

**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.5402  
ANSWERED ON 03.04.2025**

**QUANTUM OF ENERGY PRODUCTION**

**†5402. SHRI SANJAY HARIBHAU JADHAV:**

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

- (a) the total quantum of energy produced across the country through various sources of energy during the last three years and the current year;**
- (b) whether this production is proportionate to the demand, if not, the reasons therefor;**
- (c) the details of the total distribution of energy through various sources of energy across the country during the said period;**
- (d) the details of the regions having the lowest share in production and consumption of renewable sources of energy, State-wise;**
- (e) the details of the total value of exports made to other countries in terms of both renewable and non-renewable energy;**
- (f) the details of the share of exports and export earnings during the last three years and the current year; and**
- (g) whether the Government proposes to rationalize those standards for ease of business, if so, the details thereof?**

**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 energy produced across the country during the last three years and current year 2024-25 (upto February, 2025) are given at Annexure-I.**

**(b) : There is adequate availability of power in the country. Present installed generation capacity of the country is 470 GW. Government of India has addressed the critical issue of power deficiency by adding 238 GW of generation capacity since April, 2014, transforming the country from power deficit to power sufficient. Further, 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 details of All India Power Supply Position in the country during the last three years and current year 2024-25 (upto February, 2025) are given at Annexure-II. This indicates that the gap between Energy Requirement and Energy Supplied has declined to marginal level of 0.1% only during current year 2024-25 (upto February, 2025). Even this marginal gap between Energy Requirement and Energy Supplied is generally on account of constraints in the State transmission/distribution network.**

**(c) : The State/UT-wise details of the total distribution of electrical energy produced across the country as reflected in the Energy Supplied figures, during the last three years and current year (upto February,2025), are given at Annexure-III.**

**(d) : The State/UT-wise details of production of electricity from Renewable Energy during the last three years and the current year (upto February, 2025), are given at Annexure-IV.**

**(e) to (g) : The details of export of electricity by India to neighboring countries during the last three years and current year (upto February, 2025), are given at Annexure-V.**

**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.**

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**ANNEXURE-I****ANNEXURE REFERRED IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 5402  
ANSWERED IN THE LOK SABHA ON 03.04.2025**

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The source-wise details of total quantum of energy produced across the country during the last three years and current year 2024-25 (upto February, 2025):

All figures are in Million Units (MU)

Fuel		2021-22	2022-23	2023-24	2024-25 (Upto February, 2025)
<b>THERMAL</b>	<b>COAL</b>	10,41,487	11,45,908	12,60,903	11,80,981
	<b>DIESEL/HSD</b>	117	230	401	401
	<b>LIGNITE</b>	37,094	36,188	33,950	30,177
	<b>MULTI FUEL</b>	0	0	0	0
	<b>NAPTHA</b>	0	1	0	0
	<b>NATURAL GAS</b>	36,016	23,884	31,296	29,702
<b>THERMAL Total:</b>		11,14,714	12,06,211	13,26,549	12,41,261
<b>NUCLEAR</b>		47,112	45,861	47,937	51,962
<b>HYDRO</b>		1,51,627	1,62,099	1,34,054	1,39,780
<b>Bhutan Import</b>		7,493	6,742	4,716	5369
<b>Conventional Total:</b>		13,20,947	14,20,913	15,13,256	14,38,372
<b>RENEWABLE</b>	<b>Wind</b>	68,640	71,814	83,385	78,214
	<b>Solar</b>	73,484	1,02,014	1,15,975	1,27,339
	<b>Biomass</b>	3,483	3,161	3,417	3,392
	<b>Bagasse</b>	12,574	12,863	10,826	8,349
	<b>Small Hydro</b>	10,464	11,171	9,485	10,951
	<b>Others</b>	2,268	2,529	2,747	2,621
<b>Renewable Total (excluding Conventional Hydro) :</b>		1,70,912	2,03,553	2,25,835	2,30,868
<b>Grand Total:</b>		14,91,859	16,24,466	17,39,091	16,69,240

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## ANNEXURE-II

### ANNEXURE REFERRED IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 5402 ANSWERED IN THE LOK SABHA ON 03.04.2025

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The details of All India Power Supply Position in the country during the last three years and current year 2024-25 (upto February, 2025)

Year	Energy Requirement	Energy Supplied	Energy Not Supplied	
	(MU)	(MU)	(MU)	%
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* (upto February, 2025)	15,47,785	15,46,229	1,555	0.1

Note: (\*) Provisional for February, 2025

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**ANNEXURE REFERRED IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 5402 ANSWERED IN THE LOK SABHA ON 03.04.2025**

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The State/UT-wise details of the total distribution of electrical energy produced across the country as reflected in the Energy Supplied figures, during the year 2021-22 to 2022-23

State/UT/Region	April, 2021 - March, 2022				April, 2022 - March, 2023			
	Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied	
	(MU)	(MU)	(MU)	(%)	(MU)	(MU)	(MU)	(%)
Chandigarh	1,606	1,606	0	0.0	1,788	1,788	0	0.0
Delhi	31,128	31,122	6	0.0	35,143	35,133	10	0.0
Haryana	55,499	55,209	290	0.5	61,451	60,945	506	0.8
Himachal Pradesh	12,115	12,088	27	0.2	12,649	12,542	107	0.8
Jammu & Kashmir	19,957	18,434	1,524	7.6	19,639	19,322	317	1.6
Punjab	62,846	62,411	436	0.7	69,522	69,220	302	0.4
Rajasthan	89,814	89,310	504	0.6	1,01,801	1,00,057	1,745	1.7
Uttar Pradesh	1,29,448	1,28,310	1,138	0.9	1,44,251	1,43,050	1,201	0.8
Uttarakhand	15,521	15,426	94	0.6	15,647	15,386	261	1.7
Northern Region	4,17,934	4,13,915	4,019	1.0	4,63,088	4,58,640	4,449	1.0
Chhattisgarh	31,908	31,872	35	0.1	37,446	37,374	72	0.2
Gujarat	1,23,953	1,23,666	287	0.2	1,39,043	1,38,999	44	0.0
Madhya Pradesh	86,501	86,455	46	0.1	92,683	92,325	358	0.4
Maharashtra	1,72,823	1,72,809	14	0.0	1,87,309	1,87,197	111	0.1
Dadra & Nagar Haveli and Daman & Diu	9,433	9,433	0	0.0	10,018	10,018	0	0.0
Goa	4,448	4,448	0	0.0	4,669	4,669	0	0.0
Western Region	4,29,065	4,28,683	383	0.1	4,77,393	4,76,808	586	0.1
Andhra Pradesh	68,413	68,219	194	0.3	72,302	71,893	410	0.6
Telangana	70,539	70,523	16	0.0	77,832	77,799	34	0.0
Karnataka	72,437	72,417	20	0.0	75,688	75,663	26	0.0
Kerala	26,579	26,570	9	0.0	27,747	27,726	21	0.1
Tamil Nadu	1,09,816	1,09,798	18	0.0	1,14,798	1,14,722	77	0.1
Puducherry	2,894	2,893	1	0.0	3,051	3,050	1	0.0
Lakshadweep (#)	56	56	0	0.0	64	64	0	0.0
Southern Region	3,50,678	3,50,421	258	0.1	3,71,467	3,70,900	567	0.2

State/UT/Region	April, 2021 - March, 2022				April, 2022 - March, 2023			
	Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied	
	(MU)	(MU)	(MU)	(%)	(MU)	(MU)	(MU)	(%)
<b>Bihar</b>	<b>36,216</b>	<b>35,761</b>	<b>455</b>	<b>1.3</b>	<b>39,545</b>	<b>38,762</b>	<b>783</b>	<b>2.0</b>
<b>DVC</b>	<b>23,741</b>	<b>23,736</b>	<b>4</b>	<b>0.0</b>	<b>26,339</b>	<b>26,330</b>	<b>9</b>	<b>0.0</b>
<b>Jharkhand</b>	<b>11,148</b>	<b>10,590</b>	<b>558</b>	<b>5.0</b>	<b>13,278</b>	<b>12,288</b>	<b>990</b>	<b>7.5</b>
<b>Odisha</b>	<b>38,339</b>	<b>38,332</b>	<b>7</b>	<b>0.0</b>	<b>42,631</b>	<b>42,584</b>	<b>47</b>	<b>0.1</b>
<b>West Bengal</b>	<b>54,001</b>	<b>53,945</b>	<b>57</b>	<b>0.1</b>	<b>60,348</b>	<b>60,274</b>	<b>74</b>	<b>0.1</b>
<b>Sikkim</b>	<b>610</b>	<b>609</b>	<b>0</b>	<b>0.0</b>	<b>587</b>	<b>587</b>	<b>0</b>	<b>0.0</b>
<b>Andaman-Nicobar (#)</b>	<b>335</b>	<b>327</b>	<b>8</b>	<b>2.3</b>	<b>348</b>	<b>348</b>	<b>0</b>	<b>0.1</b>
<b>Eastern Region</b>	<b>1,64,054</b>	<b>1,62,973</b>	<b>1,081</b>	<b>0.7</b>	<b>1,82,791</b>	<b>1,80,888</b>	<b>1,903</b>	<b>1.0</b>
<b>Arunachal Pradesh</b>	<b>875</b>	<b>874</b>	<b>1</b>	<b>0.1</b>	<b>915</b>	<b>892</b>	<b>24</b>	<b>2.6</b>
<b>Assam</b>	<b>10,844</b>	<b>10,825</b>	<b>19</b>	<b>0.2</b>	<b>11,465</b>	<b>11,465</b>	<b>0</b>	<b>0.0</b>
<b>Manipur</b>	<b>1,019</b>	<b>1,018</b>	<b>1</b>	<b>0.1</b>	<b>1,014</b>	<b>1,014</b>	<b>0</b>	<b>0.0</b>
<b>Meghalaya</b>	<b>2,256</b>	<b>2,243</b>	<b>13</b>	<b>0.6</b>	<b>2,237</b>	<b>2,237</b>	<b>0</b>	<b>0.0</b>
<b>Mizoram</b>	<b>656</b>	<b>644</b>	<b>12</b>	<b>1.8</b>	<b>645</b>	<b>645</b>	<b>0</b>	<b>0.0</b>
<b>Nagaland</b>	<b>852</b>	<b>851</b>	<b>1</b>	<b>0.1</b>	<b>926</b>	<b>873</b>	<b>54</b>	<b>5.8</b>
<b>Tripura</b>	<b>1,578</b>	<b>1,578</b>	<b>0</b>	<b>0.0</b>	<b>1,547</b>	<b>1,547</b>	<b>0</b>	<b>0.0</b>
<b>North-Eastern Region</b>	<b>18,079</b>	<b>18,033</b>	<b>47</b>	<b>0.3</b>	<b>18,758</b>	<b>18,680</b>	<b>78</b>	<b>0.4</b>
<b>All India</b>	<b>13,79,812</b>	<b>13,74,024</b>	<b>5,787</b>	<b>0.4</b>	<b>15,13,497</b>	<b>15,05,914</b>	<b>7,583</b>	<b>0.5</b>

(#) Lakswadeep and Andaman and Nicobar Islands are standalone systems, power supply position of these do not form part of regional requirement and energy supplied.

**The State/UT-wise details of the total distribution of electrical energy produced across the country as reflected in the Energy Supplied figures, during the year 2023-24 to 2024-25 (upto February, 2025)**

State/UT/Region	April, 2023 - March, 2024				April,2024 - February, 2025*			
	Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied	
	( MU )	( MU )	( MU )	( % )	( MU )	( MU )	( MU )	( % )
Chandigarh	1,789	1,789	0	0.0	1,843	1,843	0	0.0
Delhi	35,501	35,496	5	0.0	35,935	35,924	12	0.0
Haryana	63,983	63,636	348	0.5	65,605	65,575	30	0.0
Himachal Pradesh	12,805	12,767	38	0.3	12,495	12,458	37	0.3
Jammu & Kashmir	20,040	19,763	277	1.4	18,526	18,439	87	0.5
Punjab	69,533	69,528	5	0.0	72,623	72,623	0	0.0
Rajasthan	1,07,422	1,06,806	616	0.6	1,04,549	1,04,245	304	0.3
Uttar Pradesh	1,48,791	1,48,287	504	0.3	1,53,505	1,53,203	302	0.2
Uttarakhand	15,644	15,532	112	0.7	15,563	15,521	42	0.3
Northern Region	4,76,852	4,74,946	1,906	0.4	4,82,076	4,81,133	943	0.2
Chhattisgarh	39,930	39,872	58	0.1	38,757	38,729	28	0.1
Gujarat	1,45,768	1,45,740	28	0.0	1,38,514	1,38,514	0	0.0
Madhya Pradesh	99,301	99,150	151	0.2	95,286	95,162	124	0.1
Maharashtra	2,07,108	2,06,931	176	0.1	1,83,137	1,83,078	59	0.0
Dadra & Nagar Haveli and Daman & Diu	10,164	10,164	0	0.0	9,925	9,925	0	0.0
Goa	5,111	5,111	0	0.0	4,904	4,904	0	0.0
Western Region	5,17,714	5,17,301	413	0.1	4,80,698	4,80,488	210	0.0
Andhra Pradesh	80,209	80,151	57	0.1	71,471	71,468	3	0.0
Telangana	84,623	84,613	9	0.0	78,531	78,527	4	0.0
Karnataka	94,088	93,934	154	0.2	82,127	82,123	4	0.0
Kerala	30,943	30,938	5	0.0	28,597	28,588	8	0.0
Tamil Nadu	1,26,163	1,26,151	12	0.0	1,18,313	1,18,308	5	0.0
Puducherry	3,456	3,455	1	0.0	3,244	3,244	0	0.0
Lakshadweep (#)	64	64	0	0.0	61	61	0	0.0
Southern Region	4,19,531	4,19,293	238	0.1	3,82,325	3,82,300	24	0.0

State/UT/Region	April, 2023 - March, 2024				April, 2024 - February, 2025*			
	Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied	
<b>Bihar</b>	41,514	40,918	596	1.4	41,259	41,085	174	0.4
<b>DVC</b>	26,560	26,552	8	0.0	23,708	23,704	3	0.0
<b>Jharkhand</b>	14,408	13,858	550	3.8	13,941	13,865	76	0.5
<b>Odisha</b>	41,358	41,333	25	0.1	39,132	39,108	24	0.1
<b>West Bengal</b>	67,576	67,490	86	0.1	65,075	64,984	91	0.1
<b>Sikkim</b>	544	543	0	0.0	516	516	0	0.0
<b>Andaman-Nicobar (#)</b>	386	374	12	3.2	386	375	11	2.9
<b>Eastern Region</b>	1,92,013	1,90,747	1,266	0.7	1,83,681	1,83,314	367	0.2
<b>Arunachal Pradesh</b>	1,014	1,014	0	0.0	956	956	0	0.0
<b>Assam</b>	12,445	12,341	104	0.8	11,897	11,891	6	0.0
<b>Manipur</b>	1,023	1,008	15	1.5	978	974	5	0.5
<b>Meghalaya</b>	2,236	2,066	170	7.6	1,874	1,873	0	0.0
<b>Mizoram</b>	684	684	0	0.0	647	647	0	0.0
<b>Nagaland</b>	921	921	0	0.0	865	865	0	0.0
<b>Tripura</b>	1,691	1,691	0	0.0	1,779	1,779	0	0.0
<b>North-Eastern Region</b>	20,022	19,733	289	1.4	19,004	18,993	11	0.1
<b>All India</b>	16,26,132	16,22,020	4,112	0.3	15,47,785	15,46,229	1,555	0.1

**Note: (\*) Data for the month of February 2025 is provisional**

**(#) Lakswadeep and Andaman and Nicobar Islands are standalone systems, power supply position of these do not form part of regional requirement and energy supplied.**

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**ANNEXURE-IV****ANNEXURE REFERRED IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 5402 ANSWERED IN THE LOK SABHA ON 03.04.2025**

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The State/UT-wise details of production of electricity from Renewable Energy during the last three years and the current year (upto February, 2025)

All figures are in Million Units (MUs)

Name of State/UT	2021-22	2022-23	2023-24	2024-25 (Upto February, 2025)
Andaman & Nicobar Islands	34.77	37.88	39.50	35.63
Andhra Pradesh	15,662.61	16,411.91	17,464.48	14,605.40
Arunachal Pradesh	2.13	24.85	2.55	1.67
Assam	122.10	279.01	381.26	479.36
Bhutan	0.00	0.00	0.00	0.00
Bihar	239.83	288.85	342.08	394.90
Chandigarh	14.19	12.61	11.70	8.39
Chhattisgarh	1,938.21	2,003.05	2,477.44	2,919.23
Dadra & Nagar Haveli and Daman & Diu	96.83	30.62	28.86	25.95
Delhi	458.73	530.20	728.81	688.36
Goa	16.82	19.96	67.95	59.81
Gujarat	24,839.53	29,762.63	38,483.22	40,483.05
Haryana	1,135.42	1,419.73	1,651.50	2,042.87
Himachal Pradesh	2,043.76	2,912.83	2,586.52	3,035.72
Jammu and Kashmir	415.81	393.20	408.69	372.17
Jharkhand	28.71	22.10	23.16	21.06
Karnataka	28,634.28	29,574.48	30,526.55	31,457.53
Kerala	1,614.62	1,946.26	2,204.24	2,497.10
Ladakh	0.00	0.00	0.00	0.00
Lakshadweep	0.30	0.10	0.09	0.08
Madhya Pradesh	8,716.73	8,872.72	9,655.02	11,183.44
Maharashtra	15,845.64	17,206.59	18,765.41	17,970.04
Manipur	6.72	8.79	8.96	7.94
Meghalaya	44.68	72.16	66.55	112.88
Mizoram	28.09	62.27	99.11	71.85
Nagaland	63.47	111.95	81.14	96.96
Odisha	1,081.10	1,192.10	1,261.72	1,192.68
Puducherry	12.24	12.24	12.24	11.22
Punjab	3,242.15	4,169.58	4,122.40	2,849.22
Rajasthan	24,099.31	40,990.05	47,148.96	50,322.11
Sikkim	12.35	12.35	12.35	11.33
Tamil Nadu	24,061.28	27,626.45	29,603.31	31,659.49
Telangana	7,345.89	7,429.89	7,509.10	6,871.44
Tripura	7.62	6.58	7.01	5.36
Uttar Pradesh	6,328.94	7,217.18	7,201.59	6,739.04
Uttarakhand	872.32	932.39	930.94	855.91
West Bengal	1,845.09	1,959.12	1,920.39	1,778.72
<b>Grand Total:</b>	<b>1,70,912.29</b>	<b>2,03,552.68</b>	<b>2,25,834.83</b>	<b>2,30,867.92</b>

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**ANNEXURE-V****ANNEXURE REFERRED IN REPLY TO PARTS (e) TO (g) OF UNSTARRED QUESTION NO. 5402 ANSWERED IN THE LOK SABHA ON 03.04.2025**

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**The details of export of electricity by India to neighboring countries, during the last three years and current year (upto February, 2025):**

**All figures are in Million Units (MU)**

<b>Year</b>	<b>Bhutan</b>	<b>Bangladesh</b>	<b>Nepal</b>	<b>Myanmar</b>
<b>2021-22</b>	<b>322</b>	<b>7,327</b>	<b>2,127</b>	<b>8.81</b>
<b>2022-23</b>	<b>522</b>	<b>8,581</b>	<b>1,552</b>	<b>9.8</b>
<b>2023-24</b>	<b>1,868</b>	<b>8,394</b>	<b>1,850</b>	<b>8.78</b>
<b>2024-25 (upto February, 2025)</b>	<b>1,492</b>	<b>7,355</b>	<b>1,355</b>	<b>8.43</b>

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