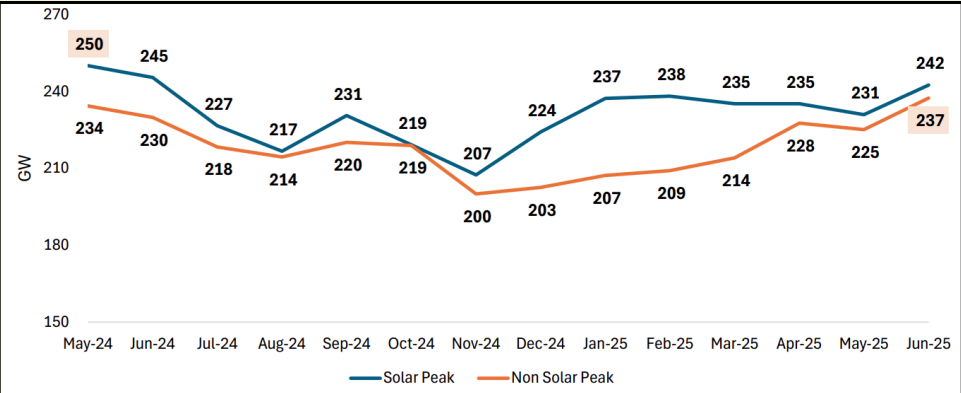


MONTHLY SNAPSHOT

INDIA POWER SECTOR: JUNE 2025

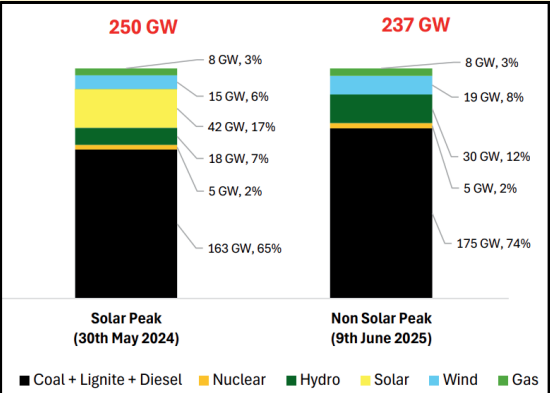


Figure 1: PEAK DEMAND MONTHLY TREND



Note: 1) Solar Peak (242 GW) on 12th June 2025 @ 15:49 hrs
2) Non Solar Peak (237 GW) on 9th June 2025 @ 22:46 hrs
Source: Grid India

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



Note: Contribution mix at the maximum peak recorded in last 14 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	Jun-25	Y-o-Y Growth
Fossil Sources		277	46	35	242	0%
Thermal	Coal & Lignite	252	46	35	221	2%
	Diesel & Gas	25			21	-18%
Non-Fossil Sources		482	112	163	243	19%
Nuclear		15	7	7	9	7%
Hydro	Large	54	21	13	49	5%
	Small	5			5	2%
Solar	Ground Mounted Solar	293	84	85	89	34%
	Solar Rooftop				19	46%
	Hybrid Solar				3	18%
	Off-grid Solar/KUSUM				5	47%
Wind		100		28	52	11%
Other		15		30	12	6%
Total		759	158	197	485	-25%
Pumped Storage Plants		19	4	9	6	31%
Battery Energy Storage System (GW/GWh)		41.65/208.25		14.97/54.80	-	-

Note: Latest figures, wherever available, have been added for Under Planning and Under Construction
Source: Central Electricity Authority; Ministry of New and Renewable Energy; Optimal Generation Mix Report; Parliament Q&A

Table 2: MONTHLY GENERATION (BU)

Source		Jun-25	Y-o-Y Growth
Thermal		109	-10% ↓
Nuclear		4	7% ↑
Hydro	Large	17	18% ↑
	Small	0.8	1% ↑
Solar		13	9% ↑
Wind		13	32% ↑
Other (Biomass, Bagasse)		1.1	54% ↑
Total		158	-2.8% ↓

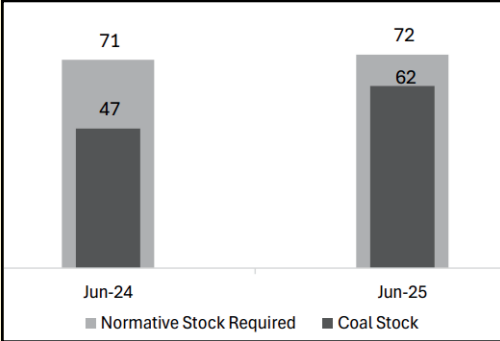
Source: Central Electricity Authority; Ministry of New and Renewable Energy

Table 3: TRANSMISSION INFRASTRUCTURE

Parameter		NEP Target (2032)	Under Planning^	Under Construction*	Jun-25	Y-o-Y Growth
Total Transmission Line Capacity (≥ 220 kV) ('000 ckm)		648	77	76	495	2%
	ISTS	295	43	37	215	2%
	InSTS	354	33	39	281	2%
Transformation capacity ('000 MVA)		2,412	530	522	1360	8%
	ISTS	1,281	348	365	568	9%
	InSTS	1,131	182	157	791	7%
Inter-regional Trans. Capacity (GW)		168			120	1%

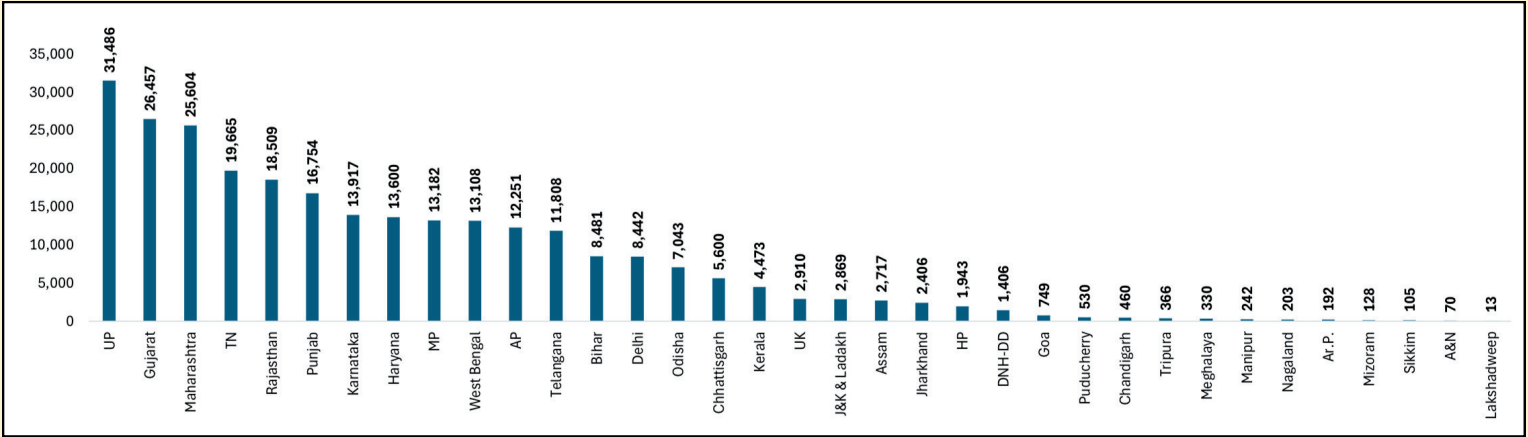
^Considering capacity to be added during FY 2027-32 as under planning stage; *Considering capacity to be added during FY 2022-27 as under construction stage
Source: NEP: National Electricity Plan (Volume II) Transmission; Central Electricity Authority

Figure 3: COAL STOCK (million metric tonnes)



Source: National Power Portal

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



Source: Central Electricity Authority

KEY HIGHLIGHTS

- 1.THDC India Ltd. successfully commissioned 2 units of 250 MW each out of 1000 MW Pumped Storage Plant at Tehri, Uttarakhand. It is India's first Variable Speed Pumped Storage Plant which will help in India’s ability to manage intermittent renewable energy.
2. Ministry of Power issued Viability Gap Funding scheme for development of Battery Energy Storage Solutions (BESS) which targets development of 30 GWh BESS capacity with financial support of Rs. 5400 Crore.
3. Electricity Regulatory Commission of Maharashtra had invited stakeholders’ responses w.r.t. Torrent Power’s Petition for grant of parallel distribution licences in various areas of Maharashtra.

[All data was last accessed on 21st July 2025]



POWER FOUNDATION OF INDIA

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