

**GOVERNMENT OF INDIA  
MINISTRY OF POWER  
LOK SABHA  
UNSTARRED QUESTION NO.895  
ANSWERED ON 07.12.2023**

**MODERNIZATION AND RESTRUCTURING OF ELECTRICITY MARKET**

**895. DR. MANOJ RAJORIA:  
SHRI SUNIL BABURAO MENDHE:  
DR. DHAL SINGH BISEN:  
SHRI SUMEDHANAND SARASWATI:  
SHRIMATI HIMADRI SINGH:  
SHRI RAJESH VERMA:  
SHRI SUDHAKAR TUKARAM SHRANGARE:  
SHRI RAJENDRA AGRAWAL:  
SHRI MOHANBHAI KALYANJI KUNDARIYA:  
SHRI DILIP SAIKIA:  
SHRI PARVESH SAHIB SINGH VERMA:  
SHRIMATI RANJEETA KOLI:  
SHRI KRIPANATH MALLAH:**

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

- (a) the quantum of power that has been produced in the country annually during the last five years, State/UT-wise including Delhi;**
- (b) the details of insights into the technological advancements and innovations implemented in the electricity market restructuring to accommodate the integration of renewable energy sources more efficiently;**
- (c) the details of the initiatives Government has implemented to modernise and restructure the nation's electricity market particularly to facilitate the seamless integration of renewable energy sources into the power grid and ensuring optimal utilisation of electricity generation resources;**
- (d) the manner in which the Government encourage private sector participation and investment in the modernization and restructuring of the electricity market; and**
- (e) the details of the corrective measures taken by the Government to ensure the financial stability of the power sector, including DISCOMs, electricity consumers and power generation companies?**

**A N S W E R**

**THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY**

**(SHRI R.K. SINGH)**

**(a) to (e) : The State/UT-wise details of quantum of power generated in the country (including Delhi) during the last five years and current year 2023-24 (till October'23) is given at Annexure. It will be seen that the demand has gone up by 50.8 percent in energy terms from 2013-14 to 2022-23. The peak demand has gone up from 136 GW in 2013-14 to 243 GW in September, 2023. We have been able to meet the increase in demand because we added 194 GW of capacity between 2014 to 2023.**

**.....2.**

**We also added 192000 cKt kms of transmission line during the same period connecting the whole country into one grid and one national market.**

**We have introduced new products in the Exchange for Renewable Energy such as the Green Day Ahead Market and the Green Term Ahead Market.**

**We have one of the fastest Renewable Energy Capacities in the world and have emerged as the most favoured destination for investment in Renewables in the world. We have constructed Green Energy Corridors and put in place 13 Renewable Energy Management Centres. Today our Renewable Energy Capacity is 178000 MW and 99000 MW is under installation.**

**We have made the power sector viable. The AT&C losses have come down from 22.62% in 2013-14 to 16.42% in 2021-22. All current payment of Gencos are up-to-date and the legacy dues of Gencos have come down from Rs. 1.35 lakh crore to Rs. 6000 Crore. The subsidy payment to DISCOMS on account of subsidies announced by State Government are up-to-date.**

**In order to reduce the AT&C losses the Government of India implemented the following steps:**

- (i) Provided funds under DDUGJY and IPDS to install meter on unmetered connections; and installed covered wire in loss prone areas to make theft difficult;**
- (ii) Put in place energy accounting and energy audit system;**
- (iii) Revised prudential norms to ensure that no loans are given by REC/PFC to DISCOMs which are making losses, unless they draw up a plan to reduce the losses, get their State Government approval on it and file it with the Government of India; and follow up on these steps;**
- (iv) Put in place a merit order despatched system to ensure that cheaper power is despatched first;**
- (v) Reduced the late payment surcharge to reduce the burden on the DISCOMs;**
- (vi) Put in place rules to ensure that if the Genco is not paid for the power supplied, the areas of the defaulting DISCOMs is automatically cut off;**
- (vii) Put in place an incentive of an additional borrowing space of 0.5% of GDP if the DISCOMs puts in place loss reduction measures;**
- (viii) Provided that no funds will be given under RDSS to loss making DISCOMs unless they put in place measures to reduce their losses; and**
- (ix) Put in place Rules to ensure that the tariff is up-to-date.**

**As a result of the above measures, the power sector has become viable and profitable.**

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## ANNEXURE

## ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (e) OF UNSTARRED QUESTION NO. 895 ANSWERED IN THE LOK SABHA ON 07.12.2023

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State/UT-wise including Delhi details of power generated in the country annually during the last five years and current year 2023-24(till October'23)

NAME OF STATE /UT	GENERATION in MUs					2023-24 (till October'23)
	2018-19	2019-20	2020-21	2021-22	2022-23	
Chandigarh	13.51	13.33	10.16	14.19	12.61	8.73
Delhi	7423.68	6438.78	5730.71	5407.30	4314.50	2804.93
Haryana	26097.79	18050.51	15657.13	24103.15	33559.00	18342.80
Himachal Pradesh	38196.48	43002.12	39633.77	38503.40	41579.93	31308.07
Jammu and Kashmir	16699.27	18537.25	17441.97	17489.83	17170.62	13209.89
Ladakh	154.51	270.28	376.21	405.98	402.78	307.32
Punjab	33144.86	28747.68	25606.29	31127.70	40075.40	26014.77
Rajasthan	68841.66	70291.34	70607.33	83997.41	105963.47	68911.79
Uttar Pradesh	128467.21	129323.42	132668.65	143159.29	163447.06	99968.15
Uttarakhand	16100.33	17735.27	15551.31	16216.77	16369.49	11157.01
Chhattisgarh	116659.43	119336.93	136667.58	143213.21	144839.62	95742.91
Gujarat	110557.53	124666.25	121859.71	87886.78	95017.30	80347.46
Madhya Pradesh	129934.92	129397.90	138084.97	143037.90	152020.26	94862.33
Maharashtra	151998.66	145404.00	131805.01	153065.31	158993.39	98334.71
Dadra and Nagar Haveli	5.76	6.19	11.96	49.16	30.62	16.15
Daman & Diu	18.94	21.83	40.04	47.67		
Goa	0.00	0.82	1.46	16.82	19.96	40.77
Andhra Pradesh	77694.33	76936.32	66882.90	74197.52	81701.42	54718.62
Telangana	56802.95	51923.14	46475.88	59279.66	63044.77	39944.96
Karnataka	28982.63	31114.50	34587.96	37951.72	37564.56	21690.70
Kerala	770.32	804.74	1092.12	1614.62	1961.28	1406.02
Tamil Nadu	17128.37	20019.68	21891.20	24312.41	27859.52	21597.02
Lakshadweep	83779.62	83498.68	70077.93	82020.39	89061.67	53845.69
Puducherry	49965.61	51858.96	48412.53	57188.93	56760.51	32898.77
Andaman Nicobar	151.16	113.49	157.99	152.01	252.45	215.43
Bihar	32658.66	35719.44	34092.75	44180.23	55489.06	34643.91
Jharkhand	27003.35	26247.21	27469.53	28915.39	30797.95	20728.50
Orissa	47477.80	49037.17	62944.21	66473.02	71529.15	41951.26
Sikkim	9050.18	11087.98	10935.46	11506.25	11709.14	8318.54
West Bengal	78438.25	75786.81	77478.05	88251.70	92995.30	55283.17
Arunachal Pradesh	1400.77	1788.70	3453.44	4163.41	4845.79	3329.00
Assam	7245.71	8089.14	6020.52	8398.89	9153.69	5760.77
Manipur	604.49	370.79	629.33	462.20	486.77	189.34
Meghalaya	980.04	1081.02	1208.78	886.50	1052.41	669.25
Mizoram	208.52	227.02	192.37	165.53	266.40	123.35
Nagaland	318.93	256.72	273.63	164.02	289.32	205.18
Tripura	6712.93	6121.04	7058.83	6339.87	7086.06	3897.81
Bhutan (IMP)	4406.62	5794.48	8765.50	7493.20	6742.40	4644.00
<b>All India Grand Total</b>	<b>1376095.79</b>	<b>1389120.93</b>	<b>1381855.15</b>	<b>1491859.37</b>	<b>1624465.61</b>	<b>1047439.04</b>

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