

GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1752
ANSWERED ON 04.08.2025

PRODUCTION OF TOTAL QUANTUM OF ENERGY IN THE COUNTRY

1752 Dr. M. Thambidurai:

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

- (a) the total quantum of energy produced in the country through various sources of energy over the past five years including the current year;
- (b) whether it is a fact that this production is disproportionate to the demand of energy in the country;
- (c) if so, the details thereof;
- (d) the details of the total distribution of energy through various sources of energy across the country during the said period;
- (e) whether Government distributes/sales the produced energy to other countries; and
- (f) if so, the details of the total value of exports made to other countries in terms of both renewable and non-renewable energy?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a): The source-wise details of total quantum of electricity generated in the country during the past five (5) years and current year 2025-26 (upto June, 2025) are given at **Annexure –I**.

(b) to (d): Power supply position in the country in terms of Energy during the last five years and current year (upto June, 2025) is given at **Annexure-II**.

State/UT-wise detail of Power Supply Position in terms of Energy for the last five years and the current year 2025-26 (upto June, 2025) are given at **Annexure-III**.

These details indicate that energy generation is commensurate to the energy requirement in the country. There is only a marginal gap between energy requirement and energy supplied which is generally on account of constraints in the State transmission/distribution network.

(e) to (f): India has cross border interconnections with Bhutan, Bangladesh, Nepal and Myanmar. The import/export of electricity with other countries is governed by the “Guidelines for Import/ Export (Cross Border) of Electricity 2018” issued by Government of India in December, 2018.

The details of total energy exported to the neighbouring countries from FY 2020-21 to FY 2025-26 (till May 2025) are given at **Annexure- IV**.

The Import/Export of Electricity is done purely on commercial terms by buying and selling entities, therefore, no information is available regarding value of total exports to other countries and earnings

ANNEXURE-I

ANNEXURE REFERRED IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1752 ANSWERED IN THE RAJYA SABHA ON 04.08.2025

Source-wise details of total quantum of electricity generated in the country from 2020-21 to 2022-23:

Fuel		2020-21		2021-22		2022-23	
		Generation	% of Total Generation	Generation	% of Total Generation	Generation	% of Total Generation
FOSSIL FUEL	COAL	9,50,937.55	68.82	10,41,487.43	69.81	11,45,907.58	70.54
	DIESEL	126.31	0.01	117.24	0.01	229.71	0.01
	LIGNITE	30,505.68	2.21	37,094.04	2.49	36,188.34	2.23
	NAPHTHA	101.41	0.01	0.00	0.00	0.83	0.00
	NATURAL GAS	50,842.59	3.68	36,015.77	2.41	23,884.21	1.47
FOSSIL FUEL Total		10,32,513.54	74.72	11,14,714.48	74.72	12,06,210.67	74.25
NON-FOSSIL FUEL	NUCLEAR	43,029.08	3.11	47,112.06	3.16	45,861.09	2.82
	HYDRO	1,50,299.52	10.88	1,51,627.33	10.16	1,62,098.77	9.98
	Bhutan Import	8,765.50	0.63	7,493.20	0.50	6,742.40	0.42
	Renewable (excluding Large Hydro)	1,47,247.51	10.66	1,70,912.30	11.46	2,03,552.68	12.53
NON-FOSSIL FUEL Total		3,49,341.61	25.28	3,77,144.89	25.28	4,18,254.94	25.75
GRAND TOTAL		13,81,855.15	100.00	14,91,859.37	100.00	16,24,465.61	100.00

The source-wise details of total quantum of electricity generated in the country during 2023-24, 2024-25 and current year 2025-26 (upto June, 2025):

Fuel		2023-24		2024-25		2025-26 (Upto June, 2025)	
		Generation	% of Total Generation	Generation	% of Total Generation	Generation	% of Total Generation
FOSSIL FUEL	COAL	12,60,902.62	72.5	12,98,872.2	70.99	3,25,685.99	68.11
	DIESEL	400.58	0.02	442.65	0.02	114.63	0.02
	LIGNITE	33,949.79	1.95	32,994.77	1.8	7,390.49	1.55
	NAPTHA	0.03	0	0	0	0	0
	NATURAL GAS	31,295.91	1.8	31,580.05	1.73	8,786.98	1.84
FOSSIL FUEL Total		13,26,548.93	76.27	13,63,889.67	74.54	3,41,978.09	71.52
NON-FOSSIL FUEL	NUCLEAR	47,937.41	2.76	56,680.83	3.1	14,586.54	3.05
	HYDRO	1,34,053.92	7.71	1,48,633.98	8.12	39,658.25	8.29
	Bhutan Import	4,716.1	0.27	5,484.18	0.3	1,860.72	0.39
	Renewable (excluding Large Hydro)	2,25,834.83	12.99	2,55,009.19	13.94	80,111.71	16.75
NON-FOSSIL FUEL Total		4,12,542.26	23.73	4,65,808.18	25.46	13,6217.22	28.48
GRAND TOTAL		17,39,091.19	100.00	18,29,697.85	100.00	4,78,195.31	100.00

ANNEXURE REFERRED IN REPLY TO PARTS (b) TO (d) OF UNSTARRED QUESTION NO. 1752 ANSWERED IN THE RAJYA SABHA ON 04.08.2025

Power supply position in the country in terms of Energy during the last five years and current year (upto June, 2025).

Financial Year (FY)	Energy [Million Units (MU)]			
	Energy Requirement	Energy Supplied	Energy not Supplied	
	(MU)	(MU)	(MU)	(%)
2020-21	12,75,534	12,70,663	4,871	0.4
2021-22	13,79,812	13,74,024	5,787	0.4
2022-23	15,13,497	15,05,914	7,583	0.5
2023-24	16,26,132	16,22,020	4,112	0.3
2024-25	16,93,959	16,92,369	1,590	0.1
2025-26 (upto June, 2025)	4,45,197	4,45,040	157	0.0

ANNEXURE REFERRED IN REPLY TO PARTS (b) TO (d) OF UNSTARRED QUESTION NO. 1752 ANSWERED IN THE RAJYA SABHA ON 04.08.2025

The State-wise detail of Power Supply Position in the country in terms of Energy for the year 2020-21 and 2021-22:

State/ System / Region	April, 2020 - March, 2021				April, 2021 - March, 2022			
	Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied	
	(MU)	(MU)	(MU)	(%)	(MU)	(MU)	(MU)	(%)
Chandigarh	1,523	1,523	0	0	1,606	1,606	0	0
Delhi	29,560	29,555	4	0	31,128	31,122	6	0
Haryana	53,161	53,108	53	0.1	55,499	55,209	290	0.5
Himachal Pradesh	10,186	10,130	56	0.5	12,115	12,088	27	0.2
Jammu & Kashmir	19,773	17,222	2,551	12.9	19,957	18,434	1,524	7.6
Punjab	58,445	58,377	67	0.1	62,846	62,411	436	0.7
Rajasthan	85,311	85,205	106	0.1	89,814	89,310	504	0.6
Uttar Pradesh	1,24,367	1,23,383	984	0.8	1,29,448	1,28,310	1,138	0.9
Uttarakhand	13,827	13,818	8	0.1	15,521	15,426	94	0.6
Northern Region	3,96,151	3,92,323	3,829	1	4,17,934	4,13,915	4,019	1
Chhattisgarh	30,472	30,449	22	0.1	31,908	31,872	35	0.1
Gujarat	1,11,622	1,11,622	0	0	1,23,953	1,23,666	287	0.2
Madhya Pradesh	83,437	83,437	0	0	86,501	86,455	46	0.1
Maharashtra	1,50,679	1,50,663	16	0	1,72,823	1,72,809	14	0
Daman & Diu	2,223	2,223	0	0	2,594	2,594	0	0
Dadra & Nagar Haveli	5,497	5,497	0	0	6,839	6,839	0	0
Goa	4,083	4,083	0	0	4,448	4,448	0	0
Western Region	3,88,013	3,87,975	38	0	4,29,065	4,28,683	383	0.1
Andhra Pradesh	62,080	62,076	4	0	68,413	68,219	194	0.3
Telangana	66,998	66,994	4	0	70,539	70,523	16	0
Karnataka	68,851	68,831	19	0	72,437	72,417	20	0
Kerala	25,118	25,102	16	0.1	26,579	26,570	9	0
Tamil Nadu	1,01,194	1,01,189	5	0	1,09,816	1,09,798	18	0
Puducherry	2,644	2,644	0	0	2,894	2,893	1	0
Lakshadweep	56	56	0	0	56	56	0	0
Southern Region	3,26,885	3,26,836	48	0	3,50,678	3,50,421	258	0.1
Bihar	34,171	34,018	153	0.4	36,216	35,761	455	1.3
DVC	21,368	21,368	0	0	23,741	23,736	4	0
Jharkhand	9,953	9,675	278	2.8	11,148	10,590	558	5
Odisha	29,848	29,848	0	0	38,339	38,332	7	0
West Bengal	51,644	51,543	100	0.2	54,001	53,945	57	0.1
Sikkim	546	546	0	0	610	609	0	0
Andaman- Nicobar	346	323	23	6.7	335	327	8	2.3
Eastern Region	1,47,530	1,46,999	531	0.4	1,64,054	1,62,973	1,081	0.7
Arunachal Pradesh	719	714	5	0.7	875	874	1	0.1
Assam	10,192	9,815	377	3.7	10,844	10,825	19	0.2
Manipur	974	969	5	0.5	1,019	1,018	1	0.1
Meghalaya	2,031	2,005	26	1.3	2,256	2,243	13	0.6
Mizoram	728	723	4	0.6	656	644	12	1.8
Nagaland	826	822	4	0.5	852	851	1	0.1
Tripura	1,484	1,481	3	0.2	1,578	1,578	0	0
North-Eastern Region	16,955	16,531	424	2.5	18,079	18,033	47	0.3
All India	12,75,534	12,70,663	4,871	0.4	13,79,812	13,74,024	5,787	0.4

The State-wise detail of Power Supply Position in the country in terms of Energy for the year 2022-23 and 2023-24.

State/ System / Region	April, 2022 - March, 2023				April, 2023 - March, 2024			
	Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied	
	(MU)	(MU)	(MU)	(%)	(MU)	(MU)	(MU)	(%)
Chandigarh	1,788	1,788	0	0	1,789	1,789	0	0
Delhi	35,143	35,133	10	0	35,501	35,496	5	0
Haryana	61,451	60,945	506	0.8	63,983	63,636	348	0.5
Himachal Pradesh	12,649	12,542	107	0.8	12,805	12,767	38	0.3
Jammu & Kashmir	19,639	19,322	317	1.6	20,040	19,763	277	1.4
Punjab	69,522	69,220	302	0.4	69,533	69,528	5	0
Rajasthan	1,01,801	1,00,057	1,745	1.7	1,07,422	1,06,806	616	0.6
Uttar Pradesh	1,44,251	1,43,050	1,201	0.8	1,48,791	1,48,287	504	0.3
Uttarakhand	15,647	15,386	261	1.7	15,644	15,532	112	0.7
Northern Region	4,63,088	4,58,640	4,449	1	4,76,852	4,74,946	1,906	0.4
Chhattisgarh	37,446	37,374	72	0.2	39,930	39,872	58	0.1
Gujarat	1,39,043	1,38,999	44	0	1,45,768	1,45,740	28	0
Madhya Pradesh	92,683	92,325	358	0.4	99,301	99,150	151	0.2
Maharashtra	1,87,309	1,87,197	111	0.1	2,07,108	2,06,931	176	0.1
Dadra & Nagar Haveli and Daman & Diu	10,018	10,018	0	0	10,164	10,164	0	0
Goa	4,669	4,669	0	0	5,111	5,111	0	0
Western Region	4,77,393	4,76,808	586	0.1	5,17,714	5,17,301	413	0.1
Andhra Pradesh	72,302	71,893	410	0.6	80,209	80,151	57	0.1
Telangana	77,832	77,799	34	0	84,623	84,613	9	0
Karnataka	75,688	75,663	26	0	94,088	93,934	154	0.2
Kerala	27,747	27,726	21	0.1	30,943	30,938	5	0
Tamil Nadu	1,14,798	1,14,722	77	0.1	1,26,163	1,26,151	12	0
Puducherry	3,051	3,050	1	0	3,456	3,455	1	0
Lakshadweep	64	64	0	0	64	64	0	0
Southern Region	3,71,467	3,70,900	567	0.2	4,19,531	4,19,293	238	0.1
Bihar	39,545	38,762	783	2	41,514	40,918	596	1.4
DVC	26,339	26,330	9	0	26,560	26,552	8	0
Jharkhand	13,278	12,288	990	7.5	14,408	13,858	550	3.8
Odisha	42,631	42,584	47	0.1	41,358	41,333	25	0.1
West Bengal	60,348	60,274	74	0.1	67,576	67,490	86	0.1
Sikkim	587	587	0	0	544	543	0	0
Andaman-Nicobar	348	348	0	0.12914	386	374	12	3.18562
Eastern Region	1,82,791	1,80,888	1,903	1	1,92,013	1,90,747	1,266	0.7
Arunachal Pradesh	915	892	24	2.6	1,014	1,014	0	0
Assam	11,465	11,465	0	0	12,445	12,341	104	0.8
Manipur	1,014	1,014	0	0	1,023	1,008	15	1.5
Meghalaya	2,237	2,237	0	0	2,236	2,066	170	7.6
Mizoram	645	645	0	0	684	684	0	0
Nagaland	926	873	54	5.8	921	921	0	0
Tripura	1,547	1,547	0	0	1,691	1,691	0	0
North-Eastern Region	18,758	18,680	78	0.4	20,022	19,733	289	1.4
All India	15,13,497	15,05,914	7,583	0.5	16,26,132	16,22,020	4,112	0.3

The State-wise detail of actual Power Supply Position in the country in terms of Energy for the years 2024-25 and the current year 2025-26 (upto June, 2025).

State/ System / Region	April, 2024 - March, 2025				April, 2025 - June, 2025			
	Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied	
	(MU)	(MU)	(MU)	(%)	(MU)	(MU)	(MU)	(%)
Chandigarh	1,952	1,952	0	0	555	555	0	0
Delhi	38,255	38,243	12	0	11,303	11,299	4	0
Haryana	70,149	70,120	30	0	18,816	18,757	59	0.3
Himachal Pradesh	13,566	13,526	40	0.3	3,387	3,375	11	0.3
Jammu & Kashmir	20,374	20,283	90	0.4	4,853	4,847	6	0.1
Punjab	77,423	77,423	0	0	20,885	20,860	25	0.1
Rajasthan	1,13,833	1,13,529	304	0.3	28,036	28,036	0	0
Uttar Pradesh	1,65,090	1,64,786	304	0.2	46,028	46,022	6	0
Uttarakhand	16,770	16,727	43	0.3	4,426	4,417	10	0.2
Northern Region	5,18,869	5,17,917	952	0.2	1,38,697	1,38,576	121	0.1
Chhattisgarh	43,208	43,180	28	0.1	11,474	11,472	2	0
Gujarat	1,51,878	1,51,875	3	0	41,752	41,752	0	0
Madhya Pradesh	1,04,445	1,04,312	133	0.1	25,168	25,166	2	0
Maharashtra	2,01,816	2,01,757	59	0	52,395	52,393	1	0
Dadra & Nagar Haveli and Daman & Diu	10,852	10,852	0	0	2,845	2,845	0	0
Goa	5,411	5,411	0	0	1,486	1,486	0	0
Western Region	5,28,924	5,28,701	223	0	1,38,472	1,38,466	6	0
Andhra Pradesh	79,028	79,025	3	0	20,471	20,471	0	0
Telangana	88,262	88,258	4	0	19,690	19,690	0	0
Karnataka	92,450	92,446	4	0	22,945	22,945	0	0
Kerala	31,624	31,616	8	0	8,015	8,015	0	0
Tamil Nadu	1,30,413	1,30,408	5	0	34,817	34,817	0	0
Puducherry	3,549	3,549	0	0	948	946	2	0.2
Lakshadweep	68	68	0	0	20	20	0	0
Southern Region	4,25,373	4,25,349	24	0	1,06,899	1,06,897	2	0
Bihar	44,393	44,217	176	0.4	12,716	12,713	4	0
DVC	25,891	25,888	3	0	6,368	6,367	1	0
Jharkhand	15,203	15,126	77	0.5	3,931	3,930	1	0
Odisha	42,882	42,858	24	0.1	11,830	11,828	2	0
West Bengal	71,180	71,085	95	0.1	20,645	20,626	18	0.1
Sikkim	574	574	0	0	128	128	0	0
Andaman-Nicobar	425	413	12	2.9	107	104	3	2.8
Eastern Region	2,00,180	1,99,806	374	0.2	55,637	55,611	26	0
Arunachal Pradesh	1,050	1,050	0	0	283	283	0	0
Assam	12,843	12,837	6	0	3,506	3,506	0	0
Manipur	1,079	1,068	10	0.9	274	272	2	0.9
Meghalaya	2,046	2,046	0	0	494	494	0	0
Mizoram	709	709	0	0	177	177	0	0
Nagaland	938	938	0	0	243	243	0	0
Tripura	1,939	1,939	0	0	512	512	0	0
North-Eastern Region	20,613	20,596	16	0.1	5,492	5,490	2	0
All India	16,93,959	16,92,369	1,590	0.1	4,45,197	4,45,040	157	0

ANNEXURE-IV

ANNEXURE REFERRED IN REPLY TO PARTS (e) & (f) OF UNSTARRED QUESTION NO. 1752 ANSWERED IN THE RAJYA SABHA ON 04.08.2025

The details of total energy exported to the neighbouring countries from FY 2020-21 to FY 2025-26 (till May 2025).

(All figures are in Million Units)

Year	Nepal	Bangladesh	Myanmar	Bhutan
2020-21	1,870	7,555	9.24	219
2021-22	2,127	7,327	8.81	322
2022-23	1,552	8,581	9.8	522
2023-24	1,850	8,394	8.78	1,868
2024-25	1,686	8,084	9.08	1,764
2025-26	581	1,386	1.44	295
