

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO- 1628**  
ANSWERED ON-11.02.2021

**LAND IRRIGATED BY SOLAR WATER PUMPS**

+1628. SHRI ARUN SAO

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

- (a) the total number of solar water pumps distributed to the farmers during the last three years;
- (b) the percentage of land irrigated by the States and Union Territories with these pumps;
- (c) whether solar water pumps are also useful for small farmers who have less agricultural land;
- (d) if so, the details thereof; and
- (e) the steps taken/proposed to be taken to increase/ promote the use of solar water pumps?

**ANSWER**

THE MINISTER OF STATE (I/C) FOR NEW & RENEWABLE ENERGY, POWER and MoS for SKILL DEVELOPMENT AND ENTREPRENEURSHIP

(SHRI R.K. SINGH)

(a) During last three years and current year, till 31.12.2020, around 1.58 lakh standalone solar pumps have been installed throughout the country under schemes being implemented by Ministry of New and Renewable Energy. State/ UT-wise number of solar pumps installed is placed at **Annexure**.

(b) The area of land brought under irrigation through these solar pumps depends upon several factors including capacity of pump, type of crop, ground water level, etc. In general, a 5 HP capacity solar water pump linked with micro irrigation system covers an area of 2.5 hectares for irrigation.

(c) to (e) Under the Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan (PM-KUSUM), 20 lakh standalone solar pumps are targeted for installation by 2022 and 15 lakh grid connected agriculture pumps are targeted to be solarised by the same year. Priority is given to small and marginal farmers under the scheme. Central Financial Assistance (CFA) of 30% of the benchmark cost or the cost discovered through tender, whichever is lower, is provided. The State Government also provides subsidy of 30% or higher. For North Eastern states including Sikkim; states of Himachal Pradesh and Uttarakhand; UTs of Jammu & Kashmir and Ladakh; and island UTs of Lakshadweep and A&N Islands, higher CFA of 50% of the benchmark cost or the cost discovered through tender, whichever is lower, is provided.

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**Annexure****State-wise Year-wise Installation of Solar Pumps**

S.No.	States	Solar Pumps Installed (Nos.)				Total
		2017-18	2018-19	2019-20	2020-21 (As on 31.12.2020)	
1	Andhra Pradesh	13925	9501	0	0	23426
2	Arunachal Pradesh	0	0	0	0	0
3	Assam	0	0	0	0	0
4	Bihar	0	225	706	0	931
5	Chhattisgarh	28297	22548	0	0	50845
6	Delhi	0	0	0	0	0
7	Goa	0	0	0	0	0
8	Gujarat	3471	0	0	2	3473
9	Haryana	750	0	0	3721	4471
10	Himachal Pradesh	0	0	0	9	9
11	Jammu & Kashmir	0	0	0	0	0
12	Jharkhand	556	155	813	130	1654
13	Karnataka	1359	1507	1077	15	3958
14	Kerala	8	0	0	0	8
15	Madhya Pradesh	1771	12229	0	5343	19343
16	Maharashtra	1287	1000	7000	0	9287
17	Manipur	0	0	0	0	0
18	Meghalaya	0	0	0	0	0
19	Mizoram	0	0	0	0	0
20	Nagaland	0	0	0	0	0
21	Orissa	1718	530	224	48	2520
22	Punjab	0	2000	556	250	2806
23	Rajasthan	0	6985	0	5248	12233
24	Sikkim	0	0	0	0	0
25	Tamil Nadu	0	221	475	830	1526
26	Telangana	0	0	0	0	0
27	Tripura	0	0	0	0	0
28	Uttar Pradesh	1223	8382	8185	950	18740
29	Uttarakhand	0	0	0	0	0
30	West Bengal	0	0	0	0	0
31	Andaman & Nicobar	0	0	0	0	0
32	Chandigarh	0	0	0	0	0
33	Lakshadweep	0	0	0	0	0
34	Puducherry	0	0	0	0	0
35	Others	0	609	0	0	609
36	NABARD	1985	0	0	0	1985
	<b>Total</b>	<b>56350</b>	<b>65892</b>	<b>19036</b>	<b>16546</b>	<b>157824</b>