

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 782
ANSWERED ON 13.12.2022

**STATUS OF POWER GENERATION FROM NEW AND RENEWABLE ENERGY
SOURCES**

782. DR. K. KESHA RAO

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the comparative details of electricity generation capacity and currently installed capacity from new and renewable sources as on October 2022, State-wise; and
(b) whether there exists a gap between potential capacity and installed capacity, if so, the reasons therefor?

ANSWER

**THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER
(SHRI R.K. SINGH)**

(a) & (b) Bridging the gap between potential capacity and installed capacity of renewable energy is an on-going process.

Against an estimated potential of about 1636 GW, a total of 165.94 GW of renewable energy capacity (including Large Hydro) has been installed in the country as on 31.10.2022.

The state-wise details of renewable energy potential estimated for various renewable energy sources (including large hydro) in the country are given in **Annexure-I**.

The source-wise and state-wise details of the renewable energy capacity (including large hydro) installed in the country as on 31.10.2022 are given in **Annexure-II**.

Renewable energy installed capacity (including Large Hydro) has increased from 76.38 GW in March, 2014 to 165.94 GW in October, 2022. Further, In line with Hon'ble Prime Minister's announcement at COP26, Ministry of New and Renewable Energy is working towards achieving 500 GW of installed electricity capacity from non-fossil sources by 2030.

Annexure-I

Annexure-I referred to in reply to part (a) & (b) of Rajya Sabha Unstarred Question No. 782 for 13/12/2022 regarding 'Status of power generation from new and renewable energy sources'

State-wise details of renewable energy potential estimated for various renewable energy sources (including large hydro) in the country

(in MW)

State wise Estimated Potential										
Sl. No.	STATES / UTs	Wind Power	Small Hydro Power	Bio-Energy			Solar	Sub-Total	Large Hydro	Total including Large Hydro
				Biomass Power	Bagase Cogeneration	Waste To Energy				
		(MW) @ 120m	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)
1	Andhra Pradesh	74906	409.32	578	300	123	38440	114756	3261	118017.00
2	Arunachal Pradesh	274	2064.92	8			8650	10997	50064	61061.00
3	Assam	246	201.99	212		8	13760	14428	650	15078.00
4	Bihar	3650	526.98	619	300	73	11200	16369	40	16409.00
5	Chhatisgarh	348	1098.2	236		24	18270	19976	2202	22178.00
6	Goa	8	4.7	26			880	918	55	973.00
7	Gujarat	142560	201.97	1221	350	112	35770	180215	590	180805.00
8	Haryana	419	107.4	1333	350	24	4560	6793	64	6857.00
9	Himachal Pradesh	151	3460.34	142		2	33840	37595	18470	56065.00
10	Jammu & Kashmir	3	1707.45	43			111050	112803	13613	126416.00
11	Jharkhand	0	227.96	90		10	18180	18508	582	19090.00
12	Karnataka	124155	3726.49	1131	450		24700	154162	6459	160621.00
13	Kerala	2311	647.15	1044		36	6110	10149	3378	13527.00
14	Madhya Pradesh	15404	820.44	1364		78	61660	79326	1970	81296.00
15	Maharashtra	98213	786.46	1887	1250	287	64320	166744	3314	170058.00
16	Manipur	0	99.95	13		2	10630	10745	1761	12506.00
17	Meghalaya	1	230.05	11		2	5860	6104	2298	8402.00
18	Mizoram	0	168.9	1		2	9090	9261	2131	11392.00
19	Nagaland	0	182.18	10			7290	7482	1452	8934.00
20	Orissa	8346	286.22	246		22	25780	34681	2981	37662.00
21	Punjab	278	578.28	3172	300	45	2810	7183	971	8154.00
22	Rajasthan	127756	51.67	1039		62	142310	271219	483	271702.00
23	Sikkim	0	266.64	2			4940	5209	4248	9457.00
24	Tamil Nadu	68750	604.46	1070	450	151	17670	88695	1693	90388.00
25	Telangana	24835	102.25				20410	45347	1099	46446.00
26	Tripura	0	46.86	3		2	2080	2131	0	2131.00
27	Uttar Pradesh	101	460.75	1617	1250	176	22830	26434	664	27098.00
28	Uttarakhand	54	1664.31	24		5	16800	18547	17998	36545.00
29	West Bengal	1050	392.06	396		148	6260	8246	2829	11075.00
30	Andaman & Nicobar	1277	7.27				0	1284		1284.00
31	Chandigarh	0				6	0	6		6.00
32	Dadar & Nagar Haveli	0					0	0		0.00
33	Daman & Diu	0					0	0		0.00
34	Delhi	0				131	2050	2181		2181.00
35	Lakshwadeep	31					0	31		31.00
36	Pondicherry	382				3	0	385		385.00
37	Others					1022	790	1812		1812.00
	Total	695509	21133.62	17536.41	5000	2554	748990	1490723	145320	1636043.03

Annexure-II referred to in reply to part (a) & (b) of Rajya Sabha Unstarred Question No. 782 for 13/12/2022 regarding 'Status of power generation from new and renewable energy sources'

State-wise Installed Capacity of Renewable Energy as on 31.10.2022							
S. No.	STATES / Uts	Small Hydro Power	Wind Power	Bio Power	Solar Power	Large Hydro Power	Installed Capacity
		(MW)	(MW)	(MW)	(MW)	(MW)	(MW)
1	Andhra Pradesh	162.11	4096.65	566.04	4508.45	1610.00	10943.25
2	Arunachal Pradesh	133.11		0.00	11.23	1115.00	1259.34
3	Assam	34.11		2.00	147.93	350.00	534.04
4	Bihar	70.70		126.02	190.76		387.48
5	Chhatisgarh	76.00		275.00	803.43	120.00	1274.43
6	Goa	0.05		0.34	26.40		26.79
7	Gujarat	89.39	9809.32	110.73	8249.07	1990.00	20248.51
8	Haryana	73.50		258.88	968.67		1301.05
9	Himachal Pradesh	960.71		10.20	87.38	10263.02	11321.31
10	Jammu & Kashmir	144.68		0.00	48.90	3449.00	3642.58
11	Jharkhand	4.05		4.30	94.07	210.00	312.42
12	Karnataka	1280.73	5268.15	1902.15	7867.19	3689.20	20007.42
13	Kerala	266.52	62.50	2.50	653.96	1864.15	2849.63
14	Ladakh	39.64		0.00	7.80	0.00	47.44
15	Madhya Pradesh	123.71	2844.29	131.75	2763.44	2235.00	8098.19
16	Maharashtra	381.08	5012.83	2636.42	3501.41	3047.00	14578.74
17	Manipur	5.45		0.00	12.28	105.00	122.73
18	Meghalaya	32.53		13.80	4.16	322.00	372.49
19	Mizoram	41.47		0.00	8.02	60.00	109.49
20	Nagaland	31.67		0.00	3.04	75.00	109.71
21	Odisha	115.63		59.22	452.71	2154.55	2782.11
22	Punjab	176.10		498.94	1140.32	1096.30	2911.66
23	Rajasthan	23.85	4681.82	125.08	15562.03	411.00	20803.78
24	Sikkim	55.11		0.00	4.69	2282.00	2341.80
25	Tamil Nadu	123.05	9936.02	1042.70	6272.56	2178.20	19552.53
26	Telangana	90.87	128.10	219.74	4640.02	2405.60	7484.33
27	Tripura	16.01		0.00	16.30		32.31
28	Uttar Pradesh	49.10		2192.89	2392.78	501.60	5136.37
29	Uttarakhand	218.82		139.44	575.45	3975.35	4909.06
30	West Bengal	98.50		323.70	179.82	1341.20	1943.22
31	Andaman & Nicobar	5.25		0.00	29.91		35.16
32	Chandigarh			0.00	58.69		58.69
33	Dadar & Nagar Haveli			0.00	5.46		5.46
34	Daman & Diu			0.00	41.01		41.01
35	Delhi			59.00	211.12		270.12
36	Lakshwadeep			0.00	3.27		3.27
37	Pondicherry			0.00	35.53		35.53
38	Others		4.30	0.00	45.01		49.31
	Total (MW)	4923.50	41843.98	10700.84	61624.27	46850.17	165942.76