

**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.1536  
TO BE ANSWERED ON 24.11.2016**

**DEMAND AND SUPPLY OF POWER**

**†1536. SHRI ARVIND SAWANT:  
SHRIMATI REKHA VERMA:  
SHRI GOPAL SHETTY:**

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

- (a) the details of the per capita demand and supply of power during peak hours and non-peak hours in the country during the last three years and the current year;**
- (b) whether the generation of power from various sources has been in keeping with the demand of power in the country during the said period;**
- (c) if not, the details thereof and the reasons therefor, State/UT-wise;**
- (d) whether the Union Government has taken any steps to ensure 24 hour power supply to all areas of the country in the next five years; and**
- (e) if so, the details thereof and the details of the progress made in this regard so far?**

**A N S W E R**

**THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER,  
COAL, NEW & RENEWABLE ENERGY AND MINES**

**( SHRI PIYUSH GOYAL )**

**(a) : The details of All India and state-wise annual electricity demand and supply during peaking period and the energy requirement and availability which covers peaking as well as non peaking period in each of the last three years and the current year is given at Annex-I. The details of All India and state-wise per capita electricity consumption during the last three years is given at Annex-II.**

**(b) & (c) : Yes, madam.**

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**(d) & (e) : The following steps have been taken to ensure 24 hours power supply to all areas of the country in the next five years:**

- (i) During the 12<sup>th</sup> Plan period (2012-17), a capacity addition of about 88928.2 MW against the target of 88537 MW from conventional sources have been achieved till 31<sup>st</sup> October, 2016 and about 21,128 MW against the target of 30000 MW from renewable sources have been achieved till 30<sup>th</sup> September, 2016.**
- (ii) Adequate supply of the domestic coal to power plants has been ensured. The growth of domestic coal supply to power plants has been around 6.2% during 2015-16.**
- (iii) During the 12<sup>th</sup> Plan period (2012-17), 1,00,468 ckm against the target of 1,07,440 ckm of transmission lines and 2,88,458 MVA against the target of 2,82,750 MVA of transformation capacity have been completed till 31<sup>st</sup> October, 2016.**
- (iv) Government of India has taken an initiative to prepare State specific Action Plans for providing 24X7 Power For All (PFA) in partnership with the States.**
- (v) Two new schemes have been launched by the Government of India, namely, Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) and Integrated Power Development Scheme (IPDS) for strengthening of sub-transmission and distribution networks and for segregation of agricultural feeders to give adequate and reliable supply and reduce line losses.**
- (vi) Government of India has taken several steps to promote energy conservation, energy efficiency and other demand side management measures.**
- (vii) The Central Government has notified Ujjwal Discom Assurance Yojana (UDAY) scheme on 20.11.2015 for Operational & Financial Turnaround of DISCOMs.**
- (viii) Government of India has taken steps for expeditious resolution of issues relating to Environmental and forest clearances for facilitating early completion of generation and transmission projects.**
- (ix) Government of India has launched a scheme by providing support from Power System Development Fund (PSDF) for operationalisation of stranded gas based generation.**

**ANNEX REFERRED TO IN REPLY TO PARTS (a) OF UNSTARRED QUESTION NO. 1536 TO BE ANSWERED IN THE LOK SABHA ON 24.11.2016.**

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**Power Supply Position for April-October, 2016\***

State / System / Region	Energy Requirement	Energy Availability	Surplus/Deficit (-)		Peak Requirement	Peak Availability	Surplus / Deficit (-)	
	(MU)	(MU)	(MU)	(%)	(MW)	(MW)	(MW)	(%)
Chandigarh	1,135	1,135	0	0	361	361	0	0
Delhi	21,666	21,639	-27	-0.1	6,342	6,261	-81	-1.3
Haryana	32,179	32,179	0	0.0	9,262	9,262	0	0.0
Himachal Pradesh	5,142	5,113	-29	-0.6	1,342	1,342	0	0.0
Jammu & Kashmir	9,737	7,929	-1,808	-18.6	2,480	2,102	-378	-15.2
Punjab	37,557	37,557	0	0.0	11,408	11,408	0	0.0
Rajasthan	38,538	38,351	-187	-0.5	9,906	9,906	0	0.0
Uttar Pradesh	65,677	64,217	-1,460	-2.2	17,183	15,501	-1,682	-9.8
Uttarakhand	7,943	7,899	-44	-0.6	2,020	1,972	-48	-2.4
Northern Region	219,575	216,020	-3,555	-1.6	53,372	52,612	-760	-1.4
Chhattisgarh	14,724	14,671	-53	-0.4	3,875	3,851	-25	-0.6
Gujarat	62,059	62,059	0	0.0	14,724	14,708	-16	-0.1
Madhya Pradesh	35,799	35,798	-1	0.0	8,832	8,832	0	0.0
Maharashtra	80,875	80,838	-37	0.0	20,499	20,462	-37	-0.2
Daman & Diu	1,434	1,434	0	0.0	327	327	0	0.0
Dadra Nagar Haveli	3,620	3,620	0	0.0	784	784	0	0.0
Goa	2,857	2,855	-2	-0.1	497	496	-1	-0.3
Western Region	201,368	201,278	-90	0.0	46,123	46,090	-33	-0.1
Andhra Pradesh	31,471	31,435	-36	-0.1	7,969	7,965	-4	-0.1
Telangana	29,538	29,532	-6	0.0	8,284	8,284	0	0.0
Karnataka	37,114	36,828	-286	-0.8	9,980	9,567	-413	-4.1
Kerala	14,107	14,084	-23	-0.2	4,132	3,996	-135	-3.3
Tamil Nadu	63,324	63,313	-11	0.0	14,823	14,823	0	0.0
Puducherry	1,545	1,544	-1	-0.1	371	368	-3	-0.7
Lakshadweep#	28	28	0	0	8	8	0	0
Southern Region	177,100	176,734	-366	-0.2	41,298	41,259	-39	-0.1
Bihar	16,025	15,766	-259	-1.6	3,843	3,638	-205	-5.3
DVC	10,829	10,775	-54	-0.5	2,686	2,686	0	0.0
Jharkhand	4,673	4,662	-11	-0.2	1,498	1,498	0	0.0
Odisha	16,243	16,241	-2	0.0	4,012	4,012	0	0.0
West Bengal	30,916	30,813	-103	-0.3	7,881	7,881	0	0.0
Sikkim	270	270	0	0.0	153	112	-41	-26.8
Andaman-Nicobar Islands	140	105	-35	-25	40	32	-8	-20
Eastern Region	78,958	78,527	-431	-0.5	18,642	18,596	-46	-0.2
Arunachal Pradesh	407	397	-10	-2.5	148	140	-8	-5.4
Assam	5,730	5,481	-249	-4.3	1,673	1,633	-40	-2.4
Manipur	418	399	-19	-4.5	152	151	-1	-0.7
Meghalaya	970	970	0	0.0	311	311	0	0.0
Mizoram	278	270	-8	-2.9	95	95	0	0.0
Nagaland	438	429	-9	-2.1	130	130	0	0.0
Tripura	861	845	-16	-1.9	284	284	0	0.0
North-Eastern Region	9,099	8,785	-314	-3.5	2,487	2,475	-12	-0.5
All India	686,099	681,346	-4,753	-0.7	159,542	156,934	-2,608	-1.6

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and availability

\* October' 2016- Provisional data

### Power Supply Position for 2015-16

State / System / Region	Energy Requirement	Energy Availability	Surplus/Deficit(-)		Peak Requirement	Peak Availability	Surplus/Deficit(-)	
	(MU)	(MU)	(MU)	(%)	(MW)	(MW)	(MW)	(%)
Chandigarh	1,607	1,607	0	0	342	342	0	0
Delhi	29,626	29,583	-43	-0.1	5,846	5,846	0	0.0
Haryana	47,506	47,437	-69	-0.1	9,113	9,113	0	0.0
Himachal Pradesh	8,821	8,758	-63	-0.7	1,488	1,488	0	0.0
Jammu & Kashmir	16,572	14,037	-2,535	-15.3	2,544	2,158	-386	-15.2
Punjab	49,687	49,675	-12	0.0	10,852	10,852	0	0.0
Rajasthan	67,417	67,205	-212	-0.3	10,961	10,961	0	0.0
Uttar Pradesh	106,351	93,033	-13,318	-12.5	16,988	14,503	-2,485	-14.6
Uttarakhand	12,889	12,675	-214	-1.7	2,034	2,034	0	0.0
Northern Region	340,476	324,009	-16,467	-4.8	54,474	50,622	-3,852	-7.1
Chhattisgarh	25,649	25,309	-340	-1.3	3,932	3,757	-175	-4.5
Gujarat	103,544	103,540	-4	0.0	14,495	14,448	-47	-0.3
Madhya Pradesh	62,374	62,374	0	0.0	10,902	10,902	0	0.0
Maharashtra	141,817	141,361	-456	-0.3	20,973	20,594	-379	-1.8
Daman & Diu	2,337	2,337	0	0.0	307	307	0	0.0
Dadra Nagar Haveli	5,925	5,925	0	0.0	740	740	0	0.0
Goa	5,120	5,119	-1	0.0	583	552	-31	-5.3
Western Region	346,768	345,966	-802	-0.2	48,640	48,199	-441	-0.9
Andhra Pradesh	50,436	50,366	-70	-0.1	7,400	7,391	-9	-0.1
Telangana	50,254	49,948	-306	-0.6	6,854	6,849	-5	-0.1
Karnataka	64,302	60,971	-3,331	-5.2	10,202	9,508	-694	-6.8
Kerala	23,318	23,194	-124	-0.5	3,977	3,856	-121	-3.1
Tamil Nadu	97,276	96,586	-690	-0.7	14,190	14,171	-19	-0.1
Puducherry	2,437	2,429	-8	-0.3	368	352	-16	-4.3
Lakshadweep	48	48	0	0	8	8	0	0
Southern Region	288,025	283,494	-4,531	-1.6	40,030	39,875	-155	-0.4
Bihar	23,961	23,659	-302	-1.3	3,735	3,484	-251	-6.7
DVC	18,437	18,234	-203	-1.1	2,814	2,794	-20	-0.7
Jharkhand	7,735	7,561	-174	-2.2	1,153	1,153	0	0.0
Odisha	26,762	26,600	-162	-0.6	4,091	4,091	0	0.0
West Bengal	47,359	47,194	-165	-0.3	7,905	7,885	-20	-0.3
Sikkim	399	399	0	0.0	109	109	0	0.0
Andaman-Nicobar Islands	240	180	-60	-25	40	32	-8	-20
Eastern Region	124,654	123,646	-1,008	-0.8	18,169	18,056	-113	-0.6
Arunachal Pradesh	626	591	-35	-5.6	139	135	-4	-2.9
Assam	8,762	8,272	-490	-5.6	1,491	1,378	-113	-7.6
Manipur	840	810	-30	-3.6	168	167	-1	-0.6
Meghalaya	1,833	1,725	-108	-5.9	400	377	-23	-5.8
Mizoram	471	455	-16	-3.4	102	101	-1	-1.0
Nagaland	755	739	-16	-2.1	140	138	-2	-1.4
Tripura	1,202	1,146	-56	-4.7	300	269	-31	-10.3
North-Eastern Region	14,488	13,735	-753	-5.2	2,573	2,367	-206	-8.0
All India	1,114,408	1,090,850	-23,558	-2.1	153,366	148,463	-4,903	-3.2

### Power Supply Position for 2014-15

State / System / Region	Energy Requirement	Energy Availability	Surplus/Deficit (-)		Peak Requirement	Peak Availability	Surplus /Deficit(-)	
	(MU)	(MU)	(MU)	(%)	(MW)	(MW)	(MW)	(%)
Chandigarh	1,616	1,616	0	0	367	367	0	0
Delhi	29,231	29,106	-125	-0.4	6,006	5,925	-81	-1.3
Haryana	46,615	46,432	-183	-0.4	9,152	9,152	0	0.0
Himachal Pradesh	8,807	8,728	-79	-0.9	1,422	1,422	0	0.0
Jammu & Kashmir	16,214	13,119	-3,095	-19.1	2,554	2,043	-511	-20.0
Punjab	48,629	48,144	-485	-1.0	11,534	10,023	-1,511	-13.1
Rajasthan	65,717	65,310	-407	-0.6	10,642	10,642	0	0.0
Uttar Pradesh	103,179	87,062	-16,117	-15.6	15,670	13,003	-2,667	-17.0
Uttarakhand	12,445	12,072	-373	-3.0	1,930	1,930	0	0.0
Northern Region	332,453	311,589	-20,864	-6.3	51,977	47,642	-4,335	-8.3
Chhattisgarh	21,499	21,230	-269	-1.3	3,817	3,638	-179	-4.7
Gujarat	96,235	96,211	-24	0.0	13,603	13,499	-104	-0.8
Madhya Pradesh	53,374	53,082	-292	-0.5	9,755	9,717	-38	-0.4
Maharashtra	134,897	133,078	-1,819	-1.3	20,147	19,804	-343	-1.7
Daman & Diu	2,086	2,086	0	0.0	301	301	0	0.0
Dadra Nagar Haveli	5,307	5,304	-3	-0.1	714	714	0	0.0
Goa	3,969	3,932	-37	-0.9	501	489	-12	-2.4
Western Region	317,367	314,923	-2,444	-0.8	44,166	43,145	-1,021	-2.3
Andhra Pradesh	59,198	56,313	-2,885	-4.9	7,144	6,784	-360	-5.0
Telangana	43,337	40,644	-2,693	-6.2	7,884	6,755	-1,129	-14.3
Karnataka	62,643	59,926	-2,717	-4.3	10,001	9,549	-452	-4.5
Kerala	22,459	22,127	-332	-1.5	3,760	3,594	-166	-4.4
Tamil Nadu	95,758	92,750	-3,008	-3.1	13,707	13,498	-209	-1.5
Puducherry	2,402	2,376	-26	-1.1	389	348	-41	-10.5
Lakshadweep	48	48	0	0	8	8	0	0
Southern Region	285,797	274,136	-11,661	-4.1	39,094	37,047	-2,047	-5.2
Bihar	19,294	18,759	-535	-2.8	2,994	2,874	-120	-4.0
DVC	18,222	17,728	-494	-2.7	2,653	2,590	-63	-2.4
Jharkhand	7,599	7,390	-209	-2.8	1,075	1,055	-20	-1.9
Odisha	26,482	26,052	-430	-1.6	3,920	3,892	-28	-0.7
West Bengal	47,086	46,827	-259	-0.6	7,544	7,524	-20	-0.3
Sikkim	399	399	0	0.0	83	83	0	0.0
Andaman-Nicobar Islands	240	180	-60	-25	40	32	-8	-20
Eastern Region	119,082	117,155	-1,927	-1.6	17,040	16,932	-108	-0.6
Arunachal Pradesh	677	610	-67	-9.9	139	126	-13	-9.4
Assam	8,527	7,926	-601	-7.0	1,450	1,257	-193	-13.3
Manipur	705	678	-27	-3.8	150	146	-4	-2.7
Meghalaya	1,930	1,634	-296	-15.3	370	367	-3	-0.8
Mizoram	455	425	-30	-6.6	90	88	-2	-2.2
Nagaland	688	661	-27	-3.9	140	128	-12	-8.6
Tripura	1,242	1,048	-194	-15.6	310	266	-44	-14.2
North-Eastern Region	14,224	12,982	-1,242	-8.7	2,528	2,202	-326	-12.9
All India	1,068,923	1,030,785	-38,138	-3.6	148,166	141,160	-7,006	-4.7

### Power Supply Position for 2013-14

State / System / Region	Energy Requirement	Energy Availability	Surplus/Deficit (-)		Peak Requirement	Peak Availability	Surplus / Deficit(-)	
	(MU)	(MU)	(MU)	(%)	(MW)	(MW)	(MW)	(%)
Chandigarh	1,574	1,574	0	0	345	345	0	0
Delhi	26,867	26,791	-76	-0.3	6,035	5,653	-382	-6.3
Haryana	43,463	43,213	-250	-0.6	8,114	8,114	0	0.0
Himachal Pradesh	9,089	8,883	-206	-2.3	1,561	1,392	-169	-10.8
Jammu & Kashmir	15,613	12,187	-3,426	-21.9	2,500	1,998	-502	-20.1
Punjab	47,821	47,084	-737	-1.5	10,089	8,733	-1,356	-13.4
Rajasthan	58,202	58,042	-160	-0.3	10,047	10,038	-9	-0.1
Uttar Pradesh	94,890	81,613	-13,277	-14.0	13,089	12,327	-762	-5.8
Uttarakhand	11,944	11,493	-451	-3.8	1,826	1,826	0	0.0
Northern Region	309,463	290,880	-18,583	-6.0	45,934	42,774	-3,160	-6.9
Chhattisgarh	18,932	18,800	-132	-0.7	3,365	3,320	-45	-1.3
Gujarat	88,497	88,488	-9	0.0	12,201	12,201	0	0.0
Madhya Pradesh	49,410	49,385	-25	-0.1	9,716	9,716	0	0.0
Maharashtra	126,288	123,672	-2,616	-2.1	19,276	17,621	-1,655	-8.6
Daman & Diu	2,252	2,252	0	0.0	322	297	-25	-7.8
Dadra Nagar Haveli	5,390	5,388	-2	0.0	661	661	0	0.0
Goa	3,890	3,871	-19	-0.5	529	529	0	0.0
Western Region	294,659	291,856	-2,803	-1.0	41,335	40,331	-1,004	-2.4
Andhra Pradesh	95,662	89,036	-6,626	-6.9	14,072	13,162	-910	-6.5
Karnataka	64,150	58,052	-6,098	-9.5	9,940	9,223	-717	-7.2
Kerala	21,577	21,052	-525	-2.4	3,671	3,573	-98	-2.7
Tamil Nadu	93,508	87,980	-5,528	-5.9	13,522	12,492	-1,030	-7.6
Pondicherry	2,344	2,320	-24	-1.0	351	333	-18	-5.1
Lakshadweep#	48	48	0	0	9	9	0	0
Southern Region	277,245	258,444	-18,801	-6.8	39,015	36,048	-2,967	-7.6
Bihar	15,391	14,759	-632	-4.1	2,465	2,312	-153	-6.2
DVC	17,407	17,296	-111	-0.6	2,745	2,745	0	0.0
Jharkhand	7,143	7,007	-136	-1.9	1,111	1,069	-42	-3.8
Orissa	24,958	24,546	-412	-1.7	3,727	3,722	-5	-0.1
West Bengal	42,891	42,762	-129	-0.3	7,325	7,294	-31	-0.4
Sikkim	413	413	0	0.0	90	90	0	0.0
Andaman-Nicobar Islands	240	180	-60	-25	40	32	-8	-20
Eastern Region	108,203	106,783	-1,420	-1.3	15,888	15,598	-290	-1.8
Arunachal Pradesh	552	517	-35	-6.3	125	124	-1	-0.8
Assam	7,544	7,062	-482	-6.4	1,329	1,220	-109	-8.2
Manipur	579	548	-31	-5.4	134	133	-1	-0.7
Meghalaya	1,794	1,604	-190	-10.6	343	330	-13	-3.8
Mizoram	446	430	-16	-3.6	84	82	-2	-2.4
Nagaland	577	561	-16	-2.8	109	106	-3	-2.8
Tripura	1,195	1,144	-51	-4.3	254	250	-4	-1.6
North-Eastern Region	12,687	11,866	-821	-6.5	2,164	2,048	-116	-5.4
All India	1,002,257	959,829	-42,428	-4.2	135,918	129,815	-6,103	-4.5

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and availability.

Note: Both peak met and energy availability represent the net consumption (including the transmission losses) in the various States. Net export has been accounted for in the consumption of importing States.

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**ANNEX REFERRED TO IN REPLY TO PARTS (a) OF UNSTARRED QUESTION NO. 1536 TO BE ANSWERED IN THE LOK SABHA ON 24.11.2016.**

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**PER CAPITA CONSUMPTION (kWh)**

State/UTs	2013-14	2014-15	2015-16
Chandigarh	1133	1052	1112
Delhi	1446	1561	1557
Haryana	1773	1909	1936
Himachal Pradesh	1348	1336	1339
Jammu & Kashmir	1066	1169	1234
Punjab	1810	1858	1919
Rajasthan	1011	1123	1164
Uttar Pradesh	472	502	524
Uttarakhand	1285	1358	1431
Chhattisgarh	1601	1719	2022
Gujarat	1973	2105	2248
Madhya Pradesh	764	813	929
Maharashtra	1183	1257	1318
Daman & Diu	8003	6960	7836
Dadra & Nagar Haveli	14515	13769	15137
Goa	2198	1803	2738
Andhra Pradesh	1196	1040	1230
Telangana		1356	1439
Karnataka	1179	1211	1242
Kerala	645	672	704
Tamil Nadu	1544	1616	1688
Puducherry	1692	1655	1672
Lakshadweep	665	657	649
Bihar	160	203	258
Jharkhand	810	835	884
Odisha	1349	1419	1564
West Bengal	609	647	660
Sikkim	700	685	687
Andaman-Nicobar Islands	368	361	355
Arunachal Pradesh	503	525	600
Assam	280	314	322
Manipur	266	295	360
Meghalaya	684	704	835
Mizoram	445	449	503
Nagaland	259	311	346
Tripura	331	303	329
All India	957	1010	1075

**Note: Per Capita Consumption=(Gross Energy Generation + Net Import)/Mid Year Population.**

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