

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 300
ANSWERED ON 19.07.2022

**IDENTIFICATION OF REGION-SPECIFIC NEEDS AND REQUIREMENTS FOR
RENEWABLE ENERGY**

300.SHRI SUJEET KUMAR

Will the Minister of New & Renewable Energy be pleased to state:

- (a) whether Government has undertaken any research to identify region- specific needs and requirements for Renewable Energy, If so, the details thereof, if not, the reasons therefor; and
- (b) the steps taken to boost employment opportunities in the green energy sector?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) Ministry has carried out a number of studies to assess the potential of the renewable energy sources in the country. The State-wise estimated renewable energy potential is given in *Annexure*.

Electricity generated from RE sources is mostly injected into the grid, thus contributing to satisfying the overall electricity demand in various parts of the country.

(b) The Ministry is developing qualified and skilled manpower in Renewable Energy area through its Human Resource Development Programme. The salient components of the programme are as follows:-

- I. Suryamitra Skill Development Programme (Solar PV technician training) was launched by MNRE in 2015 for boosting employment opportunities by creating skilled manpower and for installation, operation and maintenance of solar power projects. A cumulative total of 51331 no. of suryamitras were trained from inception up to May 2022 under this programme out of which 26967 no. of suryamitras got employment.
- II. The Ministry has launched the Jal-Urjamitra Skill Development Programme to train Small Hydro Power Plant Technicians for installation, operation, repair and maintenance of Small Hydro Power Projects.
- III. Vayumitra Skill Development Programme (VSDP) (Phase-1) has been launched for creating skilled and trained manpower for maintenance of Wind power projects.
- IV. Support to educational, training organizations and NGOs to undertake short-term training courses on various aspects of renewable energy, specifically to create trained manpower for system design, installation, operation and maintenance of renewable energy projects.
- V. Ministry is encouraging students to take courses of renewable energy by providing National Renewable Energy Fellowships at M.Tech, M.Sc., and Ph.D levels.

**Annexure referred in reply to part (a) of the Rajya Sabha Unstarred Question No. 300 to be answered
on 19.07.2022**

State wise Estimated Potential								
Sl. No.	STATES / UTss	Wind Power	Small Hydro Power	Bio-Energy			Solar	Total
				Biomass Power	Bagasse Cogeneration	Waste To Energy		
		(MW) @ 120m	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)
1	Andhra Pradesh	74906	409.32	578	300	123	38440	114756
2	Arunachal Pradesh	274	2064.92	8			8650	10997
3	Assam	246	201.99	212		8	13760	14428
4	Bihar	3650	526.98	619	300	73	11200	16369
5	Chhattisgarh	348	1098.20	236		24	18270	19976
6	Goa	8	4.70	26			880	918
7	Gujarat	142560	201.97	1221	350	112	35770	180215
8	Haryana	419	107.40	1333	350	24	4560	6793
9	Himachal Pradesh	151	3460.34	142		2	33840	37595
10	Jammu & Kashmir	3	1707.45	43			111050	112803
11	Jharkhand	0	227.96	90		10	18180	18508
12	Karnataka	124155	3726.49	1131	450		24700	154162
13	Kerala	2311	647.15	1044		36	6110	10149
14	Madhya Pradesh	15404	820.44	1364		78	61660	79326
15	Maharashtra	98213	786.46	1887	1250	287	64320	166744
16	Manipur	0	99.95	13		2	10630	10745
17	Meghalaya	1	230.05	11		2	5860	6104
18	Mizoram	0	168.90	1		2	9090	9261
19	Nagaland	0	182.18	10			7290	7482
20	Orissa	8346	286.22	246		22	25780	34681
21	Punjab	278	578.28	3172	300	45	2810	7183
22	Rajasthan	127756	51.67	1039		62	142310	271219
23	Sikkim	0	266.64	2			4940	5209
24	Tamil Nadu	68750	604.46	1070	450	151	17670	88695
25	Telangana	24835	102.25				20410	45347
26	Tripura	0	46.86	3		2	2080	2131
27	Uttar Pradesh	101	460.75	1617	1250	176	22830	26434
28	Uttarakhand	54	1664.31	24		5	16800	18547
29	West Bengal	1050	392.06	396		148	6260	8246
30	Andaman & Nicobar	1277	7.27				0	1284
31	Chandigarh	0				6	0	6
32	Dadar & Nagar Haveli	0					0	0
33	Daman & Diu	0					0	0
34	Delhi	0				131	2050	2181
35	Lakshwadeep	31					0	31
36	Pondicherry	382				3	0	385
37	Others					1022	790	1812
	Total	695509.00	21133.62	17536.41	5000.00	2554.00	748990.00	1490723.03