

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 1083**  
ANSWERED ON 26.07.2022

**CAPACITY OF RENEWABLE ENERGY**

1083. DR. WANWEIROY KHARLUKHI

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

- (a) India's capacity of renewable energy, year-wise from 2014 till date, including individual capacities of various sources of solar, hydro and wind powers;
- (b) whether Government has achieved the objective of increasing the capacity of renewable energy to 175 GW by this year, as per Niti Aayog's Strategy for New India @ 75 report 2019, and if not, the reasons therefor;
- (c) the details of measures being taken to increase indigenous manufacturing in the renewables industry, given that at least 80 per cent of such imports are from China; and
- (d) the comparison report and progress and potentiality in North East States, State-wise?

**ANSWER**

**THE MINISTER OF STATE OF NEW & RENEWABLE ENERGY AND CHEMICALS AND FERTILIZERS**

**(SHRI BHAGWANTH KHUBA)**

- (a): The year-wise and source-wise details of the cumulative renewable energy (RE) installed capacity in the country from 2014 are given below:-

Year-wise and source-wise details of the cumulative RE installed capacity since 2014 (in MW)				
Source	Solar	Wind	Small Hydro	Large hydro
As on 31.03.2014	2821.91	21042.58	3803.68	40531.41
As on 31.03.2015	3993.53	23354.36	4055.29	41267.43
As on 31.03.2016	7123.89	26777.41	4273.89	42783.42
As on 31.03.2017	12782.52	32279.78	4379.79	44478.42
As on 31.03.2018	22346.21	34145.00	4485.74	45293.42
As on 31.03.2019	29097.18	35625.97	4593.15	45399.22
As on 31.03.2020	35607.24	37743.75	4683.16	45699.22
As on 31.03.2021	41236.02	39247.05	4786.81	46209.22
As on 31.03.2022	53996.54	40357.58	4848.90	46722.52
As on 30.06.2022	57705.72	40788.03	4887.90	46850.17

(b) A total of 114.07 GW of renewable energy capacity (excluding large hydro) have been installed in the country as on 30-06-2022. Further, renewable energy projects of 60.66 GW capacity (excluding large hydro) are under various stages of implementation and 23.14 GW capacity are under various stages of bidding.

(c) In order to incentivize domestic manufacturing of Renewable Energy systems, the Government has taken a number of steps, including:

**Solar Energy:**

(i) Modified Special Incentive Package Scheme (M-SIPS) Scheme of Ministry of Electronics & Information Technology.

(ii) Production Linked Incentive (PLI) Scheme for High Efficiency Solar PV Modules.

(iii) Preference to 'Make in India' in Public Procurement in Renewable Energy Sector.

(iv) Domestic Content Requirement (DCR) under schemes such as CPSU Phase-II, PM-KUSUM, Solar Rooftop Phase-II, etc.

(v) Imposition of Basic Customs Duty on import of solar PV cells & modules.

**Wind Energy:**

(vi) Government have put in place a system of Revised List of Models and Manufacturers, and only equipment manufactured by manufacturers in the list is allowed to be used for Wind Energy Projects. It also mandates that Hub and Nacelle assembly / manufacturing facility shall be in India. More than 70 percent of the wind equipment is manufactured in India.

(d) The state-wise details of renewable energy potential estimated for various renewable energy sources (including large hydro) in the North East States & Sikkim are given in **Annexure-I**.

The state-wise and source-wise details of renewable energy installed capacity (including large hydro) in the North East States & Sikkim are given in **Annexure-II**.

\*\*\*\*\*

**Annexure-I**

Annexure-I referred to in reply to part (d) of Rajya Sabha Unstarred Question No. 1083 for 26/07/2022 regarding 'Capacity of renewable energy'

State-wise details of renewable energy potential estimated for various renewable energy sources (including large hydro) in the North East States & Sikkim

(In MW)							
Sl. No.	STATES / UTs	Wind Power @ 120m	Small Hydro Power	Bio-Energy	Solar	Large Hydro	Total including Large Hydro
1	Arunachal Pradesh	274	2064.92	8	8650	50064	61061
2	Assam	246	201.99	220	13760	650	15078
3	Manipur	0	99.95	15	10630	1761	12506
4	Meghalaya	1	230.05	13	5860	2298	8402
5	Mizoram	0	168.9	3	9090	2131	11393
6	Nagaland	0	182.18	10	7290	1452	8934
7	Sikkim	0	266.64	2	4940	4248	9457
8	Tripura	0	46.86	5	2080	0	2132
	<b>Total</b>	<b>521</b>	<b>3261.49</b>	<b>276</b>	<b>62300</b>	<b>62604</b>	<b>128962</b>

**Annexure-II**

Annexure-II referred to in reply to part (d) of Rajya Sabha Unstarred Question No. 1083 for 26/07/2022 regarding 'Capacity of renewable energy'

State-wise and source-wise details of renewable energy installed capacity (including large hydro) in the North East States & Sikkim as on 30.06.2022

(In MW)						
S. No.	STATES / UTs	Small Hydro Power	Bio Power	Solar Power	Large Hydro Power	Total Installed Capacity
1	Arunachal Pradesh	133.11		11.23	1115.00	1259.34
2	Assam	34.11	2.00	142.94	350.00	529.05
3	Manipur	5.45		12.26	105.00	122.71
4	Meghalaya	32.53	13.80	4.16	322.00	372.49
5	Mizoram	36.47		8.01	60.00	104.48
6	Nagaland	31.67		3.04	75.00	109.71
7	Sikkim	55.11		4.69	2282.00	2341.80
8	Tripura	16.01		15.87		31.88
	<b>Total</b>	<b>344.46</b>	<b>15.80</b>	<b>202.20</b>	<b>4309.00</b>	<b>4871.46</b>