

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
STARRED QUESTION NO. 275
ANSWERED ON 04.08.2022

INSTALLATION OF SOLAR IRRIGATION PUMPS

*275. DR. KALANIDHI VEERASWAMY
SHRI PRADYUT BORDOLOI

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

- (a) the details of the solar capacity that has been added through the installation of solar irrigation pumps for cultivation since the inception of Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PMKUSUM) across the country, State-wise including Tamil Nadu;
- (b) the details of per annum reduction in diesel consumption in terms of litres which has been observed so far;
- (c) the details of conversion rate of diesel-based pumps to solar pumps, State/UT-wise;
- (d) the number of farmers who have benefitted under PM-KUSUM since inception, State/UT-wise including Tamil Nadu;
- (e) whether the Government maintains the record of Carbon Dioxide (CO₂) emission that has reduced as a result of implementation of the scheme; and
- (f) if so, the details thereof since the launch of PM-KUSUM, State/UT-wise?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) to (f) A Statement is laid on the Table of the House.

STATEMENT

Statement referred to in reply to parts (a) to (f) of Lok Sabha Starred Question No. 275 to be answered on 04.08.2022 regarding *Installation of Solar Irrigation Pumps*

(a) to (f) Till 30.06.2022, a total solar capacity of 691.4 MW has been added through installation of standalone solar pumps under Component-B and solarization of existing grid-connected agriculture pumps under Component-C of the PM-KUSUM Scheme. The State/UT-wise details of solar capacity added under these two components, including in the State of Tamil Nadu, is placed at **Annexure-I**.

Under Component-B, total 1,23,180 nos. of standalone solar pumps have been installed as on 30.06.2022, which is estimated to result in reduction of 85 million liters of diesel consumption per annum. As per All India Agricultural Input Survey 2016-17 released by the Ministry of Agriculture and Farmers Welfare, there are 11.2 million diesel agricultural pumps in the country. A total of 3.85 lakh standalone solar pumps have been reported installed cumulatively till 30.06.2022, including the solar pumps installed under PM-KUSUM Scheme. The state-wise details of diesel agricultural pumps and standalone solar pumps installed is placed at **Annexure-II**.

The State/UT-wise number of farmers benefitted under all the three components of the PM-KUSUM Scheme, including in the State of Tamil Nadu, is placed at **Annexure-III**.

It has been estimated that a reduction of around 0.44 million tonnes per annum in Carbon Dioxide (CO₂) emissions is on account of capacity installed under all the three components of the PM-KUSUM Scheme as on 30.06.2022. The state/UT-wise estimated reduction in CO₂ emissions is placed at **Annexure-IV**.

Annexure-I referred in reply to part (a) to (f) of the Lok Sabha Starred Question No. 275 to be answered on 04.08.2022

State/UT-wise details of solar capacity addition through solarization of agricultural pumps under Component-B and Component-C of the PM-KUSUM Scheme as on 30.06.2022

S.No.	State/UT	Solar Capacity Addition (MW)
1	Rajasthan	282.6
2	Haryana	246.5
3	Punjab	52
4	Madhya Pradesh	29.3
5	Maharashtra	20.3
6	Uttar Pradesh	20
7	Jharkhand	17.4
8	Tamil Nadu	10.6
9	Odisha	3.4
10	Gujarat	2.7
11	Karnataka	2
12	Himachal Pradesh	1.5
13	Tripura	1.5
14	Jammu & Kashmir	1.3
15	Kerala	0.1
16	Manipur	0.1
17	Meghalaya	0.1
	Total	691.4

Annexure-II referred in reply to part (a) to (f) of the Lok Sabha Starred Question No. 275 to be answered on 04.08.2022

State-wise details of number of diesel pumps as per “All India Agri Input Survey 2016-17” and number of standalone solar pumps reported installed cumulatively as on 30.06.2022.

S. No.	States/UT	Total No. of Diesel Pumps as per All India Agriculture Input Survey 2016-17	Total No. of Standalone Solar Pumps installed till 30.06.2022
1	Andhra Pradesh	413600	34045
2	Arunachal Pradesh	2300	22
3	Assam	92100	45
4	Bihar	574000	2813
5	Chhattisgarh	113500	61970
6	Goa	11800	45
7	Gujarat	674800	11981
8	Haryana	322000	38193
9	Himachal Pradesh	1900	365
10	Jammu & Kashmir*	29500	362
11	Jharkhand	330600	11387
12	Karnataka	334200	7734
13	Kerala	16000	818
14	Madhya Pradesh	1103600	25047
15	Maharashtra	393300	17137
16	Manipur	100	68
17	Meghalaya	11200	54
18	Nagaland	8100	3
19	Odisha	495500	10548
20	Punjab	226700	14544
21	Rajasthan	1121000	97645
22	Sikkim	100	0
23	Tamil Nadu	278600	7225
24	Telangana	56200	424
25	Tripura	71900	1098
26	Uttar Pradesh	3607600	35492
27	Uttarakhand	43000	73
28	West Bengal	817000	653
29	Andaman & Nicobar Islands	1100	5
30	Puducherry	600	21
31	Others	300	4760
	Total	11152200	384577

* Combined with Ladakh

Annexure-III referred in reply to part (a) to (f) of the Lok Sabha Starred Question No. 275 to be answered on 04.08.2022

State/UT-wise details of beneficiaries under all the three components of the PM-KUSUM Scheme as on 30.06.2022

S. No.	State/UT	Beneficiaries under the PM-KUSUM scheme
1	Gujarat	459
2	Haryana	36795
3	Himachal Pradesh	397
4	Jammu & Kashmir	323
5	Jharkhand	6717
6	Karnataka	314
7	Kerala	21
9	Madhya Pradesh	7234
10	Maharashtra	5822
11	Manipur	28
12	Meghalaya	35
13	Odisha	997
14	Punjab	10131
15	Rajasthan	45396
16	Tamil Nadu	1766
17	Tripura	947
18	Uttar Pradesh	6842
19	Uttarakhand	73
	Total	124297

Annexure-IV referred in reply to part (a) to (f) of the Lok Sabha Starred Question No. 275 to be answered on 04.08.2022

State/UT-wise reduction in CO₂ emissions per annum against the solar capacity installed under all the three components of the PM-KUSUM Scheme as on 30.06.2022

S. No.	State/UT	CO ₂ emission reduction in thousand tonnes per annum
1	Rajasthan	188.99
2	Haryana	133.53
3	Himachal Pradesh	32.49
4	Punjab	27.39
5	Madhya Pradesh	15.42
6	Maharashtra	10.67
7	Uttar Pradesh	10.54
8	Jharkhand	9.16
9	Tamil Nadu	5.59
10	Odisha	1.79
11	Gujarat	1.4
12	Karnataka	1.06
13	Tripura	0.8
14	Jammu & Kashmir	0.67
15	Kerala	0.14
16	Uttarakhand	0.08
17	Manipur	0.04
18	Meghalaya	0.03
	Total	439.79 (Say 0.44 million)