

GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1913
ANSWERED ON 17.03.2025

GAP IN DEMAND AND SUPPLY OF POWER

1913 SHRI DHANANJAY BHIMRAO MAHADIK:

Will the Minister of **POWER** be pleased to state:

- (a) the peak power demand recorded at the national level during the last three years;
- (b) the corresponding supply figures and the shortfall, if any;
- (c) the details of maximum demand and supply gap for power in each district of the State of Maharashtra along with the details of month by month breakdown of the supply gap during the last three years, year-wise; and
- (d) the measures taken/proposed to be taken to address the demand and supply gap in each district of Maharashtra?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b): The details of All India power supply position, in terms of Energy and Peak Demand, during the last three years and current year (upto February 2025) are given at **Annexure-I**.

(c) & (d) : The year-wise and month-wise details of power supply position, in terms of Energy and Peak Demand, during the last three years and current year (upto February 2025) in the State of Maharashtra are given at **Annexure-II and Annexure-III** respectively.

These details indicate that despite consistent growth in Energy Requirement and Peak Demand in Maharashtra, there has been significant increase in the availability of power thereby the gap between the demand and availability of power in Maharashtra has declined to almost 'NIL' both in terms of Energy and Peak in the current year 2024-25 (upto February, 2025).

Electricity being a concurrent subject, the supply and distribution of electricity to the various categories of consumers/ areas/ districts in a State/UT is within the purview of the respective State Government/Power Utility. The Central Government supplements the efforts of the State Governments by establishing power plants in Central Sector through Central Public Sector Undertakings (CPSUs) and allocating power from them to the various States / UTs.

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Further, Government of India has taken the following steps to ensure adequate availability of power in the country for meeting the growing power demand of the States/UTs including Maharashtra:

- (i) Present installed generation capacity of the country is 466 GW. Government of India has addressed the critical issue of power deficiency by adding 234 GW of generation capacity since April, 2014 transforming the country from power deficit to power sufficient. In order to augment the power generation capacity, the Government of India has initiated following capacity addition programme:
 - (A) Government of India has proposed in November 2023 for setting up of an additional minimum 80,000 MW coal based capacity by 2031-32. Against this target, coal based capacity of 9,350 MW has already been commissioned in 2023-24 & 2024-25. 29,900 MW Thermal Capacity is under construction and contracts for 22,640 MW thermal capacity have been awarded in FY 2024-25. Further, 33,580 MW of coal and lignite based candidate capacity has been identified which is at various stages of planning in the country.
 - (B) 13,997.5 MW of Hydro Electric Projects and about 8,000 MW Pumped Storage Projects (PSPs) are under construction. Further, 24,225.5 MW of Hydro Electric Projects and 50,760 MW of PSPs are under various stage of planning and targeted to be completed by 2031-32.
 - (C) 7,300 MW of Nuclear Capacity is under construction and targeted to be completed by 2029-30. 7,000 MW of Nuclear Capacity is under various stages of planning and approval.
 - (D) 1,53,920 MW Renewable Capacity including 84,310 MW of Solar, 28,280 MW of Wind and 40,890 MW Hybrid power is under construction while 70,210 MW of Renewable Capacity including 46,670 MW of Solar, 600 MW of Wind and 22,940 MW Hybrid Power is at various stages of planning and targeted to be completed by 2029-30.
 - (E) 13,389 MW/ 56,457 MWh of energy storage system (3,180 MW/19,080 MWh Pumped Storage Projects and 10,209 MW/37,377 MWh Battery Energy Storage System) are currently under various stages of construction/bidding
- (ii) A robust national grid has been established to facilitate the transfer of power from power surplus regions to power deficit regions. Addition of 2,01,088 circuit kilometer (ckm) of Transmission lines, 7,78,017 MVA of Transformation capacity and 82,790 MW of Inter-Regional capacity has been done since 2014 with capability of transferring 1,18,740 MW from one corner of the country to another. The capacity of National Grid is being expanded on a continuous basis commensurate with the growth in electricity generation and electricity demand.
- (iii) All the GENCOs including IPPs and Central generating stations have been advised to generate and maintain full availability on daily basis excluding the period of planned maintenance or forced outage.
- (iv) Hydro based generation is being scheduled in a manner so as to conserve water for meeting demand during peak period.

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- (v) Planned maintenance of generating units is being minimized during period of high demand
- (vi) Steady supply of coal to all the thermal power plants is being ensured to prevent fuel shortages.
- (vii) Gas-based power plants of NTPC as well as other generators are being scheduled during high power demand period
- (viii) Directions under Section 11 of Electricity Act have been issued to imported coal based plants to operate and generate power to their full capacity.
- (ix) New power generation capacity is being monitored closely for timely addition.
- (x) Government has facilitated power trading through regulatory framework whereby states with surplus generation can sell power to states which are in deficit through three (3) power exchanges viz. Indian Energy Exchange (IEX), Power Exchange India Ltd (PXIL) and Hindustan Power Exchange Ltd.
- (xi) Electricity market has been reformed by adding the Real Time Market (RTM), Green Day Ahead Market (GDAM), Green Term Ahead Market (GTAM), High Price Day Ahead Market (HPDAM) in Power exchange. Also, there is DEEP portal (Discovery of Efficiency Electricity Price) for e-bidding and e-Reverse for procurement of short-Term power by DISCOMs

ANNEXURE-I

ANNEXURE REFERRED IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1913 ANSWERED IN THE RAJYA SABHA ON 17.03.2025

The details of All India power supply position, in terms of Energy and Peak, during the last three years and current year (upto February 2025) :

Year	ENERGY				PEAK			
	Energy Requirement	Energy Supplied	Energy Not Supplied		Peak Demand	Peak Met	Demand Not Met	
	(MU)	(MU)	(MU)	%	(MW)	(MW)	(MW)	(%)
2021-22	13,79,812	13,74,024	5,787	0.4	2,03,014	2,00,539	2,475	1.2
2022-23	15,13,497	15,05,914	7,583	0.5	2,15,888	2,07,231	8,657	4.0
2023-24	16,26,132	16,22,020	4,112	0.3	2,43,271	2,39,931	3,340	1.4
2024-25* (upto February, 2025)	15,47,785	15,46,229	1,555	0.1	2,49,856	2,49,854	2	0.0

** Provisional figures.*

ANNEXURE-II

ANNEXURE REFERRED IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 1913 ANSWERED IN THE RAJYA SABHA ON 17.03.2025

The details of power supply position, in terms of Energy and Peak, during the last three years and current year (upto February 2025) in the State of Maharashtra:

Year	ENERGY				PEAK			
	Energy Requirement	Energy Supplied	Energy Not Supplied		Peak Demand	Peak Met	Demand Not Met	
	(MU)	(MU)	(MU)	%	(MW)	(MW)	(MW)	(%)
2021-22	1,72,823	1,72,809	14	0.0	28,075	28,016	59	0.2
2022-23	1,87,309	1,87,196	112	0.1	30,935	28,846	2,089	6.8
2023-24	2,07,108	2,06,931	176	0.1	31,178	27,996	3,182	10.2
2024-25* (upto February,2025)	1,83,137	1,83,078	59	0.0	30,151	30,151	0	0.0

* *Provisional figures.*

**ANNEXURE REFERRED IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 1913
ANSWERED IN THE RAJYA SABHA ON 17.03.2025**

Month-wise details of power supply position, in terms of Energy and Peak, of State of Maharashtra during the last three years and current year 2024-25 (upto February 2025):

Month	ENERGY				PEAK			
	Energy Requirement	Energy Supplied	Energy not Supplied		Peak Demand	Peak Met	Demand not Met	
	(MU)	(MU)	(MU)	(%)	(MW)	(MW)	(MW)	(%)
Apr-21	15,636	15,636	0	0.0	25,653	25,644	9	0.0
May-21	14,465	14,465	0	0.0	23,746	23,721	25	0.1
Jun-21	13,606	13,606	0	0.0	21,141	21,141	0	0.0
Jul-21	13,466	13,466	0	0.0	24,097	24,089	8	0.0
Aug-21	14,311	14,311	0	0.0	24,428	24,428	0	0.0
Sep-21	12,704	12,704	0	0.0	21,502	21,502	0	0.0
Oct-21	13,853	13,853	0	0.0	22,892	22,892	0	0.0
Nov-21	14,172	14,172	0	0.0	25,215	25,215	0	0.0
Dec-21	14,148	14,148	0	0.0	24,429	24,420	9	0.0
Jan-22	14,616	14,616	0	0.0	25,560	25,542	18	0.1
Feb-22	14,385	14,377	9	0.1	26,316	26,307	9	0.0
Mar-22	17,459	17,454	5	0.0	28,075	28,016	59	0.2
Apr-22	17,827	17,718	109	0.6	30,935	28,846	2,089	6.8
May-22	17,644	17,644	0	0.0	27,969	27,969	0	0.0
Jun-22	15,516	15,516	0	0.0	26,972	26,972	0	0.0
Jul-22	13,691	13,690	0	0.0	22,540	22,540	0	0.0
Aug-22	14,004	14,004	0	0.0	24,186	24,178	8	0.0
Sep-22	13,428	13,427	0	0.0	22,574	22,550	24	0.1
Oct-22	13,366	13,366	0	0.0	22,513	22,513	0	0.0
Nov-22	15,112	15,112	0	0.0	25,936	25,927	9	0.0
Dec-22	16,642	16,642	0	0.0	27,234	27,234	0	0.0
Jan-23	16,660	16,659	0	0.0	27,860	27,860	0	0.0
Feb-23	15,832	15,832	0	0.0	28,519	28,499	20	0.1
Mar-23	17,587	17,587	0	0.0	28,576	28,566	10	0.0
Apr-23	17,524	17,523	1	0.0	28,576	28,566	10	0.0
May-23	18,416	18,402	14	0.1	28,160	28,121	39	0.1
Jun-23	17,547	17,523	24	0.1	28,546	28,546	0	0.0
Jul-23	16,399	16,395	4	0.0	24,544	24,535	9	0.0
Aug-23	16,972	16,865	107	0.6	31,178	27,996	3,182	10.2
Sep-23	15,841	15,819	22	0.1	27,678	27,678	0	0.0
Oct-23	18,056	18,051	5	0.0	28,206	28,206	0	0.0
Nov-23	16,754	16,754	0	0.0	28,386	28,356	30	0.1
Dec-23	16,236	16,236	0	0.0	27,755	27,755	0	0.0
Jan-24	17,416	17,414	2	0.0	28,651	28,651	0	0.0
Feb-24	17,184	17,184	0	0.0	28,969	28,969	0	0.0
Mar-24	18,766	18,765	1	0.0	28,795	28,735	60	0.2
Apr-24	18,605	18,603	2	0.0	28,924	28,924	0	0.0
May-24	18,105	18,105	0	0.0	28,452	28,452	0	0.0
Jun-24	16,703	16,700	3	0.0	28,310	28,310	0	0.0
Jul-24	14,874	14,874	0	0.0	24,174	24,174	0	0.0
Aug-24	15,056	15,045	11	0.1	28,074	25,855	2,219	7.9
Sep-24	15,233	15,192	41	0.3	30,049	26,543	3,506	11.7
Oct-24	16,259	16,258	1	0.0	26,632	26,613	19	0.1
Nov-24	16,094	16,094	0	0.0	27,845	27,845	0	0.0
Dec-24	16,963	16,963	0	0.0	28,632	28,632	0	0.0
Jan-25	17,649	17,648	1	0.0	29,836	29,826	10	0.0
Feb-25*	17,596	17,596	0	0.0	30,151	30,151	0	0.0

* Provisional
