

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-wise and national (average) over the last three years;
- (b) the daily variance in peak power demand and average demand, provide State-wise, the details thereof;
- (c) steps being taken by Government to ensure availability of power during the peak load events; 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 the steps 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.

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

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

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

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

State /	April,2022		May,2022		June,2022		July,2022	
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	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	Average Demand	Peak Demand	Average Demand	Peak Demand	Average Demand	Peak Demand	Average Demand
	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(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 /	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	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	Average Demand	Peak Demand	Average Demand	Peak Demand	Average Demand	Peak Demand	Average Demand
	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(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	Average Demand	Peak Demand	Average Demand	Peak Demand	Average Demand	Peak Demand	Average Demand
	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(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 /	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	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	Average Demand	Peak Demand	Average Demand	Peak Demand	Average Demand	Peak Demand	Average Demand
	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(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 /	December,2024		January,2025		February,2025		March,2025	
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	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

ANNEXURE-III

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

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
