

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 2981
TO BE ANSWERED ON 11.07.2019
PROMOTION OF RENEWABLE ENERGY BY SNAs

2981. SHRI KULDEEP RAI SHARMA
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Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the success achieved by the Government for the development of renewable energy sources in the country during the last three years and the current year;
- (b) the steps taken by the Government for the promotion of renewable energy sources and their proper use in the country;
- (c) whether any nodal agencies have been set up in the States for promotion of renewable energy and energy conservation;
- (d) if so, the details thereof;
- (e) the details of the works undertaken by these agencies in the renewable energy sector in the rural areas and the achievements made as a result of the same, State/UT-wise; and
- (f) the details of incentives being given to the State Nodal Agencies (SNAs) for promotion, coordination and monitoring of projects in the States?

ANSWER

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

- (a) A total of 33.47 GW of renewable power capacity has been installed in the country during the last three years and current year (up to 31st May 2019).
- (b) The steps taken by the Government for the promotion of renewable energy sources in the country inter alia, includes the following:-
 - Announcement of a target of installing 175 GW of renewable energy capacity by March, 2022;
 - Waiver of Inter State Transmission System (ISTS) charges and losses for inter-state sale of solar and wind power for projects to be commissioned up to March, 2022.
 - Permitting Foreign Direct Investment (FDI) up to 100 percent under the automatic route.
 - Notification of standard bidding guidelines to enable distribution licensee to procure solar and wind power at competitive rates in cost effective manner.
 - Declaration of trajectory for Renewable Purchase Obligation (RPO) up to the year 2022.
 - Implementation of Green Energy Corridor project to facilitate grid integration of large scale renewable energy capacity addition.
 - Notification of standards for deployment of solar photovoltaic systems/devices
 - Launch of new scheme for farmers, CPSU Phase II and Solar Rooftop Phase II program.

(c) & (d) Yes Sir. State Nodal Agencies (SNAs) have been set up in States and Union Territories for the promotion of renewable energy in the country. The details of SNAs functioning in the various States/UTs are given in **Annexure-I**.

(e) The State Nodal Agencies (SNAs) are involved in the implementation of various renewable energy programmes in the country which includes identification of beneficiaries and project sites, facilitation for obtaining various statutory clearances required, technical supervision and regular monitoring of projects being implemented, submission of project completion reports etc.

The details of the achievements made in the country including rural areas under Grid connected and Off-grid renewable energy programmes upto May 2019 are given in **Annexure-II and III**.

(f) The Government is not providing any incentives to the SNAs. However, they are being paid service charges or administrative charges on completion of the sanctioned projects as per provisions of the scheme guidelines for promotion, coordination and monitoring of renewable energy projects.

Annexure-I referred to in reply to parts (c & d) of LOK Sabha Un-starred Question No. 2981 for 11/7/2019 regarding 'Promotion of Renewable Energy by SNAs'

List of STATE /UTs NODAL AGENCIES

S.No.	State/UTs	Name of the Agency
1.	ANDHRA PRADESH	New & Renewable Energy Development Corporation of Andhra Pradesh Ltd (NREDCAP)
2.	ANDAMAN & NICOBAR ISLANDS	Electricity Department, Andaman & Nicobar Administration
3.	ARUNACHAL PRADESH	Arunachal Pradesh Energy Development Agency (APEDA)
4.	ASSAM	Assam Energy Development Agency(AEDA)
5.	BIHAR	Bihar Renewable Energy Development Agency (BREDA)
6.	CHANDIGARH	Chandigarh Renewable Energy Science & Technology Promotion Society (CREST)
7.	CHHATTISGARH	Chhattisgarh State Renewable Energy Development, Agency (CREDA),
8.	DADRA & NAGAR HAVELI	Electricity Department U T Administration of Dadra & Nagar Haveli
9.	DELHI	Energy Efficiency and Renewable Energy Management Center, Government of NCT of Delhi
10.	GOA	Goa Energy Development Agency (GEDA)
11.	GUJARAT	Gujarat Energy Development Agency(GEDA)
12.	HARYANA	Haryana Renewable Energy, Development Agency (HAREDA)
13.	HIMACHAL PRADESH	HIMURJA
14.	JAMMU & KASHMIR	Jammu & Kashmir Energy, Development Agency(JAKEDA)
15.	JHARKHAND	Jharkhand Renewable Energy Development Agency (JREDA),
16.	KARNATAKA	Karnataka Renewable Energy Development Ltd.(KREDL)
17.	KERALA	Agency for Non-Conventional Energy and Rural Technology (ANERT),
18.	LAKSHADWEEP	Department of Electricity Lakshadweep Administration
19.	MADHYAPRADESH	Madhya Pradesh Urja Vikas Nigam Ltd
20.	MAHARASHTRA	Maharashtra Energy Development Agency (MEDA)
21.	MANIPUR	Manipur Renewable Energy Development Agency (MANIREDA)
22.	MEGHALAYA	Meghalaya Non-conventional & Rural Energy Development Agency(MNREDA)
23.	MIZORAM	Zoram Energy Development Agency (ZEDA),
24.	NAGALAND	Department of New and Renewable Energy
25.	ODISSA	Odissa Renewable Energy Development Agency (OREDA)
26.	PUDUCHERRY	Renewable Energy Agency Pondicherry (REAP)
27.	PUNJAB	Punjab Energy Development Agency (PEDA)
28.	RAJASTHAN	Rajasthan Renewable Energy Corporation Limited (RRECL)
29.	SIKKIM	Sikkim Renewable Energy Development Agency (SREDA)
30.	TAMIL NADU	Tamil Nadu Energy Development Agency (TEDA)
31.	TRIPURA	Tripura Renewable Energy Development Agency (TREDA)
32.	UTTAR PRADESH	Uttar Pradesh New & Renewable Development Agency(UPNEDA)
33.	UTTRAKHAND	Uttarakhand Renewable Energy Development Agency (UREDA)
34.	WEST BENGAL	West Bengal Renewable Energy Development Agency (WBREDA)
35.	KARGIL	Kargil Renewable Energy Development Agency (KREDA)
36.	TELENGANA	Telangana State New & Renewable Energy Development Corporation Ltd (TSREDCO).
37.	LADAKH	Ladakh Renewable Energy Development Agency (LREDA)
38.	DAMAN and DIU	Electricity Department, Administration of Daman and Diu.

Annexure-II

Annexure-II referred to in reply to part (e) of LOK Sabha Un-starred Question No. 2981 for 11/7/2019 regarding 'Promotion of Renewable Energy by SNAs'

Sno	State	Small Hydro Power	Wind Power	Bio Power	Solar Power	Total
1	Andhra Pradesh	162.11	4092.45	500.34	3290.76	8045.66
2	Arunachal Pradesh	131.105			5.39	136.50
3	Assam	34.11			26.87	60.98
4	Bihar	70.70		121.20	144.95	336.85
5	Chhatisgarh	76.00		230.50	231.35	537.85
6	Goa	0.05			4.78	4.83
7	Gujarat	61.30	6290.47	77.30	2564.14	8993.21
8	Haryana	73.50		205.66	232.16	511.32
9	Himachal Pradesh	870.21		7.20	24.02	901.43
10	Jammu & Kashmir	180.03			15.12	195.15
11	Jharkhand	4.05		4.30	36.47	44.82
12	Karnataka	1254.73	4714.70	1827.80	6134.91	13932.14
13	Kerala	222.02	52.50	0.72	140.33	415.57
14	Madhya Pradesh	95.91	2519.890	120.75	1992.25	4728.80
15	Maharashtra	375.570	4794.13	2528.69	1639.15	9337.54
16	Manipur	5.45			3.47	8.92
17	Meghalaya	32.53		13.80	0.12	46.45
18	Mizoram	36.47			0.51	36.98
19	Nagaland	30.67			1.00	31.67
20	Odisha	64.625		59.22	396.89	520.74
21	Punjab	173.55		326.35	905.62	1405.52
22	Rajasthan	23.85	4299.72	121.30	3551.00	7995.87
23	Sikkim	52.11			0.01	52.12
24	Tamil Nadu	123.05	9192.86	1003.95	2812.05	13131.91
25	Telangana	90.87	128.10	177.60	3598.80	3995.37
26	Tripura	16.01			9.41	25.42
27	Uttar Pradesh	25.10		2115.51	1045.10	3185.71
28	Uttarakhand	214.320		130.50	309.84	654.66
29	West Bengal	98.50		319.92	89.43	507.85
30	Andaman & Nicobar	5.25			11.73	16.98
31	Chandigarh				34.71	34.71
32	Dadar & Nagar Haveli				5.46	5.46
33	Daman & Diu				15.41	15.41
34	Delhi			52.00	132.15	184.15
35	Lakshwadeep				0.75	0.75
36	Pondicherry				3.14	3.14
37	Others		4.30			4.30
	Total (MW)	4603.750	36089.120	9944.61	29409.25	80046.73

Annexure-III

Annexure-III referred to in reply to part (e) of Lok Sabha Un-starred Question No. 2981 for 11/7/2019 regarding 'Promotion of Renewable Energy by SNAs'

State-wise details of Decentralised/Off-Grid Renewable Energy Systems/Devices as on 31.05.2019									
S.No	STATES / UT	Biomass Gasifier	Waste to Energy	Solar Photovoltaic (SPV) Systems					SPV
				SLS	HLS	SL	Total	PP	Pumps
	(a)	(b)	(c)	(d)	(e)	(f)	(d) to (f)	(g)	(h)
		(MW)	(MW)					(kWp)	(Nos)
1	Andhra Pradesh	22.91	23.88	8992	22972	77803	109767	3816	34045
2	Arunachal Pradesh			5008	35065	18551	58624	963	22
3	Assam	2.93		9547	46879	579348	635774	1605	45
4	Bihar	5.93	1.00	31260	12303	1290510	1334073	6770	2107
5	Chhatisgarh	1.21	0.33	2042	42232	3311	47585	31250	61970
6	Goa			707	393	1093	2193	33	15
7	Gujarat	20.08	17.45	2004	9253	31603	42860	13577	11522
8	Haryana	4.46	4.46	34625	56727	93853	185205	2321	1293
9	Himachal Pradesh		1.00	78000	22592	33909	134501	1906	6
10	Jammu & Kashmir	0.20		14156	144316	51224	209696	8130	39
11	Jharkhand	0.50		10843	9450	749466	769759	3770	3857
12	Karnataka	6.30	10.05	2694	52638	7781	63113	7754	6343
13	Kerala		0.23	1735	41912	54367	98014	15825	818
14	Madhya Pradesh	9.86	2.38	11226	7920	529101	548247	3654	17813
15	Maharashtra	7.15	27.71	10420	3497	239297	253214	3858	4315
16	Manipur			11205	24583	9058	44846	1581	40
17	Meghalaya	0.25		5800	14874	40750	61424	2004	19
18	Mizoram			5325	12060	10512	27897	2956	37
19	Nagaland			6235	1045	6766	14046	1506	3
20	Orissa	0.27		15647	5274	99843	120764	568	9327
21	Punjab		7.40	42758	8626	17495	68879	2066	3857
22	Rajasthan	2.63	3.91	7114	187968	225851	420933	30349	48175
23	Sikkim			504	15059	23300	38863	850	0
24	Tamil Nadu	14.86	15.96	39419	290729	16818	346966	12753	4984
25	Telangana		3.50	1111	0	0	1111	7450	424
26	Tripura			1199	32723	64282	98204	867	151
27	Uttar Pradesh	31.85	49.81	260949	235909	1631207	2128065	10638	20465
28	Uttarakhand	2.15	8.49	22149	91595	163386	277130	3145	26
29	West Bengal	29.82	1.17	8726	145332	17662	171720	1730	653
30	Andaman & Nicobar			390	468	6296	7154	167	5
31	Chandigarh			898	275	1675	2848	730	12
32	Dadar & Nagar Haveli			0	0	0	0	0	0
33	Daman & Diu			0	0	0	0	0	0
34	Delhi			301	0	4807	5108	1269	90
35	Lakshwadeep			2465	600	5289	8354	2190	0
36	Puducherry			417	25	1637	2079	121	21
37	Others*			9150	140273	125797	275220	23885	4621
	Total	163.37	178.73	665021	1715567	6233648	8614236	212054	237120

SLS = Street Lighting System; HLS=Home Lighting System;
SL= Solar Lanterns; MW=Mega Watt; kWp=kilowatt peak; PP = Power plants;