GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1744
ANSWERED ON 04.08.2025

POWER FOR ALL INITIATIVES

1744 DR. ASHOK KUMAR MITTAL:

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

(a) whether specific milestones have been set to monitor the progress of expanding powergeneration and transmission infrastructure under the "Power for All" initiative and the detailsthereof;

(b) the measures taken to address challenges such as land acquisition, financing, andproject delays that could hinder achieving the target;

(c) the details of assessment of the capacity of existing infrastructure to meet the growingdemand for electricity, if so, the key findings thereof; and

(d) the steps being taken to ensure equitable distribution of electricity, particularly inunderserved and remote areas?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) to (c): Electricity being a concurrent subject, the supply and distribution to various consumer categories or regions within a State/UT fall under the jurisdiction of the respective State Government or Power Utility. It is the responsibility of the concerned distribution licensees to arrange the required quantum of power from various sources to ensure adequate supply. Under the “Power for All” initiative, the Government of India supports State Governments and Power Utilities ensuring the availability of sufficient generation capacity and a robust transmission network to serve end consumers.

There is adequate availability of power in the country. As on 30.06.25, the installed generation capacity of the country is 484.8 GW. Government of India has addressed the critical issue of power deficiency by adding 260.78 GW of fresh generation capacity since April, 2014 transforming the country from power deficit to power sufficient.

As per the National Electricity Plan (Generation) notified by CEA in May, 2023, the installed generation capacity in 2031-32 is projected to be about 874 GW including 573.5 GW of Renewable capacity. To ensure grid stability and facilitate the effective integration of variable renewable energy sources, the National Electricity Plan (Generation) outlines a requirement of installing Battery Energy Storage Systems (BESS) with an aggregate capacity of 47.2 GW and Pumped Storage Plants (PSP) with a capacity of 22.4 GW by 2031–32.

Further, India’s national transmission infrastructure is adequately developed to ensure reliable power flow across regions. A robust National Grid has been established to facilitate the transfer of power from power surplus regions to power deficit regions.

Inter and Intra-State Transmission System has been planned and implementation of the same is taken up in matching time frame of generation capacity addition. As per the National Electricity Plan, about 152.7thousand ckm of transmission lines and 1,052 GVA of transformation capacity is planned to be added (at 220 kV and above voltage level) by 2031-32.

Following actions/steps are being taken to address challenges in timely completion of power projects:

(i) The CEA monitors the progress of under-construction projects through site visits and regular meetings with developers to resolve critical issues. The Ministry of Power conducts regular reviews with state agencies to address inter-ministerial constraints and facilitate the resolution of outstanding matters. Additionally, project milestones are incorporated into the annual MoU between CPSUs and the Ministry of Power, with progress reviewed during Quarterly Performance Review meetings. The Project Monitoring Group (PMG) and PRAGATI portal enables monthly project reviews for proactive governance. These mechanisms aim to ensure the timely completion of power projects and overcome the challenges involved.

(ii) Revised RoW compensation guidelines issued under which compensation for the tower base area revised to 200% and for Right-of-way corridor to 30% of the land value. Further, supplementary guidelines were issued for assessing the market rate of land for the limited purpose of payment of RoW compensation for laying of Inter-state Transmission lines.

(d): Following steps have been taken to support States/Distribution Utilities for augmenting the distribution infrastructure for ensuring equitable distribution of electricity, including the underserved and remote areas:

(i) The Government supported States/UTs through schemes like **Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**, **Integrated Power Development Scheme (IPDS)**, and **Pradhan Mantri Sahaj Bijli Har Ghar Yojana (SAUBHAGYA)** to improve power access and quality. These schemes concluded on **31.03.2022**, with projects worth **Rs. 1.85 lakh crore** implemented for strengthening power distribution infrastructure.

(ii) **Revamped Distribution Sector Scheme (RDSS)** was launched in **July 2021** with aims to enhance the quality and reliability of power supply through a financially sustainable and efficient distribution sector. Projects worth **Rs. 2.82 lakh crore** have been sanctioned for infrastructure and smart metering, benefiting all regions, including underserved and remote areas.

(iii) The Government continues to support **grid-based household electrification** left out during **SAUBHAGYA**. Till date, works amounting to Rs. 6,486.67 Cr. have been sanctioned for electrification of 13,61,960 households under RDSS. This includes electrification works for households belonging to Particularly Vulnerable Tribal Group (PVTG) identified under **PM-JANMAN** (Pradhan Mantri JanjatiAdivasiNyayaMahaAbhiyan), households belonging to Scheduled Tribes identified under **DA-JGUA** (DhartiAabaJanjatiya Gram UtkarshAbhiyan) and households identified under **PM-AJAY** (Pradhan Mantri AnusuchitJaatiAbhyuday Yojana).

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1746
ANSWERED ON 04.08.2025

POWER OUTAGES ACROSS STATES AND MEASURES FOR STABLE SUPPLY

1746 SHRI NARAIN DASS GUPTA:

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

(a) details of power outages, including frequency, duration, and most affected regions overthe last six months, State-wise;

(b) key factors behind increased power cuts, such as infrastructure issues, fuel shortages,and seasonal demand fluctuations;

(c) measures taken to ensure a stable power supply, especially in States facing frequentoutages;

(d) details of ongoing/upcoming projects for infrastructure upgrades, capacity expansion,and improved distribution; and

(e) support mechanisms for affected households and businesses, including compensationor relief programs?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b): There is adequate availability of power in the country. Present installed generation capacity of the country is 484.819 GW. Government of India has addressed the critical issue of power deficiency by adding 260.784 GW of freshgeneration capacity since April, 2014 transforming the country from power deficit to power sufficient. Further, addition of 2,04,069 circuit kilometer (ckm) of Transmission lines, 8,29,157 MVA of Transformation capacity and 84,390 MW of Inter-Regional capacity has been done since 2014 with capability of transferring 1,20,340 MW from one corner of the country to another.

The details of State/UT and region-wise Power Supply Position during the last six (06) months (January, 2025 to June, 2025) are given at **Annexure-I.** This indicates that energy supplied is commensurate to the energy requirement. There is average energy shortage of only 46 MU on monthly basis at all India level which is merely 0.03% of total monthly average Energy Supplied. Even this marginal energy shortage is generally on account of constraints in the State transmission/distribution network.

There is no shortage of coal in the country. As on 28.07.2025, coal stock at Domestic Coal Based (DCB) Thermal Power Plants (TPP) was 51.18 Million Tonnes (MT) as compared to 44.11 Million Tonnes (MT) on the same day in previous year showing a 16% growth in coal stock.

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(c): Electricity being a concurrent subject, the supply and distribution of electricity to the various categories of consumers in a State/UT is responsibility of the respective State Government/Power Utility. The following steps have been taken to ensure uninterrupted power supply in the country:-

(i) Hydro based generation is being scheduled in a manner so as to conserve water for meeting demand during peak period.

(ii) Planned maintenance of generating units is minimized during period of high demand.

(iii) Steady supply of coal to all the thermal power plants is ensured to prevent fuel shortages

(iv) Gas-based power plants of NTPC as well as other generators are scheduled during high power demand period.

(v) 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.

(vi) A robust national grid has been established to facilitate the transfer of power from power surplus regions to power deficit regions. The capacity of National Grid is being expanded on a continuous basis commensurate with the growth in electricity generation and electricity demand.

(vii) Proactive monitoring of generation projects under construction to facilitate commensurate capacity addition.

(viii) The 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 (HP-DAM) in Power Exchanges. Also, DEEP Portal (Discovery of Efficient Electricity Price) for e-Bidding and e-Reverse for procurement of short-term power by DISCOMs was introduced.

(d): Government of India has taken following measures to upgrade infrastructure, capacity expansion and improved distribution:

1. **Generation Planning:**

(i) Installed generation capacity in 2031-32 is likely to be 874 GW. This includes capacity from conventional sources- Coal, Lignite etc., renewable sources- Solar, Wind and Hydro.

(ii) With a view to ensure generation capacity remains ahead of projected peak demand, all the States, in consultation with CEA, have prepared their " **Resource Adequacy Plans (RAPs)",** which are dynamic 10 year rolling plans and includes power generation as well as power procurement planning.

(iii) All the States were advised to initiate process for creation of generation capacities; from all generation sources, as per their Resource Adequacy Plans.

(iv) In order to augment the power generation capacity, the Government of India has initiated following capacity addition programme:

(A) The projected thermal (coal and lignite) capacity requirement by the year 2034–35 is estimated at approximately 3,07,000 MW as against the 2,11,855 MW installed capacity as on 31.03.2023. To meet this requirement, Ministry of Power has envisaged to set up an additional minimum 97,000 MW coal and lignite based thermal capacity.

Several initiatives have already been undertaken. Thermal capacities of around 11,680 MW have already been commissioned since April 2023 till June 2025. In addition, 38,935 MW (including 5,695 MW of stressed thermal power projects) of thermal capacity is currently under construction. Further, contracts for 15,440 MW thermal capacity have been awarded in FY 2024-25 and is due for construction. To meet the projected demand in the country, 35,460 MW of coal and lignite based candidate capacity has been identified, which is at various stages of planning in the country.

(B) 13,463.5 MW of Hydro Electric Projects are under construction. Further, 9802 MW of Hydro Electric Projects are under various stage of planning and targeted to be completed by 2031-32.

(C) 6,600 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) 1,58,450 MW Renewable Capacity including 74,150 MW of Solar, 30,080 MW of Wind and 53,750 MW Hybrid power is under construction while 62,000 MW of Renewable Capacity including 46,010 MW of Solar and 15,990 MW Hybrid Power is at various stages of planning and targeted to be completed by 2029-30.

(D) In energy storage systems, 8250 MW/49500 MWh Pumped Storage Projects (PSPs) are under construction. Further, a total of 5780 MW/34680 MWh capacity of Pumped Storage Projects (PSPs) are concurred and yet to be taken up for construction. Out of these, 3500 MW/21000 MWh capacity of Pumped Storage Projects (PSPs) are under bidding and 15,829 MW/51,106 MWh Battery Energy Storage System (BESS) are currently under various stages of construction/bidding.

The details of ongoing/upcoming capacity addition projects are given at **Annexure- II.**

2. **Transmission Planning:** Inter and Intra-State Transmission System has been planned and implementation of the same is taken up in matching time frame of generation capacity addition. As per the National Electricity Plan, about 1,91,474 ckm of transmission lines and 1,274 GVA of transformation capacity is planned to be added (at 220 kV and above voltage level) during the ten year period from 2022-23 to 2031-32.

3. **Distribution System Planning:**

(i) Government of India launched Revamped Distribution Sector Scheme (RDSS) in July, 2021 with the objective of improving the quality and reliability of power supply to consumers through a financially sustainable and operationally efficient Distribution Sector. Under the scheme, infrastructure works worth Rs. 2.82 lakh Cr. have been sanctioned for the distribution utilities.

(ii) Government of India is further supporting States for grid electrification of left-out households during SAUBHAGYA, under RDSS. In addition, all Particularly Vulnerable Tribal Group (PVTG) households identified under PM-JANMAN (Pradhan Mantri JanjatiAdivasiNyayaMahaAbhiyan), tribal households under DA-JGUA (DhartiAabaJanjatiya Gram UtkarshAbhiyan),Scheduled Caste households under Pradhan MantriAnusuchitJaatiAbhyudayYojna (PM-AJAY) and remote & border households under Vibrant VilllageProgram (VVP) are being taken up for on-grid electrification under RDSS as per the scheme guidelines. Till date, works amounting to Rs. 6,486 Cr. have been sanctioned for electrification of 13.59 lakh households under RDSS.

With collective efforts of Centre and States/UTs, the average hours of supply in rural and urban areas have improved to 22.6 hrs and 23.4 hrs, respectively, in FY 2025.

(e): Section 57 of the Electricity Act,2003 mandates the Appropriate Commission to specify the standards of performance of a licensee and mechanism of compensation for the consumers in the event of the licensee not meeting the specified standards. In order to make the mechanism of consumer protection more effective, Ministry of Power has notified the Electricity (Rights of Consumers) Rules, 2020. These Rules subserve the interests of consumers andaim to ensure reliable and quality electricity supply to consumers by providing them with specific rights and timelines for various services to be provided by the distribution licensee.

The Rules mandate notification of the standards of performance for the distribution licensees by the State Electricity Commission and compensation to be paid to consumers by the distribution licensees for violation of these standards. The standards of performance for which the compensation required to be paid by the distribution licensee inter-alia include time taken for replacement of defective meters, time period within which bills are to be served, time period of resolving voltage-related complaints and bill-related complaints, etc. The Rules also envisage the establishment of Consumer Grievance Redressal Forum (CGRF) to address the grievances of all categories of consumers.

The Rules also mandate the distribution licensee to provide online access to various services such as application submission, monitoring the status of applications, payment of bills, status of complaints raised, etc, to consumers through its website, web portal, mobile app, and its various designated offices area-wise.

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ANNEXURE-I

ANNEXURE REFERRED IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1746 ANSWERED IN THE RAJYA SABHA ON 04.08.2025

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The details of State/UT and region-wise Power Supply Position (PSP) from January, 2025 to March, 2025:

States	January-25				February-25				March-25			
	Energy Req.	Energy Ava.	Surplus/Deficit		Energy Req.	Energy Ava.	Surplus/Deficit		Energy Req.	Energy Ava.	Surplus/Deficit	
	MU	MU	MU	%	MU	MU	MU	%	MU	MU	MU	%
Chandigarh	138	138	0	0.0	108	108	0	0.0	109	109	0	0.0
Delhi	2,587	2,586	0	0.0	2,041	2,041	0	0.0	2,319	2,319	0	0.0
Haryana	4,725	4,725	0	0.0	4,394	4,394	0	0.0	4,544	4,544	0	0.0
Himachal Pradesh	1,195	1,194	-1	-0.1	1,061	1,060	-2	-0.1	1,055	1,053	-3	-0.2
Jammu & Kashmir and Ladakh	2,080	2,076	-4	-0.2	1,730	1,728	-2	-0.1	1,848	1,844	-3	-0.2
Punjab	4,753	4,753	0	0.0	4,282	4,282	0	0.0	4,853	4,853	0	0.0
Rajasthan	10,119	10,119	0	0.0	9,650	9,650	0	0.0	9,284	9,284	0	0.0
Uttar Pradesh	11,303	11,301	-2	0.0	9,920	9,919	-1	0.0	11,510	11,507	-2	0.0
Uttarakhand	1,361	1,361	0	0.0	1,183	1,183	0	0.0	1,210	1,209	0	0.0
Northern Region	**38,390**	**38,381**	**-8**	**0.0**	**34,477**	**34,473**	**-4**	**0.0**	**36,740**	**36,731**	**-9**	**0.0**
Chhattisgarh	3,553	3,551	-2	-0.1	3,734	3,726	-9	-0.2	4,426	4,426	0	0.0
Gujarat	12,537	12,537	0	0.0	12,007	12,007	0	0.0	13,637	13,634	-3	0.0
Madhya Pradesh	10,124	10,108	-16	-0.2	9,761	9,748	-13	-0.1	9,111	9,102	-10	-0.1
Maharashtra	17,649	17,648	-1	0.0	16,914	16,914	0	0.0	19,361	19,361	0	0.0
Daman & Diu and D.N.Haveli	924	924	0	0.0	850	850	0	0.0	926	926	0	0.0
Goa	445	445	0	0.0	424	424	0	0.0	507	507	0	0.0
Western Region	**46,179**	**46,160**	**-19**	**0.0**	**44,542**	**44,520**	**-22**	**0.0**	**49,099**	**49,087**	**-13**	**0.0**
Andhra Pradesh	6,333	6,333	0	0.0	6,553	6,552	0	0.0	7,584	7,584	0	0.0
Telangana	8,165	8,165	0	0.0	8,410	8,410	0	0.0	9,828	9,828	0	0.0
Karnataka	8,736	8,736	0	0.0	8,872	8,871	0	0.0	10,396	10,396	0	0.0
Kerala	2,604	2,604	0	0.0	2,521	2,521	0	0.0	3,021	3,021	0	0.0
Tamil Nadu	9,747	9,747	0	0.0	10,187	10,187	0	0.0	11,902	11,902	0	0.0
Pondicherry	256	256	0	0.0	253	253	0	0.0	305	305	0	0.0
Lakshadweep	6	6	0	0.0	6	6	0	0.0	7	7	0	0.0
Southern Region	**35,844**	**35,844**	**0**	**0.0**	**36,799**	**36,798**	**-1**	**0.0**	**43,041**	**43,041**	**0**	**0.0**
Bihar	3,082	3,064	-18	-0.6	2,695	2,693	-2	-0.1	3,217	3,214	-2	-0.1
DVC	2,176	2,176	0	0.0	1,939	1,939	0	0.0	2,170	2,170	0	0.0
Jharkhand	1,214	1,214	0	0.0	1,089	1,087	-2	-0.2	1,253	1,252	-1	-0.1

Orissa	3,130	3,130	0	0.0	3,023	3,023	0	0.0	3,683	3,683	0	0.0
West Bengal	4,744	4,742	-3	-0.1	4,579	4,577	-2	0.0	6,087	6,086	-2	0.0
Sikkim	61	61	0	0.0	58	58	0	0.0	54	54	0	0.0
Andaman-Nicobar	35	34	-1	-2.0	35	34	-1	-2.9	39	38	-1	-2.8
Eastern Region	**14,412**	**14,391**	**-20**	**-0.1**	**13,388**	**13,382**	**-6**	**0.0**	**16,471**	**16,466**	**-5**	**0.0**
Arunachal Pradesh	95	95	0	0.0	94	94	0	0.0	94	94	0	0.0
Assam	853	853	0	0.0	795	795	0	0.0	946	946	0	0.0
Manipur	114	114	0	0.0	98	93	-4	-4.4	96	90	-6	-5.8
Meghalaya	204	204	0	0.0	155	155	0	0.0	172	172	0	0.0
Mizoram	70	70	0	0.0	60	60	0	-0.2	63	63	0	0.0
Nagaland	75	75	0	0.0	70	70	0	0.0	73	73	0	0.0
Tripura	128	128	0	0.0	124	124	0	0.0	159	159	0	0.0
North-Eastern Region	**1,539**	**1,539**	**0**	**0.0**	**1,397**	**1,393**	**-4**	**-0.3**	**1,604**	**1,599**	**-6**	**-0.3**
All India Level	**1,36,363**	**1,36,316**	**-48**	**0.0**	**1,30,604**	**1,30,565**	**-38**	**0.0**	**1,46,955**	**1,46,923**	**-32**	**0.0**

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The details of State/UT and region-wise Power Supply Position (PSP) from April, 2025 to June, 2025:

States	April-25					May-25				June-25		
	Energy Req.	Energy Ava.	Surplus/Deficit			Energy Req.	Energy Ava.	Surplus/Deficit		Energy Req.	Energy Ava.	Surplus/ Deficit
	MU	MU	MU	%	MU	MU	MU	%	MU	MU	MU	MU
Chandigarh	150	150	0	0.0	191	191	0	0.0	214	214	0	0.0
Delhi	3,181	3,180	-1	0.0	3,880	3,878	-2	-0.1	4,242	4,241	-1	0.0
Haryana	5,224	5,210	-13	-0.3	6,229	6,215	-14	-0.2	7,364	7,331	-33	-0.4
Himachal Pradesh	1,022	1,019	-3	-0.3	1,161	1,156	-5	-0.4	1,204	1,201	-3	-0.3
Jammu & Kashmir and Ladakh	1,625	1,624	-1	-0.1	1,557	1,556	-1	0.0	1,671	1,667	-4	-0.2
Punjab	5,247	5,227	-20	-0.4	6,540	6,535	-5	-0.1	9,097	9,097	0	0.0
Rajasthan	8,842	8,842	0	0.0	9,716	9,716	0	0.0	9,479	9,479	0	0.0
Uttar Pradesh	13,075	13,072	-2	0.0	16,117	16,117	0	0.0	16,837	16,833	-3	0.0
Uttarakhand	1,325	1,317	-8	-0.6	1,531	1,530	-1	-0.1	1,571	1,570	-1	-0.1
Northern Region	**39,821**	**39,772**	**-49**	**-0.1**	**47,061**	**47,034**	**-27**	**-0.1**	**51,816**	**51,770**	**-46**	**-0.1**
Chhattisgarh	4,298	4,298	0	0.0	3,624	3,624	0	0.0	3,552	3,550	-2	-0.1
Gujarat	14,834	14,834	0	0.0	13,828	13,828	0	0.0	13,091	13,091	0	0.0
Madhya Pradesh	9,199	9,199	0	0.0	8,525	8,523	-2	0.0	7,444	7,444	0	0.0
Maharashtra	19,769	19,769	0	0.0	17,029	17,027	-1	0.0	15,597	15,597	0	0.0
Daman & Diu and D.N.Haveli	963	963	0	0.0	948	948	0	0.0	934	934	0	0.0
Goa	534	534	0	0.0	502	502	0	0.0	450	450	0	0.0
Western Region	**50,786**	**50,786**	**0**	**0.0**	**45,515**	**45,512**	**-4**	**0.0**	**42,170**	**42,168**	**-2**	**0.0**
Andhra Pradesh	7,134	7,134	0	0.0	6,671	6,671	0	0.0	6,667	6,667	0	0.0
Telangana	7,354	7,354	0	0.0	6,042	6,042	0	0.0	6,295	6,295	0	0.0
Karnataka	8,780	8,780	0	0.0	7,343	7,343	0	0.0	6,823	6,823	0	0.0
Kerala	2,848	2,848	0	0.0	2,758	2,758	0	0.0	2,409	2,409	0	0.0
Tamil Nadu	11,902	11,902	0	0.0	11,383	11,383	0	0.0	11,532	11,532	0	0.0
Pondicherry	321	320	-1	-0.4	316	316	0	-0.1	311	311	0	0.0
Lakshadweep	7	7	0	0.0	7	7	0	0.0	6	6	0	0.0
Southern Region	**38,342**	**38,341**	**-1**	**0.0**	**34,516**	**34,516**	**0**	**0.0**	**34,041**	**34,041**	**0**	**0.0**
Bihar	3,644	3,644	0	0.0	4,415	4,412	-4	-0.1	4,657	4,657	0	0.0
DVC	2,111	2,111	0	0.0	2,178	2,177	-1	0.0	2,079	2,079	0	0.0
Jharkhand	1,255	1,255	0	0.0	1,350	1,349	-1	-0.1	1,326	1,326	0	0.0
Orissa	3,773	3,773	0	0.0	4,114	4,112	-2	0.0	3,942	3,942	0	0.0
West Bengal	6,630	6,630	0	0.0	6,940	6,922	-18	-0.3	7,075	7,075	0	0.0
Sikkim	46	46	0	0.0	41	41	0	0.0	42	42	0	0.0
Andaman- Nicobar	37	36	-1	-3.0	37	36	-1	-3.4	34	33	-1	-1.8
Eastern Region	**17,464**	**17,464**	**0**	**0.0**	**19,046**	**19,020**	**-26**	**-0.1**	**19,127**	**19,127**	**0**	**0.0**
Arunachal Pradesh	86	86	0	0.0	97	97	0	0.0	99	99	0	0.0
Assam	1,012	1,012	0	0.0	1,136	1,136	0	0.0	1,358	1,358	0	0.0
Manipur	88	86	-2	-2.5	97	97	0	0.0	89	88	0	-0.2
Meghalaya	164	164	0	0.0	168	168	0	0.0	162	162	0	0.0
Mizoram	60	60	0	0.0	60	60	0	0.0	57	57	0	0.0
Nagaland	76	76	0	0.0	82	82	0	0.0	86	86	0	0.0
Tripura	166	166	0	0.0	169	169	0	0.0	177	177	0	0.0
North-Eastern Region	**1,653**	**1,651**	**-2**	**-0.1**	**1,810**	**1,810**	**0**	**0.0**	**2,029**	**2,029**	**0**	**0.0**
All India Level	**1,48,066**	**1,48,013**	**-52**	**0.0**	**1,47,948**	**1,47,892**	**-57**	**0.0**	**1,49,183**	**1,49,135**	**-48**	**0.0**

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ANNEXURE-II

ANNEXURE REFERRED IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 1746 ANSWERED IN THE RAJYA SABHA ON 04.08.2025

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Details of under construction Thermal Power Projects:

(as on 30-06-2025)

S.No	Project Name / Implementing Agency	Sector	State	Unit No.	Capacity (MW)
F Y. 2025-26					
1	North Chennai TPP, St-III (TNGENCO)	STATE	Tamil Nadu	U-6	800
2	Yadadri TPS (TSGENCO)	STATE	Telangana	U-1	800
3	Patratu STPP (PVUNL)	CENTRAL	Jharkhand	U-1	800
4	Buxar TPP (SJVN)	CENTRAL	Bihar	U-1	660
5	Ghatampur TPP (NUPPL)	CENTRAL	Uttar Pradesh	U-2	660
6	Sagardighi TPP St-III (WBPDCL)	STATE	West Bengal	U-5	660
7	Khurja SCTPP (THDC)	CENTRAL	Uttar Pradesh	U-2	660
8	Udangudi STPP St-I (TNGENCO)	STATE	Tamil Nadu	U-1	660
9	Yadadri TPS (TSGENCO)	STATE	Telangana	U-4	800
10	Buxar TPP (SJVN)	CENTRAL	Bihar	U-2	660
11	Udangudi STPP St-I (TNGENCO)	STATE	Tamil Nadu	U-2	660
12	Yadadri TPS (TSGENCO)	STATE	Telangana	U-3	800
13	Ghatampur TPP (NUPPL)	CENTRAL	Uttar Pradesh	U-3	660
14	Patratu STPP (PVUNL)	CENTRAL	Jharkhand	U-2	800
15	Yadadri TPS (TSGENCO)	STATE	Telangana	U-5	800
			Sub-Total		**10880**
F Y. 2026-27					
16	Patratu STPP (PVUNL)	CENTRAL	Jharkhand	U-3	800
17	Ennore SCTPP (TANGEDCO)	STATE	Tamil Nadu	U-1	660
18	Ennore SCTPP (TANGEDCO)	STATE	Tamil Nadu	U-2	660
19	Mahan STPP,St-II (Mahan Energen)	PRIVATE	M. P.	U-3	800
			Sub-Total		**2920**
F Y. 2027-28					
20	Mahan STPP,St-II (Mahan Energen)	PRIVATE	M. P.	U-4	800
21	Talcher TPP St-III (NTPC)	CENTRAL	Odisha	U-1	660
22	Talcher TPP St-III (NTPC)	CENTRAL	Odisha	U-2	660
23	Lara STPP St-II (NTPC)	CENTRAL	Chhattisgarh	U-3	800
24	Raipur Ext TPP, Ph-II /Adani Power	PRIVATE	Chhattisgarh	U-3	800
25	Raigarh USCTPP, St-II/ Adani Power	PRIVATE	Chhattisgarh	U-3	800
			Sub-Total		**4520**
F Y. 2028-29					
26	Lara STPP St-II (NTPC)	CENTRAL	Chhattisgarh	U-4	800
27	Raipur Ext TPP, Ph-II /Adani Power	PRIVATE	Chhattisgarh	U-4	800
28	Raigarh USCTPP, St-II/ Adani Power	PRIVATE	Chhattisgarh	U-4	800
29	Koderma TPS, St-II/ DVC	CENTRAL	Jharkhand	U-1	800
30	Koderma TPS, St-II/ DVC	CENTRAL	Jharkhand	U-2	800
31	Raghunathpur TPS, Ph-II/DVC	CENTRAL	W. B.	U-3	660
32	SingareniTPP,Ph-II/SCCL	STATE	Telangana	U-3	800
33	NLC TALABIRA TPP (NLC)	CENTRAL	Odisha	U-1	800
			Sub-Total		**6260**
F Y. 2029-30					
34	Raghunathpur TPS, Ph-II/DVC	CENTRAL	W. B.	U-4	660
35	Singrauli STPP, St-III (NTPC)	CENTRAL	UP	U-8	800
36	Nabinagar STPP, St-II (NTPC)	CENTRAL	Bihar	U-4	800
37	NLC TALABIRA TPP (NLC)	CENTRAL	Odisha	U-2	800
38	DCR TPP Ext., /HPGCL	State	Haryana	U-1	800
39	Sipat STPP, St-III (NTPC)	CENTRAL	Chhattisgarh	U-1	800
40	Ukai TPP/GSECL	STATE	Gujarat	U-7	800
41	Singrauli STPP, St-III (NTPC)	CENTRAL	UP	U-9	800
42	Nabinagar STPP, St-II (NTPC)	CENTRAL	Bihar	U-5	800
43	NLC TALABIRA TPP (NLC)	CENTRAL	Odisha	U-3	800
			Sub-Total		**7860**
F Y. 2030-31					
44	Nabinagar STPP, St-II (NTPC)	CENTRAL	Bihar	U-6	800
			Sub-Total		**800**
				Grand Total	**33240**

List of stressed Thermal Power Projects

Sl. No	ProjectName	ImplementingAgency	Unit No	Capacity (MW)
1	ThamminapatnamTPP	M/sVedantaLtd	U-4	350
2	SinghitaraiTPP	M/sVedantaLtd	U-1	600
3	SinghitaraiTPP	M/sVedantaLtd	U-2	600
4	KorbaPh-IITPP(Lanco AmarkantakTPP)	M/sAdaniPower	U-3	660
5	KorbaPh-IITPP(Lanco AmarkantakTPP)	M/sAdaniPower	U-4	660
6	MalibrahamaniTPP	M/sJindal Power	U-2	525
7	IndBharath (utkal)	M/sJSW U-2	U-2	350
8	KSK Mahanadi	M/sJSW		600
9	Nashik(SinnarTPP)	Under Resolution		1350
	Total			**5695**

List of Hydro Electric Projects (above 25 MW) under implementation

Sl. No.	Name of Scheme (Executing Agency)	Sector	District	Capacity Under Execution (MW)	River/Basin
	Andhra Pradesh				
1	Polavaram (APGENCO/ Irrigation Dept., A.P.)	State	East & West Godavari	960.00	Godavari/EFR
2	Lower Sileru Extension (APGENCO)	State	AlluriSitharamaraju	230.00	Sileru/Godavari
	Sub-total: Andhra Pradesh			**1190.00**	
	Arunachal Pradesh				
3	Subansiri Lower (NHPC)	Central	Lower Subansiri	2000.00	Subansiri/ Brahmaputra
4	Dibang Multipurpose Project (NHPC)	Central	Lower Dibang Valley	2880.00	Dibang /Brahmaputra
5	HEO	Central	West Siang	240.00	Yarjep River
6	Tato-I	Central	Shi-Yomi	186.00	Siyom River
	Sub-total: Arunachal Pradesh			**5306.00**	
	Assam				
7	Lower Kopli (APGCL)	State	DimaHasao&Karbi Anglong	120.00	Kopili/ Brahmaputra
	Sub-total: Assam			**120.00**	
	Himachal Pradesh				
8	Luhri-I (SJVN)	Central	Kullu/Shimla	210.00	Satluj/Indus
9	Dhaulasidh (SJVN)	Central	Hamirpur/ Kangra	66.00	Beas/Indus
10	Sunni Dam (SJVN)	Central	Shimla/Mandi	382.00	Satluj
11	ShongtongKarcham (HPPCL)	State	Kinnaur	450.00	Satluj/ Indus
12	Chanju-III (HPPCL)	State	Chamba	48.00	ChanjuNallah
13	Tidong-I (Statkraft IPL)	Private	Kinnaur	150.00	Tidong/Satluj/Indus
14	Kutehr (JSW Energy Ltd)	Private	Chamba	240.00	Ravi/ Indus
	Sub-total: Himachal Pradesh			**1546.00**	
	Jammu & Kashmir				
15	PakalDul (CVPPL)	Central	Kishtwar	1000.00	Marusadar/ Chenab / Indus
16	Kiru (CVPPL)	Central	Kishtwar	624.00	Chenab/ Indus
17	Ratle (RHEPPL / NHPC)	Central	Kishtwar	850.00	Chenab/Indus
18	Kwar (CVPPPL)	Central	Kishtwar	540	Chenab/ Indus
19	Parnai (JKSPDC)	State	Poonch	37.50	Jhelum/ Indus
	Sub-total: Jammu & Kashmir			**3051.50**	
	Kerala				
20	Mankulam (KSEB)	State	Idukki	40.00	Melachery
	Sub-total: Kerala			**40.00**	
	Punjab				
21	Shahpurkandi (PSPCL/ Irrigation Deptt.,Pb.)	State	Pathankot	206.00	Ravi/ Indus
	Sub-total: Punjab			**206.00**	
	Sikkim				
22	Teesta St. VI NHPC	Central	South Sikkim	500.00	Teesta/Brahmaputra
23	Rangit-IV (NHPC)	Central	West Sikkim	120.00	Rangit/ Teesta/ Brahmaputra
	Sub-total: Sikkim			**620.00**	
	Uttarakhand				
24	VishnugadPipalkoti (THDC)	Central	Chamoli	444.00	Alaknanada/Ganga
25	TapovanVishnugad (NTPC)	Central	Chamoli	520.00	Dhauliganga / Alaknanada& /Ganga
26	Lakhwar Multipurpose Project (UJVNL)	State	Dehradun &TehriGarhwal	300.00	Yamuna
	Sub-total: Uttarakhand			**1264.00**	
	West Bengal				
27	Rammam-III (NTPC)	Central	Darjeeling	120.00	Rammam/ Rangit/Teesta Brahmaputra
	Sub-total: West Bengal			**120.00**	
	Total:			**13463.50**	

List of Pump Storage Projects under implementation

Sl. No.	Name of the Project	Sector	District	Capacity Under Execution (MW)	River/Basin
	Andhra Pradesh				
1	Pinnapuram	Private	Kurnool	480.00	Off Stream
2	Chitravathi PSP	Private	SatyaSai	500.00	Chitravathi River
3	Upper Sileru PSP	State	AlluriSitharamaraju	1350.00	Sileru/Godavari
	Sub-total: Andhra Pradesh			**2330.00**	
	Karnataka				
4	Sharavathy Pumped Storage Project	State	Upper dam (Shimoga) & Lower dam (Uttara Kannada)	2000.00	Sharavathy/WFR
	Sub-total: Karnataka			**2000.00**	
	Madhya Pradesh				
5	MP30 Gandhi Sagar Pumped Storage Project	Private	Neemuch	1920.00	Off Stream
	Sub-total: Madhya Pradesh			**1920.00**	
	Tamil Nadu				
6	Kundah Pumped Storage Phase-I,II&III)	State	Nilgiris	500.00	Kundah/Bhavani/ Cauvery/EFR
	Sub-total: Tamil Nadu			**500.00**	
	Uttarakhand				
7	Tehri PSS	Central	TehriGarhwal	500.00	Bhilangna/Bhagirathi/ Ganga
	Sub-total: Uttarakhand			**500.00**	
	Maharashtra				
8	Bhivpuri PSP	Private	Raigad	1000.00	Indrayani River
	Sub-total: Maharashtra			**1000.00**	
	Total			**8250.00**	

List of under construction Nuclear Power Projects

Sr. No.	Projects	Unit	Capacity(MW)
1	Rajasthan Atomic Power Station (RAPS)	Unit 8	700
2	Kudankulam Nuclear Power Plant, Tamil Nadu	Unit 3,4,5&6	4000
3	PFBR, Kalapakkam, Tamil Nadu	Unit 1	500
4	Gorakhpur HAVP (GHAVP), Haryana	Unit 1&2	1400
Total			6600

PFBR: Prototype Fast Breeder Reactor

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1747
ANSWERED ON 04.08.2025

IMPLEMENTATION OF RDSS IN TCED

1747 SMT. JEBI MATHER HISHAM:

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

(a) details of budget allocations and actual spending under the Revamped DistributionSector Scheme (RDSS) since its inception;

(b) details of funds granted and actual expenditure made under the RDSS since itsinception, State/UT-wise;

(c) whetherThrissur Corporation Electricity Department (TCED), Kerala, has been includedunder RDSS, details of sanctioned funds;

(d) whether TCED has submitted any proposals for sub-station construction under RDSS,details of sanctioned funds and current construction status;

(e) whether TCED has submitted the utilisation certificate for RDSS funds, if so, the detailsthereof, if not, the reasons therefor; and

(f) current operational status of RDSS implementation in TCED?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a): Revamped Distribution Sector Scheme (RDSS) was launched by the Government of India, in July 2021 with a total outlay of Rs 3,03,758 Cr and Central grant of Rs. 97,631 Cr. Budget allocated and release/expenditure till date under RDSS is as below:

Financial Year	Budget Allocated (Rs. Cr)	Release/expenditure (Rs. Cr)
2021-22	1,000	814
2022-23	6,000	2,738
2023-24	10,400	10,064
2024-25	12,974	12,974
2025-26	16,021	4,110 (till date)

……2.

(b): State wise details of funds allocated and actual expenditure made under the RDSS is placed at **Annexure.**

(c) & (d): Based on Detailed Project Report (DPR) submitted by the utility under RDSS, projects worth Rs 103 Cr (Central grant: 52 Cr) have been sanctioned for distribution infrastructure, including smart metering works, for Thrissur Corporation Electricity Department (TCED), Kerala. It includes works like new substation, augmentation of existing substation, feeder bifurcation, underground cabling works, SCADA/ DMS (Supervisory Control And Data Acquisition/ Distribution Management System) etc.

(e): Under RDSS, funds are released as per the scheme guidelines in phased manner. After the first phase (10% of total Central grant as an advance), funds are released to distribution utilities, including TCED, based upon submission of utilization certificate for already released funds.

(f): 85% of the sanctioned works in TCED have been awarded. Survey of the awarded works is underway post completion of which implementation shall start.

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ANNEXURE

ANNEXURE REFERRED IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1747 ANSWERED IN THE RAJYA SABHA ON 04.08.2025

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Funds Released under RDSS

(Amount in Rs. Cr)

Sl. No.	State/ UT	Sanctioned Central Grant	Central Grant released/ utilized
1	Andaman & Nicobar Islands	428	41
2	Andhra Pradesh	7,241	1,592
3	Arunachal Pradesh	992	98
4	Assam	4,107	1,595
5	Bihar	6,402	2,735
6	Chhattisgarh	3,217	541
7	Delhi	196	0
8	Goa	243	40
9	Gujarat	5,538	1,442
10	Haryana	4,078	326
11	Himachal Pradesh	2,561	181
12	Jammu & Kashmir	4,803	1,553
13	Jharkhand	2,272	563
14	Karnataka	22	5
15	Kerala	3,278	452
16	Ladakh	788	81
17	Madhya Pradesh	7,308	2,200
18	Maharashtra	13,182	2,581
19	Manipur	602	143
20	Meghalaya	1,195	197
21	Mizoram	351	73
22	Nagaland	479	37
23	Puducherry	107	5
24	Punjab	3,284	229
25	Rajasthan	12,902	1,808
26	Sikkim	409	102
27	Tamil Nadu	9,139	545
28	Telangana	72	2
29	Tripura	619	153
30	Uttar Pradesh	16,570	5,443
31	Uttarakhand	1,943	378
32	West Bengal	6,423	883
Total		1,20,750	26,024

In addition to above, funds in respect of following have been released under RDSS head:

i. Rs 4,125 Cr towards subsumed scheme of Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS), Pradhan Mantri Sahaj Bijli Har Ghar Yojana (SAUBHAGYA) and Prime Minister's Development Package.

ii. Rs 551 Cr towards Nodal Agency fee, Capacity Building programs, National Feeder Monitoring System, Quality Monitoring Works etc.

In view of above, total funds released under RDSS till date is Rs 30,700 Cr.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1748
ANSWERED ON 04.08.2025

RDSS AND ELECTRIFICATION IN RURAL AREAS

1748 # SHRI TEJVEER SINGH:

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

(a) number of Distribution Companies (DISCOMs) that have been allocated funds fortechnical improvements under the RDSS;

(b) whether the said scheme has recorded any substantial reduction in transmission losses,especially in rural and tribal areas;

(c) whether transparency has increased by providing smart meters, real time billing andmonitoring facilities to consumers; and

(d) whether any national level public dashboard has been introduced for performanceevaluation of DISCOMs?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a): Under Revamped Distribution Sector Scheme (RDSS), distribution infrastructure works have been sanctioned for 53 distribution utilities across 30 States/UTs.

(b): As a result of reform measures undertaken in the scheme and under various other initiatives and with the collective efforts of Centre and State/UTs. Aggregate Technical and Commercial (AT&C) losses have come downfrom 21.9% in FY21 to 16.12% in FY24. Further, billing efficiency has also improved from 83.62% in FY21 to 86.91% in FY24 which is a clear representation of improvement in technical losses.

(c): One of the primary advantages of smart meters is their ability to provide accurate billing information. Smart meters eliminate inaccuracies due to manual reading by automatically recording and communicating the consumption data to the billing system of distribution utility. Smart meters mobile app provides continuous, granular data on energy consumption, allowing users to monitor their usage patterns and identify areas where they can reduce consumption. The detailed consumption data empowers users to make informed decisions about their energy usage, potentially leading to cost savings and more efficient energy management. Apps allow users to set consumption thresholds and receive alerts when their usage exceeds pre-defined limits, helping them to avoid unexpected high bills.

(d): The performance of the distribution utilities is published annually in the ‘Report on Performance of Power Utilities’ covering key financial and operational parameters of the utilities.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1749
ANSWERED ON 04.08.2025

GRID INSTABILITY AND CONGESTION

1749 SHRI RAGHAV CHADHA:

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

(a) whether Government is aware of the fact that grid instability and congestion issuesarising because of large-scale integration of renewable energy sources like solar and wind;

(b) if so, the steps being taken to enhance grid resilience and ensure smooth evacuation ofrenewable power;

(c) whether Government is considering to strengthen regional load dispatch centres andgrid forecasting mechanisms to address intermittency; and

(d) the timeline and investment planned under such initiatives?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b): The integration of renewable energy sources into the grid presents several challenges for ensuring smooth and reliable grid operation. In order to enhance Grid resilience and to ensure smooth evacuation of renewable power, the Government of India has taken following steps:

(i) Development of inter and intra-State transmission network is being planned to keep pace with RE capacity addition. Strong inter connection of transmission networks to ensure better reliability in terms of anchoring voltage stability, angular stability, losses reduction etc. is being done.

(ii) Central Financial Assistance (CFA) is being provided to the States for setting up Transmission infrastructure for RE integration within their State under the Green Energy Corridor Scheme.

(iii) Encouraging setting up of RE projects with storage facilities for optimal utilisation of transmission facilities.

(iv) Flexibilization of Thermal generation is mandated to address the variability of RE generation.

(v) CEA (Technical Standards for Connectivity to the Grid) Regulations lay down the minimum technical requirements for the RE generating plants to ensure the safe, secure and reliable operation of the grid. The compliances to the said regulations by RE plants are verified jointly by Central Transmission Utility (CTUIL) and Grid-India/RLDCs before granting connectivity/interconnection to the national grid.

…….2.

(vi) Indian Electricity Grid Code mandates that RE plants participate in the primary and secondary frequency control in case of contingencies. Hybrid RE power plants, Energy Storage Systems such as BESS (Battery Energy Storage System) and PSP (Pump Storage Project) are being promoted for mitigating variability in RE generation and provide adequate frequency support to the grid.

(vii) The grid stability in case of voltage fluctuations is dependent on the adequate reactive power support from generators. The requirements w.r.t to the dynamic reactive power support from the Generators is covered in the CEA (Technical Standards for connectivity to the Grid) Regulations. Power equipment like STATCOM (Static Synchronous Compensator) and Synchronous Condensers are being planned for dynamically varying reactance support in the grid.

(c) & (d): Under Green Energy Corridor scheme, 12 number of Renewable Energy Management Centre (REMCs) and one EMC at South Andaman were established in different parts of the country mainly to forecast, schedule and monitor the wind and solar Variable Renewable Energy (VRE) resources. These REMCs are co-located with the existing RLDCs/SLDCs. Two more REMCs are under implementation at UP and Ladakh.

Ministry of Power (MoP) and Ministry of Earth Sciences (MoES) have been interacting very closely to ensure sharing of accurate weather data with stakeholders for RE generation forecasting. As a result of close coordination between the two Ministries, India Meteorological Department (IMD), National Centre for Medium Range Weather Forecasting (NCMRWF) and Indian Space Research Organisation (ISRO) are sharing weather forecast data with various stakeholders which is being utilised for Renewable Energy (RE) and demand forecasting. Further, Weather data of all Inter State Transmission System (ISTS) connected RE Plants is being shared by Grid-India with NCMRWF four times a day through secure API (Application Programming Interface) for improving weather forecast.

Further, guidelines have been issued for installation of Automatic Weather Station (AWS) in RE Plants for using the recorded weather data for data assimilation and validation for further improving the weather forecast.

In addition, IIT Bombay has been engaged for development of indigenous RE Forecasting Tool. In this regard, Memorandum of Understanding (MoU) has been signed by Grid India with IIT, Bombay in December, 2024 for development of Forecasting Tool at a total cost of Rs. 4.09 crore. RE generation forecasts model for the Northern Region is targeted to be completed by 2026.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1750
ANSWERED ON 04.08.2025

IMPLEMENTATION OF RDSS IN ANDHRA PRADESH

1750 SHRI SANA SATHISH BABU:

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

(a) the total amount of funds sanctioned, released, and utilised under the RevampedDistribution Sector Scheme (RDSS) for the State of Andhra Pradesh, and particularly in Kakinada district since its inception;

(b) the key components and works approved under RDSS in the State of Andhra Pradesh,including feeder segregation, smart metering, and infrastructure upgrades;

(c) whether any targets have been set for Aggregate Technical & Commercial (AT&C) lossreduction and reliability improvements in State of Andhra Pradesh under RDSS, and theprogress made so far;

(d) the steps taken to ensure timely implementation and capacity building of DISCOMs inState of Andhra Pradesh, and whether any delays or challenges have been reported?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a): Under Revamped Distribution Sector Scheme (RDSS), distribution infrastructure works, including smart metering works, amounting to Rs. 14,838 Cr. (Government Budgetary Support (GBS): Rs. 7,241 Cr.) have been sanctioned for the State of Andhra Pradesh out of which GBS of Rs 1,572 Cr has been released/ utilized till date. For the district of Kakinada, loss reduction works amounting to Rs. 217 Cr. (GBS: Rs. 130 Cr.) have been sanctioned out of which GBS of Rs 18 Cr has been released/ utilized till date.

(b): K**ey** component of works approved under RDSS in the State of Andhra Pradesh are:

i. Smart metering works for consumer, Distribution Transformer (DT) and feeder.
ii. Loss reduction works: Feeder segregation, feeder bifurcation, replacement of old/frayed conductor, disaster resilient works, IT/OT works and household electrification works.

(c): DISCOM-wise details of targets set under RDSS for AT&C and reliability metricsfor Andhra Pradesh are placed at **Annexure.**

…….2.

(d): Monitoring and review of works sanctioned under RDSS is being done by the Nodal Agency and the Ministry of Power on a regular basis. Further, an institutional mechanism at the State level i.e., Distribution Reforms Committee headed by Chief Secretary of the State concerned, and at the Central level i.e., Inter-Ministerial Monitoring Committee headed by Secretary (Power), has been put in place under the RDSS guidelines to review and monitor the implementation of the works sanctioned under the scheme.

Under RDSS, training is being delivered to distribution utilities personnel including those involved in execution of the scheme at field level as per guidelines. Till date, training has been imparted to 1,412 nos. of utility employees of the State of Andhra Pradesh under the scheme.

Initially there were some challenges in the implementation of sanctioned works under the scheme due to delay in administrative approvals such as technical/ financial evaluation, State Government approval, signing of agreements, GTP approval, etc. Ministry of Power and the Nodal Agencies are regularly following up with the States and distribution utilities on the progress of tendering, award and physical progress of sanctioned works and are handholding the utilities in resolving issues, if any. As a result, the works have started picking up pace.

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ANNEXURE

ANNEXURE REFERRED IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1750 ANSWERED IN THE RAJYA SABHA ON 04.08.2025

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DISCOM-wise details of targets set under RDSS for AT&C

DISCOM	Parameter	FY 2021-22		FY 2022-23		FY 2023-24	
		Target	Achievement	Target	Achievement	Target	Achievement
APEPDCL (East)	AT&C (%)	13.02	7.77	12	5.94	11	10.41
	Average daily hours of supply (Rural) (Hours/Day)*	23:40:15	23:40:28	23:40:30	23:40:40	23:40:45	23:49
	Average daily hours of supply (Urban) (Hours/Day)*	23:53:15	23:54:15	23:53:30	23:53:43	23:53:45	23:58
APCPDCL (Central)	AT&C (%)	16.45	10.03	14.13	10.33	11.54	11.37
	Average daily hours of supply (Rural) (Hours/Day)*	23:40	23:44	23:42	23:48	23:44	23:48
	Average daily hours of supply (Urban) (Hours/Day)*	23:53	23:56	23:54	23:54	23:55	24:00
APSPDCL (South)	AT&C (%)	24.29	13.6	20.01	8.08	15	13.95
	Average daily hours of supply (Rural) (Hours/Day)*	22:35	22:21	22:40	22:43	22:50	23:39
	Average daily hours of supply (Urban) (Hours/Day)*	23:10	23:07	23:20	23:22	23:25	23:49

- Achievement against hours of supply parameters is as per data provided by the State.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1751
ANSWERED ON 04.08.2025

DETAILS OF RDSS TO ASSAM POWER DISTRIBUTION COMPANY LTD.

1751 Shri Ajit Kumar Bhuyan:

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

(a) amount sanctioned under RDSS to State of Assam/APDCL and the details of amountreceived/ utilised till now;

(b) orders that have been placed by APDCL for procurement of Smart Meters over the lastthree years and provide details of supplier/Vendor, quantities, rate, terms of supply,performance guarantee, Testing and Inspection process during manufacturing etc.;

(c) total numbers of Smart Meters installed by APDCL till April' 2025, provide its detailsacross the State of Assam; and

(d) details of DTR Metering and Feeder Metering done by APDCL till June, 2025, electricalcircle wise and the details of the procurement/ installation order including total financialinvolvement?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a): Under Revamped Distribution Sector Scheme (RDSS), distribution infrastructure works, including smart metering works, amounting to Rs. 7,444Cr. (Central grant: Rs. 4,107 Cr.) have been sanctioned for Assam Power Distribution Company Limited (APDCL). Against the sanctioned works, Central grant of Rs. 1,549 Cr has been released/ utilized till date.

(b): As reported by the State of Assam,details of the work orders awarded by APDCL for procurement of smart meters under RDSS are placed at **Annexure-I.** Further, the State has reported that the following tests are carried out for all smart meters:

i. Factory Acceptance Test (FAT) for all smart meters at the manufacturing facilities as per procedures defined in the Bureau of Indian Standards (BIS).

ii. Sample smart meter lots are subjected to further testing for their accuracy at the APDCL Testing & Commissioning (T&C) Laboratories.

iii. Random samples are also sent to third party National Accreditation Board for Testing and Calibration Laboratories (NABL) accredited labs for testing of the smart meters.

(c): Total numbers of smart meters installed byAPDCL across the Stateunder RDSS till April 30, 2025 are as below:

Consumer	Distribution Transformer (DT)	Feeder	Total
30,70,764	**55,048**	**2,658**	**31,28,470**

(d): As reported by the State, electrical circle-wise details of DT and Feeder meters installed and financial involvement (award cost) in Assam till June, 2025 are placed at **Annexure-II.**

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ANNEXURE-I

ANNEXURE REFERRED IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1751 ANSWERED IN THE RAJYA SABHA ON 04.08.2025

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Details of work order placed by APDCL for installation of smart meters in Assam under RDSS:

Package	Contractor Name	Awarded quantity of smart meters (in Nos.)			Package Value (in Rs Cr)	Performance Guarantee (in Rs. Cr)
		Consumer	DT	Feeder		
DBFOOT (PKG-1)	IntelliSmart Infrastructure Pvt. Ltd.	3,63,500	0	0	333.70	4.98
DBFOOT (PKG-2)	IntelliSmart Infrastructure Pvt. Ltd.	2,56,600	0	0	235.55	3.52
RDSS Package-1	Apraava Smart Meter Private Limited	6,81,490	11,353	234	658.53	19.76
RDSS Package-2	Genus Assam Package-2 SPV Limited	6,92,343	11,872	323	683.59	20.51
RDSS Package-3	Hi Print Assam Package-3 SPV Limited	7,12,482	11,740	299	683.86	20.52
RDSS Package-4	Genus Assam Package-4 SPV Limited	7,36,726	18,044	600	758.60	22.76
RDSS Package-5	Genus Assam Package-5 SPV Limited	7,54,878	11,134	878	727.92	21.84
RDSS Package-6	NE Smart Metering Limited	7,59,220	13,404	448	844.76	25.34
RDSS Package-7	Assam Smart Metering Private Limited	15,02,859	17,360	659	1,363.61	40.91
Total		**64,60,098**	**94,907**	**3,441**	**6,290.13**	**180.14**

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ANNEXURE-II

ANNEXURE REFERRED IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 1751 ANSWERED IN THE RAJYA SABHA ON 04.08.2025

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Circle wise details of DT and Feeder meters installed in Assam under RDSS as on 30.06.2025

Circle	DT	Feeder
Badarpur	3,876	110
Barpeta	3,719	157
Bongaigaon	6,254	126
Cachar	3,415	122
Dibrugarh	2,451	177
GEC-I	0	207
GEC-II	51	157
Golaghat	2,437	123
Jorhat	2,734	172
KANCH	2,599	122
Kokrajhar	4,496	106
Mangaldoi	3,403	139
Marigaon	1,492	56
N. Lakhimpur	4,078	130
Nagaon	4,025	168
Rangia	2,112	221
Sivasagar	3,999	165
Tezpur	3,463	205
Tinsukia	2,537	184
Total	**57,141**	**2,847**

Financial Involvement (award cost) against DT and Feeder Metering under RDSS

Component	Financial Involvement in Rs. Cr
DT Meters	451.72
Feeder Meters	16.94

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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 energyover the past five years including the current year;

(b) whether it is a fact that this production is disproportionate to the demand of energy inthe country;

(c) if so, the details thereof;

(d) the details of the total distribution of energy through various sources of energy acrossthe 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 bothrenewable 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

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ANNEXURE-I

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

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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
	NAPTHA	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**

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ANNEXURE-II

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

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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

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ANNEXURE-III

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

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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 (MU)	Energy Supplied (MU)	Energy not Supplied (MU)	Energy not Supplied (%)	Energy Requirement (MU)	Energy Supplied (MU)	Energy not Supplied (MU)	Energy not Supplied (%)
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**

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ANNEXURE-IV

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

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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

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1753
ANSWERED ON 04.08.2025

NATIONAL STREET LIGHTING PROGRAMME IN THE STATE OF TAMIL NADU

1753 SHRI C. VE. SHANMUGAM:

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

(a) whether Government implements National Street Lighting Programme in the country;

(b) if so, the details thereof including the details of the districts in State of Tamil Naducovered under the said programme;

(c) the details of the funds allocated and utilized under the said programme in the country,including State of Tamil Nadu;

(d) whether any problems have been reported in the implementation of the saidprogramme; and

(e) if so, the steps taken to overcome such problems?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a): Street Lighting National Programme (SLNP) launched in 2015, aims to reduce energy consumption and costs in public lighting through widespread adoption of LED lamps for street lighting across India. The Energy Efficiency Services Limited (EESL), a joint venture of CPSEs under Ministry of Power, is the implementing agency for the SLNP.

(b): The SLNP is a voluntary programme wherein Local Bodies/ State/UT Government need to express its consent and willingness to implement the programme in their jurisdiction. Till date no such request/consent has been received from Tamil Nadu by the EESL.

(c): Government of India has not allocated any funds for SLNP, as the programme is implemented by EESL in self-financing mode.

(d) & (e): There have generally been no specific problems in implementing the SLNP, once the agreements and consents from the respective authorities are finalized.

However, the outstanding receivables against SLNP amounting approximately to ₹2702 crores [excluding Delayed Payment Surcharge], as on 30.06.2025 from various States and ULBs, is one of the major challenges being faced by EESL.

SLNP has largely achieved its objective of catalyzing the adoption of energy efficient street lights in the country and now urban and rural local bodies are taking it forward through alternative options including CAPEX model.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.1754
ANSWERED ON 04.08.2025

POWER DEMAND AND GRID INFRASTRUCTURE

1754 SMT. SUMITRA BALMIK:

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

(a) the peak and average demand of electric power in the country, month-wise, State-wiseand national (average) over the last three years;

(b) the daily variance in peak power demand and average demand, provide State-wise, thedetails thereof;

(c) steps being taken by Government to ensure availability of power during the peak loadevents; and

(d) whether the States and Union Government maintain their own grid network separately,the details of the power grid sharing in the country along with the major challenges and thesteps taken towards resolution?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b): Indian power system has all kinds of diversity i.e. diurnal, seasonal, cultural, agricultural, industrial etc. having a bearing on the electricity demand pattern. The large geographical area of India is demarcated electrically into five regions from the ease of power system operation point of view and each region has its unique demand characteristic. The difference in type and nature of load, climate, geographical conditions and cultural practices affects the demand curve of a region, making one region different from another. Additionally, daily variations in maximum and minimum demand are influenced by factors such as load growth and seasonal variations. The month-wise peak demand & average demand of the country is given at **Annexure-I** and such details for States/ UTs are given at **Annexure-II**.

(c): Following steps have been taken to ensure availability of power during the peak load events:

(i) Hydro based generation is being scheduled in a manner so as to conserve water for meeting demand during peak period.

(ii) Planned maintenance of generating units is minimized during period of high demand.

(iii) Steady supply of coal to all the thermal power plants is ensured to prevent fuel shortages

(iv) Gas-based power plants of NTPC as well as other generators are scheduled during high power demand period.

(v) 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.

(vi) Proactive monitoring of generation projects under construction to facilitate commensurate capacity addition.

(vii) The 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 (HP-DAM) in Power Exchanges. Also, DEEP Portal (Discovery of Efficient Electricity Price) for e-Bidding and e-Reverse for procurement of short-term power by DISCOMs was introduced.

(d): Electricity is in the concurrent list and the grid network is developed and managed both in the State and Central Sector. Each State is responsible for development, operation and maintenance of its own transmission infrastructure – Intra-State Transmission System (InSTS). For efficient and coordinated development of the transmission system of the nation, the Central Government through the Central Transmission Utility is responsible for planning, the development of the overlaying network - Inter-State Transmission System (ISTS) inter connecting the individual State Transmission Systems.

The details of the transmission system (220 kV and above) as on 30.06.2025 under Inter-State and Intra- State Transmission System are given at **Annexure-III**.

India's national transmission infrastructure is adequately developed to ensure reliable power flow across regions, including during peak period. The capacity of National Grid is being expanded on a continuous basis commensurate with the growth in electricity generation and electricity demand. The inter-regional transmission capacity has been increased from 75,050 MW during 2016-17 to 1,20,340 MW as on June 2025 which is planned to increase to 1,43,000 MW by the year 2027 and further to 1,68,000 MW by the year 2032.

Under the National Electricity Plan (Volume-II Transmission), transmission network in the country is likely to expand from 4.95 lakh ckm (in June 2025) to 6.48 lakh ckm by the year 2032 for 220 kV and above voltage level. During the same period the transformation capacity is likely to increase from 1,360 Giga Volt Ampere (GVA) to 2,345 GVA for 220 kV and above voltage level.

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ANNEXURE-I

ANNEXURE REFERRED IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1754 ANSWERED IN THE RAJYA SABHA ON 04.08.2024

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Details of Peak Demand and Average Demand in the country during the last three years

(All figures in MW)

	2022-23	
Month	**Peak Demand**	**Average Demand**
April	2,15,888	1,87,195
May	2,05,996	1,82,480
June	2,12,341	1,86,194
July	1,92,363	1,72,969
August	1,96,611	1,75,880
September	2,00,351	1,76,702
October	1,87,041	1,53,317
November	1,88,481	1,56,042
December	2,06,489	1,63,290
January	2,12,559	1,70,772
February	2,11,215	1,76,822
March	2,09,361	1,72,497
	2023-24	
Month	**Peak Demand**	**Average Demand**
April	2,16,142	1,81,130
May	2,21,718	1,83,933
June	2,24,106	1,95,167
July	2,09,039	1,89,003
August	2,38,824	2,04,537
September	2,43,271	1,96,982
October	2,22,160	1,87,946
November	2,04,777	1,65,862
December	2,13,793	1,65,677
January	2,23,516	1,80,887
February	2,22,166	1,83,325
March	2,21,823	1,86,881
	2024-25	
Month	**Peak Demand**	**Average Demand**
April	2,24,181	2,00,559
May	2,49,856	2,08,799
June	2,44,529	2,12,014
July	2,26,786	2,01,654
August	2,16,486	1,93,912
September	2,30,613	1,95,451
October	2,19,179	1,87,120
November	2,07,513	1,71,963
December	2,24,246	1,74,170
January	2,37,298	1,83,284
February	2,38,127	1,94,351
March	2,35,254	1,97,520

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ANNEXURE-II

ANNEXURE REFERRED IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1754 ANSWERED IN THE RAJYA SABHA ON 04.08.2024

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Month-wise details of the State/UT-wise Peak Demand and Average Demand

State /	April,2022		May,2022		June,2022		July,2022	
System / Region	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)
Chandigarh	308	204	367	246	407	275	401	273
Delhi	6,197	4,447	7,070	5,075	7,695	5,447	7,517	5,251
Haryana	9,320	6,833	10,052	7,660	12,768	8,957	12,327	8,831
Himachal Pradesh	1,717	1,396	1,644	1,424	1,739	1,519	1,732	1,442
UT of J&K and Ladakh	2,603	2,109	2,678	2,121	2,723	2,178	2,718	2,063
Punjab	9,889	6,918	10,887	8,484	14,311	10,391	14,069	10,928
Rajasthan	14,291	11,419	15,949	12,161	16,012	12,692	12,332	9,763
Uttar Pradesh	21,146	18,168	25,046	19,157	25,456	21,160	25,951	20,208
Uttarakhand	2,329	1,945	2,354	1,963	2,594	2,181	2,342	1,982
Northern Region	**63,270**	**53,563**	**68,399**	**58,418**	**77,337**	**64,938**	**74,748**	**60,880**
Chhattisgarh	5,339	4,888	4,975	4,202	4,685	4,064	4,831	4,007
Gujarat	21,464	17,436	20,769	18,180	21,236	16,697	17,428	13,776
Madhya Pradesh	12,751	11,437	12,541	11,038	11,520	9,871	10,244	8,781
Maharashtra	30,935	24,760	27,969	23,715	26,972	21,550	22,540	18,401
Dadra & Nagar Haveli and Daman & Diu	1,252	1,156	1,252	1,137	1,243	1,167	1,198	1,129
Goa	718	601	711	618	663	538	624	494
Western Region	**70,581**	**61,015**	**68,091**	**59,307**	**65,826**	**54,325**	**53,550**	**47,011**
Andhra Pradesh	13,167	9,329	11,218	8,137	11,309	8,524	9,790	7,676
Telangana	13,636	10,000	10,519	7,786	9,898	7,392	12,468	7,234
Karnataka	14,725	10,073	12,260	7,670	11,805	8,228	10,885	7,162
Kerala	4,699	3,445	4,184	3,174	3,975	3,141	3,648	2,848
Tamil Nadu	17,306	14,574	16,636	13,827	16,929	14,200	15,989	13,421
Puducherry	481	383	493	376	501	384	479	370
Lakshadweep	12	8	12	8	11	7	11	7
Southern Region	**61,061**	**47,810**	**53,669**	**40,975**	**50,879**	**41,875**	**48,810**	**38,717**
Bihar	6,802	5,028	6,740	4,761	6,831	5,151	7,852	5,612
DVC	3,402	3,174	3,330	3,080	3,355	3,075	3,309	3,094
Jharkhand	2,118	1,627	1,837	1,385	1,895	1,444	2,253	1,640
Odisha	5,714	4,907	6,313	5,197	6,427	5,400	6,259	5,393
West Bengal	10,125	8,113	8,837	7,216	9,592	7,746	9,559	8,041
Sikkim	116	67	106	64	98	64	91	61
Andaman-Nicobar	62	43	60	39	59	39	58	37
Eastern Region	**27,522**	**22,924**	**26,167**	**21,709**	**27,206**	**22,886**	**27,739**	**23,853**
Arunachal Pradesh	133	98	142	102	158	111	143	110
Assam	1,797	1,077	2,144	1,282	2,141	1,377	2,231	1,671
Manipur	202	103	197	101	201	106	201	112
Meghalaya	359	229	343	224	342	216	332	236
Mizoram	118	79	117	71	118	70	119	75
Nagaland	138	96	145	101	150	120	159	124
Tripura	316	200	303	188	306	169	319	179
North-Eastern Region	**2,924**	**1,883**	**3,242**	**2,071**	**3,228**	**2,170**	**3,386**	**2,508**

Month-wise details of the State/UT-wise Peak Demand and Average Demand

State / System / Region	August,2022		September,2022		October,2022		November,2022	
	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)
Chandigarh	381	275	374	244	260	162	254	138
Delhi	6,446	4,973	6,687	4,787	4,990	3,290	3,941	2,838
Haryana	12,015	9,166	12,015	8,642	8,663	5,931	7,578	5,407
Himachal Pradesh	1,711	1,475	1,748	1,493	1,771	1,391	1,965	1,429
UT of J&K and Ladakh	2,782	2,147	3,137	2,086	2,823	2,114	3,074	2,290
Punjab	14,298	11,971	14,187	10,580	11,479	6,665	7,267	5,192
Rajasthan	13,808	9,900	15,843	12,132	14,072	10,607	16,023	12,189
Uttar Pradesh	25,437	19,950	27,369	18,428	22,631	13,535	17,387	12,788
Uttarakhand	2,339	1,916	2,313	1,797	2,092	1,478	2,141	1,498
Northern Region	**74,748**	**61,908**	**76,474**	**60,312**	**60,710**	**45,304**	**54,006**	**43,905**
Chhattisgarh	5,073	4,071	4,917	4,506	4,648	4,604	4,098	3,443
Gujarat	17,632	14,285	20,341	15,107	20,275	14,387	19,704	16,259
Madhya Pradesh	10,957	8,749	10,973	9,425	11,752	9,052	16,085	11,568
Maharashtra	24,186	18,822	22,574	18,650	22,513	17,965	25,936	20,989
Dadra & Nagar Haveli and Daman & Diu	1,216	1,124	1,233	1,161	1,243	1,124	1,205	1,113
Goa	622	503	647	493	655	487	679	457
Western Region	**56,976**	**48,046**	**57,709**	**49,691**	**58,367**	**47,969**	**66,879**	**54,520**
Andhra Pradesh	11,372	8,178	10,920	8,311	9,878	7,429	9,588	7,627
Telangana	13,695	8,600	13,191	8,744	11,847	7,548	9,953	7,268
Karnataka	11,275	7,152	11,834	7,457	10,306	6,843	12,463	8,332
Kerala	3,815	2,956	3,864	3,064	4,338	3,121	3,919	3,102
Tamil Nadu	16,411	12,848	16,110	13,113	15,217	11,854	14,856	11,548
Puducherry	457	353	460	352	428	327	418	321
Lakshadweep	11	7	11	7	11	7	10	7
Southern Region	**52,450**	**40,093**	**52,335**	**41,046**	**45,413**	**37,128**	**48,048**	**38,204**
Bihar	7,608	5,511	6,821	5,148	6,491	4,455	5,002	3,408
DVC	3,261	2,965	3,298	2,999	3,157	2,877	3,093	2,846
Jharkhand	2,138	1,549	2,081	1,568	2,068	1,503	2,128	1,470
Odisha	6,566	5,451	6,438	5,597	6,063	5,069	5,527	4,273
West Bengal	9,694	7,744	9,619	7,709	9,106	6,779	7,595	5,451
Sikkim	98	61	103	65	102	56	116	68
Andaman-Nicobar	58	37	58	40	59	40	58	39
Eastern Region	**28,275**	**23,292**	**27,754**	**23,096**	**26,225**	**20,746**	**22,225**	**17,521**
Arunachal Pradesh	155	100	144	97	121	100	125	89
Assam	2,379	1,724	2,338	1,696	2,310	1,352	1,714	1,073
Manipur	207	112	203	112	202	107	219	117
Meghalaya	349	249	354	250	356	252	381	277
Mizoram	119	56	127	67	127	60	135	78
Nagaland	162	128	162	116	168	100	165	91
Tripura	324	172	333	218	321	199	282	165
North-Eastern Region	**3,603**	**2,542**	**3,512**	**2,557**	**3,422**	**2,171**	**2,920**	**1,891**

Month-wise details of the State/UT-wise Peak Demand and Average Demand

State /	December,2022		January,2023		February,2023		March,2023	
System / Region	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)
Chandigarh	282	156	323	192	295	145	204	137
Delhi	4,964	2,926	5,623	3,322	4,667	2,860	3,979	2,864
Haryana	8,137	5,780	8,259	5,870	8,570	5,782	7,732	5,258
Himachal Pradesh	2,004	1,491	2,071	1,490	1,977	1,396	1,922	1,379
UT of J&K and Ladakh	2,831	2,417	3,019	2,589	3,044	2,483	2,859	2,319
Punjab	7,989	5,781	9,063	6,225	8,864	6,234	8,840	5,746
Rajasthan	16,777	12,949	17,399	12,915	16,754	12,764	15,833	10,137
Uttar Pradesh	19,970	13,304	21,342	14,398	18,602	13,438	19,572	12,929
Uttarakhand	2,374	1,651	2,492	1,801	2,368	1,657	2,185	1,562
Northern Region	**59,995**	**46,611**	**63,621**	**48,928**	**59,194**	**46,892**	**56,200**	**42,495**
Chhattisgarh	4,814	3,851	5,142	4,235	5,326	4,812	5,399	4,658
Gujarat	20,146	16,257	19,699	15,597	19,185	16,306	19,464	16,291
Madhya Pradesh	17,141	12,692	17,347	12,463	15,875	12,474	14,298	9,595
Maharashtra	27,234	22,368	27,860	22,392	28,519	23,560	28,576	23,638
Dadra & Nagar Haveli and Daman & Diu	1,228	1,133	1,240	1,136	1,278	1,178	1,272	1,169
Goa	689	540	677	524	689	562	718	580
Western Region	**71,677**	**57,791**	**71,227**	**57,540**	**69,777**	**60,150**	**70,223**	**57,196**
Andhra Pradesh	10,268	7,509	11,472	8,235	11,981	9,185	12,227	9,021
Telangana	14,017	8,644	13,906	10,006	14,794	11,618	15,497	11,975
Karnataka	13,149	8,500	14,972	9,846	15,543	11,077	15,828	11,563
Kerala	3,945	3,098	3,980	3,102	4,198	3,331	4,504	3,647
Tamil Nadu	15,305	11,695	15,720	12,403	16,459	13,312	17,729	14,516
Puducherry	400	312	496	316	421	331	453	355
Lakshadweep	10	7	11	7	11	8	12	8
Southern Region	**54,600**	**39,762**	**57,741**	**43,912**	**61,114**	**48,859**	**64,337**	**51,082**
Bihar	5,118	3,454	5,794	3,988	5,027	3,727	5,289	3,874
DVC	3,228	2,869	3,339	3,033	3,338	3,066	3,268	3,010
Jharkhand	2,138	1,486	2,061	1,543	2,019	1,484	1,970	1,487
Odisha	4,788	3,994	5,221	4,031	5,567	4,444	5,542	4,625
West Bengal	6,616	5,269	7,112	5,723	7,789	6,159	8,803	6,697
Sikkim	124	76	123	80	121	75	113	68
Andaman-Nicobar	60	40	60	39	59	41	60	43
Eastern Region	**21,153**	**17,149**	**22,461**	**18,401**	**22,940**	**18,961**	**23,779**	**19,771**
Arunachal Pradesh	145	105	166	115	159	111	167	117
Assam	1,590	1,094	1,651	1,098	1,572	1,108	1,670	1,134
Manipur	247	140	248	143	225	124	212	112
Meghalaya	395	299	404	297	394	279	374	256
Mizoram	143	88	159	90	139	80	129	70
Nagaland	152	98	139	94	148	99	156	101
Tripura	241	154	249	153	252	160	264	163
North-Eastern Region	**2,911**	**1,978**	**2,866**	**1,990**	**2,801**	**1,961**	**2,915**	**1,954**

Month-wise details of the State/UT-wise Peak Demand and Average Demand

State / System / Region	April,2023		May,2023		June,2023		July,2023	
	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)
Chandigarh	252	168	321	211	377	258	371	255
Delhi	5,422	3,568	6,916	4,193	7,226	5,100	7,398	5,299
Haryana	9,054	5,830	10,654	6,827	11,634	8,509	12,260	9,023
Himachal Pradesh	1,809	1,343	1,702	1,238	1,753	1,427	1,775	1,449
UT of J&K and Ladakh	2,890	2,354	2,823	2,320	2,542	2,162	2,628	2,069
Punjab	8,187	5,829	11,725	7,017	15,293	9,748	14,665	11,078
Rajasthan	13,776	10,273	16,470	11,116	15,840	11,308	14,204	11,246
Uttar Pradesh	23,473	15,458	26,386	17,855	27,611	21,037	28,704	20,605
Uttarakhand	2,228	1,678	2,415	1,795	2,536	2,060	2,298	1,824
Northern Region	**61,740**	**46,643**	**72,625**	**52,716**	**77,341**	**61,762**	**77,145**	**62,996**
Chhattisgarh	5,399	4,742	4,905	4,256	5,289	4,461	5,314	4,516
Gujarat	19,464	15,874	21,340	17,795	22,225	16,404	17,715	15,980
Madhya Pradesh	14,298	10,089	12,286	10,258	11,837	10,323	12,006	9,824
Maharashtra	28,576	24,338	28,160	24,752	28,546	24,371	24,544	22,041
Dadra & Nagar Haveli and Daman & Diu	1,272	1,194	1,265	1,181	1,311	1,221	1,307	1,064
Goa	718	627	755	651	776	618	647	527
Western Region	**70,223**	**58,134**	**68,767**	**60,147**	**69,366**	**58,662**	**58,165**	**54,845**
Andhra Pradesh	12,566	9,639	12,653	9,237	12,909	9,887	11,584	8,529
Telangana	14,591	10,182	9,879	7,489	11,417	8,335	12,610	8,588
Karnataka	16,110	11,950	15,111	10,106	14,198	10,211	12,359	8,294
Kerala	5,010	3,841	4,848	3,832	4,610	3,394	3,983	3,100
Tamil Nadu	19,045	15,595	18,361	14,533	18,220	15,095	17,458	14,381
Puducherry	485	388	524	424	520	432	508	408
Lakshadweep	12	8	12	8	11	7	11	7
Southern Region	**63,939**	**51,600**	**59,532**	**45,628**	**58,155**	**47,358**	**54,211**	**43,304**
Bihar	6,373	4,744	6,578	5,086	6,974	5,795	7,514	5,933
DVC	3,420	3,133	3,387	3,087	3,395	3,139	3,238	3,156
Jharkhand	2,026	1,678	2,001	1,753	2,077	1,790	2,036	1,723
Odisha	6,237	4,816	6,061	5,092	6,443	5,324	6,090	5,172
West Bengal	11,418	8,208	10,838	8,100	11,626	8,862	10,696	9,167
Sikkim	106	61	106	60	98	57	89	52
Andaman-Nicobar	60	46	61	45	61	43	58	41
Eastern Region	**29,560**	**22,648**	**28,791**	**23,202**	**30,256**	**24,975**	**29,633**	**25,209**
Arunachal Pradesh	155	101	165	102	155	105	151	111
Assam	2,013	1,265	2,219	1,388	2,307	1,585	2,390	1,775
Manipur	213	109	193	98	185	98	202	110
Meghalaya	336	260	352	262	333	250	330	253
Mizoram	127	77	122	70	125	71	122	76
Nagaland	150	94	152	100	167	112	167	119
Tripura	338	200	345	220	362	186	343	205
North-Eastern Region	**3,211**	**2,106**	**3,453**	**2,240**	**3,546**	**2,410**	**3,516**	**2,649**

Month-wise details of the State/UT-wise Peak Demand and Average Demand

State / System / Region	August,2023		September,2023		October,2023		November,2023	
	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)
Chandigarh	411	287	388	270	265	170	205	141
Delhi	7,437	5,516	6,993	5,199	5,583	3,844	4,320	2,940
Haryana	13,088	10,293	12,753	9,456	9,947	7,198	7,685	5,438
Himachal Pradesh	1,724	1,545	1,758	1,609	1,871	1,553	1,977	1,373
UT of J&K and Ladakh	2,735	2,158	2,805	2,112	2,735	2,070	2,710	2,203
Punjab	15,132	12,849	14,964	11,120	12,213	7,068	7,380	5,336
Rajasthan	17,420	13,910	17,956	13,053	15,641	12,320	16,409	12,166
Uttar Pradesh	27,689	21,211	27,389	20,373	24,096	16,452	19,033	13,356
Uttarakhand	2,303	1,888	2,368	1,933	2,259	1,666	2,141	1,530
Northern Region	**80,980**	**69,810**	**80,680**	**65,281**	**67,382**	**52,494**	**56,366**	**44,646**
Chhattisgarh	5,827	4,751	5,836	4,733	5,325	4,522	4,648	3,762
Gujarat	23,012	16,877	24,829	17,960	21,689	17,599	21,702	15,080
Madhya Pradesh	13,624	11,114	14,873	10,693	15,252	12,112	17,121	12,510
Maharashtra	31,178	22,811	27,678	22,001	28,206	24,269	28,386	23,269
Dadra & Nagar Haveli and Daman & Diu	1,327	1,064	1,306	1,100	1,316	1,206	1,267	1,111
Goa	667	561	704	572	734	503	733	585
Western Region	**76,050**	**58,012**	**75,027**	**57,921**	**71,411**	**61,478**	**73,288**	**57,609**
Andhra Pradesh	12,508	9,678	12,372	9,110	13,028	9,791	12,084	8,770
Telangana	14,816	10,334	15,380	9,341	15,266	10,979	11,857	8,537
Karnataka	16,958	10,630	14,814	9,733	15,978	10,453	15,301	9,774
Kerala	4,356	3,482	4,109	3,282	4,159	3,321	4,293	3,363
Tamil Nadu	17,890	14,925	16,860	14,230	17,079	14,398	15,732	12,263
Puducherry	505	417	478	405	484	410	467	354
Lakshadweep	11	7	11	7	11	7	10	7
Southern Region	**64,103**	**49,472**	**60,839**	**46,107**	**62,166**	**49,357**	**57,208**	**43,065**
Bihar	8,049	5,776	7,911	5,919	6,575	4,659	5,218	3,540
DVC	3,394	3,104	3,451	3,185	3,312	2,955	3,183	2,623
Jharkhand	2,193	1,754	1,960	1,711	1,830	1,608	1,788	1,513
Odisha	6,124	4,979	5,926	5,049	5,826	4,964	5,160	4,193
West Bengal	11,037	8,887	10,377	8,962	9,958	8,038	8,559	6,602
Sikkim	93	47	94	52	80	42	107	56
Andaman-Nicobar	61	44	62	41	63	43	64	45
Eastern Region	**29,958**	**24,553**	**28,920**	**24,881**	**26,833**	**22,267**	**23,216**	**18,528**
Arunachal Pradesh	155	112	163	124	167	124	160	115
Assam	2,353	1,807	2,413	1,900	2,237	1,475	1,932	1,181
Manipur	209	108	209	110	214	110	208	111
Meghalaya	322	244	331	229	336	242	363	259
Mizoram	126	71	129	68	141	71	144	81
Nagaland	174	120	172	120	166	110	147	96
Tripura	330	226	346	240	349	217	303	171
North-Eastern Region	**3,502**	**2,690**	**3,678**	**2,792**	**3,418**	**2,350**	**3,024**	**2,015**

Month-wise details of the State/UT-wise Peak Demand and Average Demand

State /	December,2023		January,2024		February,2024		March,2024	
System / Region	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)
Chandigarh	201	158	348	212	304	167	237	146
Delhi	4,884	2,996	5,816	3,684	5,406	3,142	4,482	2,980
Haryana	8,225	6,034	9,530	6,767	8,868	6,201	7,747	5,767
Himachal Pradesh	2,162	1,551	2,181	1,563	2,133	1,515	1,982	1,328
UT of J&K and Ladakh	2,904	2,448	3,181	2,732	3,071	2,446	2,896	2,303
Punjab	8,041	5,768	9,370	6,588	10,180	6,350	10,112	6,151
Rajasthan	17,570	12,541	18,128	13,657	17,867	13,152	17,030	12,002
Uttar Pradesh	19,874	13,225	22,703	15,869	20,346	13,505	21,243	14,180
Uttarakhand	2,417	1,703	2,635	1,922	2,523	1,757	2,260	1,617
Northern Region	**61,380**	**46,574**	**69,559**	**53,141**	**63,481**	**48,393**	**60,002**	**46,639**
Chhattisgarh	4,726	3,763	5,338	4,543	5,819	5,192	6,148	5,334
Gujarat	21,430	15,750	21,861	16,009	21,248	16,321	21,843	17,436
Madhya Pradesh	17,819	12,054	18,252	13,096	16,998	12,817	13,594	10,814
Maharashtra	27,755	21,822	28,651	23,409	28,969	24,689	28,795	25,223
Dadra & Nagar Haveli and Daman & Diu	1,281	1,185	1,294	1,185	1,304	1,213	1,283	1,166
Goa	704	570	721	561	749	597	767	612
Western Region	**74,483**	**56,454**	**74,583**	**60,113**	**73,830**	**62,137**	**70,528**	**61,844**
Andhra Pradesh	11,052	7,769	12,216	8,591	13,061	9,104	13,237	9,497
Telangana	12,666	8,649	13,810	10,194	15,164	11,024	15,622	11,974
Karnataka	15,005	10,405	15,668	11,172	16,632	12,547	17,212	13,340
Kerala	4,260	3,429	4,340	3,421	4,827	3,711	5,284	4,102
Tamil Nadu	15,558	12,572	16,621	13,007	17,996	15,027	19,041	16,365
Puducherry	431	354	453	344	465	386	467	401
Lakshadweep	10	7	11	7	12	7	12	8
Southern Region	**57,275**	**43,183**	**60,891**	**46,733**	**65,820**	**51,805**	**68,094**	**55,685**
Bihar	5,041	3,512	5,715	4,132	5,115	3,691	5,869	3,892
DVC	3,271	2,945	2,974	2,991	3,231	2,972	3,336	2,991
Jharkhand	1,810	1,487	1,908	1,613	1,836	1,512	1,995	1,537
Odisha	5,071	3,459	5,041	4,020	5,393	4,355	6,138	5,072
West Bengal	6,903	6,025	7,268	6,016	7,608	6,292	9,956	7,127
Sikkim	109	72	128	84	133	85	119	75
Andaman-Nicobar	63	43	63	43	65	48	65	45
Eastern Region	**22,011**	**17,503**	**23,044**	**18,858**	**23,650**	**18,913**	**27,079**	**20,700**
Arunachal Pradesh	163	126	181	119	186	128	177	120
Assam	1,553	1,099	1,538	1,142	1,636	1,192	1,810	1,186
Manipur	236	131	258	151	252	137	226	123
Meghalaya	349	267	405	276	399	270	399	244
Mizoram	140	83	162	94	155	92	136	81
Nagaland	162	100	163	95	156	99	158	92
Tripura	240	156	354	164	262	157	288	166
North-Eastern Region	**2,769**	**1,963**	**2,928**	**2,042**	**2,861**	**2,076**	**3,126**	**2,012**

Month-wise details of the State/UT-wise Peak Demand and Average Demand

State / System / Region	April,2024		May,2024		June,2024		July,2024	
	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)
Chandigarh	258	181	432	282	449	330	434	321
Delhi	5,447	3,972	8,302	5,655	8,656	6,313	8,175	5,860
Haryana	9,502	6,516	12,451	9,192	14,469	10,834	14,662	11,240
Himachal Pradesh	1,819	1,354	1,827	1,510	1,919	1,678	1,888	1,695
UT of J&K and Ladakh	2,924	2,112	2,878	2,214	2,902	2,288	2,635	2,218
Punjab	9,914	6,323	14,366	9,687	16,058	12,105	16,006	13,827
Rajasthan	14,283	11,300	17,567	13,898	17,774	14,533	16,371	13,055
Uttar Pradesh	25,462	18,331	29,727	23,602	30,618	25,200	30,298	23,316
Uttarakhand	2,357	1,809	2,781	2,235	2,863	2,379	2,545	2,101
Northern Region	**62,884**	**52,074**	**86,305**	**68,461**	**91,592**	**75,850**	**87,468**	**73,821**
Chhattisgarh	6,367	5,582	6,073	4,863	5,438	4,980	5,948	4,901
Gujarat	23,933	18,799	24,922	19,549	25,588	19,253	19,991	15,896
Madhya Pradesh	13,151	11,310	14,309	12,339	13,953	11,212	12,748	10,376
Maharashtra	28,924	25,840	28,452	24,335	28,310	23,198	24,174	19,992
Dadra & Nagar Haveli and Daman & Diu	1,292	1,202	1,348	1,241	1,353	1,261	1,343	1,241
Goa	803	678	803	692	799	608	697	547
Western Region	**73,511**	**64,694**	**74,829**	**64,278**	**74,933**	**61,742**	**62,168**	**54,216**
Andhra Pradesh	13,418	9,821	13,712	9,517	12,578	8,823	10,901	8,560
Telangana	13,916	10,094	11,257	8,142	11,244	8,287	13,541	9,206
Karnataka	17,015	13,213	16,826	10,479	14,357	8,890	13,820	8,696
Kerala	5,904	4,529	5,797	3,818	4,383	3,377	4,167	3,174
Tamil Nadu	20,326	17,911	20,784	16,014	18,501	15,090	18,197	15,095
Puducherry	530	455	549	446	527	430	512	422
Lakshadweep	12	8	13	9	12	8	11	7
Southern Region	**67,086**	**56,030**	**66,163**	**48,421**	**59,066**	**44,903**	**56,134**	**45,158**
Bihar	6,949	5,393	7,485	5,649	7,604	6,346	7,998	6,255
DVC	3,288	3,026	3,409	3,107	3,482	3,157	3,557	3,067
Jharkhand	2,133	1,824	2,295	1,886	2,289	1,990	2,224	1,845
Odisha	6,609	5,445	6,867	5,543	6,905	5,480	6,200	4,984
West Bengal	12,645	9,767	12,192	9,013	12,187	9,928	11,457	9,484
Sikkim	111	66	104	67	99	59	90	54
Andaman-Nicobar	68	54	70	51	63	44	64	47
Eastern Region	**31,435**	**25,527**	**31,054**	**25,272**	**31,488**	**26,967**	**30,384**	**25,694**
Arunachal Pradesh	186	104	198	115	170	117	186	120
Assam	2,012	1,380	2,405	1,516	2,392	1,656	2,524	1,845
Manipur	214	118	227	115	225	130	213	112
Meghalaya	409	230	396	215	330	229	359	233
Mizoram	130	78	130	77	126	73	130	79
Nagaland	166	93	177	108	184	120	189	127
Tripura	363	232	386	221	353	226	359	247
North-Eastern Region	**3,337**	**2,235**	**3,652**	**2,367**	**3,579**	**2,553**	**3,764**	**2,764**

Month-wise details of the State/UT-wise Peak Demand and Average Demand

State /	August,2024		September,2024		October,2024		November,2024	
System /	Peak Demand	Average Demand	Peak Demand	Average Demand	Peak Demand	Average Demand	Peak Demand	Average Demand
Region	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)
Chandigarh	418	288	397	262	298	189	221	151
Delhi	6,890	5,294	6,785	4,927	6,161	4,360	4,259	3,116
Haryana	12,703	9,690	12,414	8,965	11,087	8,281	7,848	6,030
Himachal Pradesh	1,732	1,554	1,884	1,603	1,947	1,494	2,107	1,466
UT of J&K and Ladakh	2,726	2,083	3,236	2,186	3,068	2,026	2,836	2,282
Punjab	15,307	12,319	15,310	11,749	14,311	8,364	8,755	5,892
Rajasthan	13,409	10,463	16,292	12,343	16,206	13,225	17,434	13,375
Uttar Pradesh	29,126	22,056	29,347	20,114	26,756	19,279	19,929	14,623
Uttarakhand	2,482	2,025	2,564	1,974	2,412	1,816	2,249	1,616
Northern Region	**77,380**	**65,954**	**80,678**	**64,313**	**73,686**	**59,218**	**61,028**	**48,737**
Chhattisgarh	5,478	4,494	5,873	4,933	5,916	5,232	4,580	3,826
Gujarat	21,918	15,815	24,205	16,630	22,092	16,578	21,493	16,002
Madhya Pradesh	11,822	9,872	12,677	10,231	13,610	10,879	17,941	13,141
Maharashtra	28,074	20,236	30,049	21,157	26,632	21,854	27,845	22,353
Dadra & Nagar Haveli and Daman & Diu	1,321	1,209	1,356	1,249	1,390	1,253	1,343	1,209
Goa	690	589	718	573	741	615	743	605
Western Region	**67,019**	**53,481**	**69,843**	**56,006**	**68,640**	**57,721**	**72,959**	**58,454**
Andhra Pradesh	11,830	9,178	12,436	8,903	11,545	8,556	11,024	8,555
Telangana	15,573	10,923	15,470	9,670	14,003	9,619	11,209	8,297
Karnataka	12,580	8,864	16,061	9,618	12,850	8,495	14,853	9,798
Kerala	4,247	3,337	4,545	3,433	4,440	3,449	4,489	3,500
Tamil Nadu	17,843	14,777	19,171	15,838	17,835	13,843	16,570	13,152
Puducherry	514	420	536	433	501	400	465	376
Lakshadweep	11	7	12	7	11	7	11	7
Southern Region	**57,854**	**47,505**	**64,921**	**47,898**	**58,678**	**44,366**	**53,831**	**43,684**
Bihar	7,666	5,926	8,078	5,613	7,224	5,438	6,076	3,910
DVC	3,552	2,914	3,579	2,979	3,456	2,931	3,172	2,712
Jharkhand	2,107	1,720	2,161	1,734	2,210	1,754	2,033	1,560
Odisha	5,938	4,927	6,078	5,108	6,229	5,341	5,705	4,261
West Bengal	10,784	8,647	11,804	8,927	11,250	8,023	8,765	6,505
Sikkim	116	51	95	54	101	54	112	63
Andaman-Nicobar	64	47	68	49	67	46	65	47
Eastern Region	**28,798**	**24,191**	**27,798**	**24,420**	**29,521**	**23,547**	**25,930**	**19,017**
Arunachal Pradesh	195	133	194	129	170	101	167	109
Assam	2,617	1,854	2,812	1,945	2,266	1,440	1,850	1,231
Manipur	214	100	236	108	227	108	233	110
Meghalaya	346	232	318	189	355	208	370	258
Mizoram	152	73	148	78	136	76	145	78
Nagaland	183	108	184	118	176	104	178	100
Tripura	344	282	376	246	333	230	310	183
North-Eastern Region	**3,861**	**2,781**	**3,959**	**2,813**	**3,487**	**2,269**	**3,151**	**2,070**

Month-wise details of the State/UT-wise Peak Demand and Average Demand

State / System / Region	December,2024		January,2025		February,2025		March,2025	
	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)	Peak Demand (MW)	Average Demand (MW)
Chandigarh	283	173	312	185	265	160	229	147
Delhi	5,213	3,174	5,655	3,476	4,657	3,038	4,361	3,117
Haryana	9,351	6,216	9,157	6,351	9,602	6,538	8,750	6,108
Himachal Pradesh	2,254	1,624	2,273	1,606	2,193	1,579	2,075	1,419
UT of J&K and Ladakh	3,157	2,658	3,148	2,795	3,057	2,574	3,095	2,483
Punjab	9,381	6,295	9,869	6,388	10,165	6,371	10,083	6,522
Rajasthan	18,643	13,422	18,752	13,601	19,165	14,361	17,763	12,478
Uttar Pradesh	20,666	13,903	22,034	15,193	20,456	14,762	21,869	15,470
Uttarakhand	2,504	1,790	2,568	1,829	2,477	1,761	2,202	1,626
Northern Region	**68,491**	**49,430**	**69,164**	**51,599**	**68,573**	**51,305**	**65,384**	**49,381**
Chhattisgarh	5,169	4,144	5,906	4,776	6,181	5,557	6,511	5,949
Gujarat	22,461	16,577	23,929	16,851	23,780	17,868	24,395	18,329
Madhya Pradesh	19,371	13,530	18,593	13,608	18,596	14,525	16,622	12,246
Maharashtra	28,632	22,800	29,836	23,722	30,151	25,169	30,675	26,023
Dadra & Nagar Haveli and Daman & Diu	1,362	1,251	1,353	1,242	1,356	1,264	1,377	1,245
Goa	749	595	754	598	766	631	810	681
Western Region	**77,574**	**60,168**	**80,613**	**62,069**	**80,861**	**66,283**	**78,082**	**65,994**
Andhra Pradesh	10,526	7,960	12,087	8,512	12,737	9,751	13,108	10,194
Telangana	14,375	10,078	15,205	10,974	16,601	12,515	17,162	13,210
Karnataka	15,353	9,910	17,757	11,742	18,350	13,202	18,398	13,973
Kerala	4,466	3,419	4,515	3,499	5,006	3,751	5,341	4,061
Tamil Nadu	15,997	12,776	16,992	13,101	18,322	15,160	19,679	15,998
Puducherry	453	348	423	344	449	377	483	410
Lakshadweep	12	8	12	8	12	8	13	9
Southern Region	**57,460**	**44,495**	**64,947**	**48,177**	**68,706**	**54,760**	**69,938**	**57,851**
Bihar	5,252	3,737	5,702	4,142	5,388	4,010	6,148	4,324
DVC	3,605	2,842	3,708	2,925	3,649	2,885	3,662	2,917
Jharkhand	2,051	1,571	2,103	1,632	2,026	1,621	2,108	1,684
Odisha	5,024	3,983	5,203	4,206	5,435	4,499	5,965	4,950
West Bengal	7,197	5,798	7,789	6,376	8,270	6,814	10,675	8,182
Sikkim	126	78	138	82	137	86	121	73
Andaman-Nicobar	64	47	64	46	64	52	71	53
Eastern Region	**22,929**	**18,015**	**23,778**	**19,371**	**23,887**	**19,923**	**27,760**	**22,138**
Arunachal Pradesh	167	118	196	127	218	140	180	127
Assam	1,537	1,108	1,577	1,146	1,644	1,183	1,911	1,271
Manipur	269	151	267	154	248	145	213	129
Meghalaya	378	270	393	275	352	231	343	232
Mizoram	162	93	168	94	160	90	151	84
Nagaland	173	106	171	100	173	104	164	98
Tripura	239	215	234	172	252	184	318	214
North-Eastern Region	**2,912**	**2,062**	**2,990**	**2,069**	**2,890**	**2,079**	**3,276**	**2,156**

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ANNEXURE-III

ANNEXURE REFERRED IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 1754 ANSWERED IN THE RAJYA SABHA ON 04.08.2025

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The details of the transmission system (220 kV and above) as on 30.06.2025 under Inter-State and Intra- State Transmission System:

	Inter-State Transmission System	**Intra-State Transmission System**
Transmission lines (ckm)	2,14,677	2,80,728
Transformation Capacity (MVA)	5,68,205	7,91,498

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