

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO-261
TO BE ANSWERED ON-19.07.2018

TAPPING OF NEW & RENEWABLE ENERGY SOURCES

261. DR. RAMESH POKHRIYAL “NISHANK”:

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

- (a) whether the Government has decided to introduce state-of-the-art technology in order to tap new and renewable energy sources in the country;
- (b) if so, the details and present status thereof;
- (c) whether the Government has conducted any study on various new and renewable energy projects introduced with the help of foreign assistance;
- (d) if so, the details thereof and the total number of projects implemented in various States/UTs of the country including Uttarakhand during the last three years and the current year, State/UT-wise; and
- (e) the details of funds allocated by the Government for these projects during the said period, year and State-wise?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER (I/C)
(SHRI R.K. SINGH)

(a) & (b) Most of renewable energy projects in the country are being implemented by the private sector developers selected through a transparent bidding process. In order to be competitive, Developers are encouraged to deploy most advanced technologies. National Institute of Wind Energy (NIWE), an autonomous institution under the Ministry has installed a remote sensing instrument- LiDAR for assessment of offshore wind resource at Gulf of Khambat, off the Gujarat Coast.

(c) & (d) Indian Renewable Energy Development Agency (IREDA), a non-banking financial institution under the Ministry of New and Renewable Energy has conducted following studies with foreign assistance during the last three years and current year:

- Study/Survey & Preparation of Road Map on Tidal Energy Projects in India.
- Study on the business models for decentralized systems such as Solar PV/Hybrid mini grids, PV irrigation pumps and household lighting systems under access to Clean Energy Programme.
- Study for analysis of battery and Solar PV modules recycling processes in India along with development of market outreach strategy for Rooftop Solar PV.
- Study on the Investment Potential of Biofuels in India.

A total of 31.67 GW of renewable energy capacity has been installed through implementation of various renewable energy programmes/schemes during last three years and current year (upto June 2018) in the country including the state of Uttarakhand. The state-wise and source-wise details of capacity addition during this period are given in **Annexure-I**.

(e) The details of funds allocated by the Government in the form of Central Financial Assistance for the implementation of various renewable energy programmes/schemes in the country during the last three years and current year (upto June 2018) are given in **Annexure-II**.

Annexure-I referred to in reply to part (d) of Lok Sabha Unstarred Question No. 261 for 19/7/2018 regarding 'Tapping of New & Renewable Energy Sources'.

Source-wise and State-wise achievements made during the last three years and current year April 2015 to June 2018)					
(in MW)					
S.No.	State/UT	Solar power	Wind Power	Small Hydro Power	Bio-Power
1	Andhra Pradesh	2374.51	2978.45	20	20.39
2	Arunachal Pradesh	5.37	0	1.5	0
3	Assam	12.7	0	0	0
4	Bihar	142.45	0	0	20
5	Chhattisgarh	223.75	0	24	10
6	Goa	0.91	0	0	0
7	Gujarat	637.1	2087.8	12	12
8	Haryana	204.05	0	2	51.7
9	Himachal Pradesh	3.36	0	134.7	0
10	Jammu & Kashmir	9.85	0	22.5	0
11	Jharkhand	15.77	0	0	0
12	Karnataka	5046.97	2003.8	101	338.6
13	Kerala	138.47	17.4	50.1	0
14	Madhya Pradesh	763.23	1640.2	0	36.5
15	Maharashtra	1058.43	338	38.15	337
16	Manipur	2.17	0	0	0
17	Meghalaya	0.06	0	0	0
18	Mizoram	0.2	0	5	0
19	Nagaland	1	0	1	0
20	Orissa	78.49	0	0	0.6
21	Punjab	720.41	0	16.15	21
22	Rajasthan	1418.65	991.2	0	4.95
23	Sikkim	0.01	0	0	0
24	Tamil Nadu	2078.38	781.48	0	19.5
25	Telangana	3234.08	100.8	9.75	1
26	Tripura	0.09	0	0	0
27	Uttar Pradesh	668.16	0	0	89.1
28	Uttarakhand	298	0	0	10
29	West Bengal	30.77	0	0	8
30	Andaman & Nicobar	1.46	0	0	0
31	Chandigarh	25.86	0	0	0
32	Dadar & Nagar Haveli	5.46	0	0	0
33	Daman & Diu	13.01	0	0	0
34	Delhi	64.1	0	0	36
35	Lakshwadeep	0	0	0	0
36	Pondicherry	1.68	0	0	0
37	Others	0	0	0	0
	Total	19278.96	10939.13	437.85	1016.34

**Annexure-II referred to in reply to part (e) of Lok Sabha Unstarred Question No. 261 for 19/7/2018
regarding 'Tapping of New & Renewable Energy Sources'.**

State-wise and year-wise details of Funds released as Central Financial Assistance during last three years i.e. 2015-16 to 2017-18 and current year (upto June 2018)

(Rs in crore)

S. No.	State / UT Name	2015-16	2016-17	2017-18	Current Year (upto June 2018)
1	ANDHRA PRADESH	5.08	1.92	4.96	0.26
2	ARUNACHAL PRADESH	5.47	20.08	45.16	0
3	ASSAM	15.32	60.28	24.86	0
4	BIHAR	16.19	0	0	0
5	CHANDIGARH	10.03	9.69	2.23	16.06
6	CHHATTISGARH	42.64	72.92	161.96	46.42
7	DADRA & NAGAR HAVELI	0	0	0.34	0
8	DAMAN & DIU	0	0	0	0
9	DELHI	43.16	166.04	311.45	0.4
10	GOA	1.57	0.17	0	0
11	GUJARAT	58.65	74.09	158.89	50.24
12	HARYANA	36.26	16.24	2.16	5
13	HIMACHAL PRADESH	53.09	36.39	42.30	23.96
14	JAMMU AND KASHMIR	90.92	49.67	16.12	70.45
15	JHARKHAND	16.13	12.87	5.58	0.99
16	KARNATAKA	61.15	52.42	39.54	6.79
17	KERALA	32.76	36.17	44.02	0
18	LAKSHADWEEP	3.78	0.46	3.97	0
19	MADHYA PRADESH	6.95	40.16	442.13	0
20	MAHARASHTRA	248.61	155.21	43.12	2.71
21	MANIPUR	14.65	12.53	6.65	0
22	MEGHALAYA	8.62	20.52	23.28	0
23	MIZORAM	10.63	22.38	21.47	0
24	NAGALAND	7.89	17.97	11.49	0
25	ODISHA	11.03	21.17	13.55	0.12
26	PUDUCHERRY	0.01	1.11	0.31	0
27	PUNJAB	29.19	9.19	3.42	0.38
28	RAJASTHAN	249.64	86.85	103.14	6.71
29	SIKKIM	0.84	2.87	0.18	0
30	TAMIL NADU	195.11	169.28	30.50	51.44
31	TELANGANA	155.04	99.19	174.62	69.49
32	TRIPURA	5.46	14.57	2.73	0
33	UTTAR PRADESH	55.66	28.11	36.41	1.06
34	UTTARAKHAND	51.23	41.92	43.89	0
35	WEST BENGAL	9.44	1.37	6.58	0.1
36	ANDAMAN AND NICOBAR	0.03	0.48	3.03	0
37	CENTRAL AGENCY	1762.88	1187.01	1790.85	965.86