

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 3660**  
ANSWERED ON 24.03.2026

**RENEWABLE ENERGY PROJECTS IN THE COUNTRY**

3660. SHRI MASTHAN RAO YADAV BEEDHA

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

- (a) the details of renewable energy projects sanctioned, under construction and operational in the country during the last five years, source-wise and State wise;
- (b) the details of the total renewable energy capacity added during the last five years, year-wise, source-wise and State-wise;
- (c) the details of the investment made and the funds sanctioned, released and utilised for renewable energy projects during the last five years, year-wise and State-wise; and
- (d) whether Government has set any renewable energy targets, if so, the details of targets along with the steps taken by Government to achieve them including strengthening grid integration and storage infrastructure?

**ANSWER**

**THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER**

**(SHRI SHRIPAD YESSO NAIK)**

(a) to (c) Most of utility-scale renewable energy projects in the country are being set up by developers, selected through a transparent bidding process. However, the State-wise details of renewable energy projects sanctioned, commissioned and under Implementation under the major ongoing schemes/ programmes of the Ministry of New & Renewable Energy (MNRE) during the last five years are given at **Annexure-I**.

The year-wise, source-wise and State-wise details of the renewable energy capacity added during the last five years are given at **Annexure-II**.

The average capital cost (indicative) of setting up of renewable energy projects are as under:

Type of RE Power Plant	Average Capital Cost (indicative) (In Rs. Cr/MW)
Solar Power	~ 4
Wind Power	~ 7
Bio-Power	~ 6-8
Small Hydro Power	~ 10

The cost of renewable energy projects may vary depending on factors such as technology, location, scale and resource availability.

Further, the State-wise details of the funds released/ utilized as Central Financial Assistance for the renewable energy projects under the major ongoing schemes/ programmes of the Ministry during the last five years are given at **Annexure-III**. State-wise allocation/ sanction of the funds is not made by the Ministry and the funds are released in accordance with the respective scheme guidelines.

(d) The Ministry is working towards achieving 500 GW of installed electricity capacity from non-fossil fuel-based sources by 2030. The Government has taken several steps and initiatives to promote and accelerate development and deployment of renewable energy capacity in the country including for development of the Energy Storage capacity and to strengthen grid integration, to realize the commitment of 500 GW non-fossil energy capacity by 2030, as given at **Annexure-IV**.

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**Annexure-I referred to in reply of parts-(a) to (c) of the Rajya Sabha Unstarred Question No. 3660 to be answered on 24.03.2026**

**State-wise details of Renewable Energy projects sanctioned, commissioned and under Implementation under the major ongoing schemes/ programmes of MNRE during the last five years**

**1. Solar Parks:**

State	Solar Parks capacity sanctioned since 2020-21 (in MW)	Total projects commissioned in solar parks since 2020-21, (in MW)*
Andhra Pradesh	300	1250
Chhattisgarh	100	100
Gujarat	10450	4451
Jharkhand	234	0
Jharkhand & West Bengal	310	0
Kerala	150	55
Madhya Pradesh	1708	1608
Maharashtra	355	100
Mizoram	-	20
Rajasthan	6450	2096
Uttar Pradesh	3375	265
<b>Total</b>	<b>23432</b>	<b>9945</b>

*\*The commissioned capacity includes projects commissioned in solar parks sanctioned prior to 2020-21*

**2. PM Surya Ghar Muft Bijli Yojana (PMSGMBY):**

**Number of applications submitted under PMSGMBY on the National Portal of the scheme and the installations done as on 19.03.2026:**

S. No.	State/ UTs	No. of applications submitted	No. of Installations done
1	A&N Islands	722	229
2	Andhra Pradesh	1463525	114267
3	Arunachal Pradesh	83	1
4	Assam	533936	102128
5	Bihar	63762	16646
6	Chandigarh	1611	1111
7	Chhattisgarh	165606	39932
8	Goa	3679	2096
9	Gujarat	699350	594809
10	Haryana	134329	63886
11	Himachal Pradesh	13320	7940
12	Jammu & Kashmir	99303	26835
13	Jharkhand	9224	1939
14	Karnataka	158679	17206
15	Kerala	290328	209564
16	Ladakh	1775	1486
17	Lakshadweep	1343	930
18	Madhya Pradesh	168134	104406
19	Maharashtra	711088	490382
20	Manipur	1806	910
21	Meghalaya	1962	46
22	Mizoram	1127	977
23	Nagaland	648	186
24	NCT of Delhi	28881	6817

S. No.	State/ UTs	No. of applications submitted	No. of Installations done
25	Odisha	207485	50070
26	Puducherry	4041	2809
27	Punjab	21680	12010
28	Rajasthan	322415	159457
29	Sikkim	256	29
30	Tamil Nadu	75344	60127
31	Telangana	83087	32644
32	Dadra & Nagar Haveli and Daman & Diu	2470	627
33	Tripura	9035	2649
34	Uttarakhand	112719	71724
35	Uttar Pradesh	1216832	420622
36	West Bengal	13299	1351
	<b>Total</b>	<b>6622884</b>	<b>2618848</b>

### 3. PM-KUSUM:

State/ UT-wise details of capacity allocation and capacity installed under PM-KUSUM during the last five years and current year, as on 28.02.2026:

S. No.	State/ UT Name	Component-A (In MW)		Component-B (No. of solar pumps)		Component-C (No. of grid-connected pumps)				
		Sanctioned	Installed	Sanctioned	Installed	Sanctioned (IPS)	Sanctioned (FLS)	Solarized (IPS)	Solarized (FLS)	Total Solarized
1	A&N Islands	0.00	0.00	0	0	0	0	0	0	0
2	Andhra Pradesh	0.00	0.00	0	0	0	2,93,587	0	0	0
3	Arunachal Pradesh	0.00	0.00	700	699	0	0	0	0	0
4	Assam	2.00	0.00	4,000	1,066	0	0	0	0	0
5	Bihar	0.00	0.00	0	0	0	1,40,300	0	0	0
6	Chhattisgarh	366.00	7.00	0	0	0	10,523	0	0	0
7	Goa	24.00	4.00	900	200	0	11,000	0	700	700
8	Gujarat	175.00	0.00	22,792	15,558	0	4,67,114	0	2,55,245	2,55,245
9	Haryana	158.00	29.21	1,97,655	1,85,582	0	2,899	0	0	0
10	Himachal Pradesh	100.00	100.00	1,270	1,091	0	0	0	0	0
11	Jammu & Kashmir	0.00	0.00	5,000	4,154	0	0	0	0	0
12	Jharkhand	0.00	0.00	86,985	52,607	0	0	0	0	0
13	Karnataka	0.00	0.00	41,365	5,533	0	7,63,588	0	86,827	86,827
14	Kerala	0.00	0.00	8	8	9,448	22,368	2,737	10,964	13,701
15	Ladakh	1.00	0.00	1,400	265	0	0	0	0	0
16	Madhya Pradesh	1,400.00	75.10	59,400	7,672	0	2,52,000	0	46,811	46,811
17	Maharashtra	260.00	17.00	5,75,000	5,12,966	0	7,75,000	0	7,75,000	7,75,000
18	Manipur	0.00	0.00	450	150	0	0	0	0	0
19	Meghalaya	0.00	0.00	2,735	98	0	0	0	0	0
20	Mizoram	0.00	0.00	1,700	40	0	0	0	0	0
21	Nagaland	0.00	0.00	265	244	0	0	0	0	0
22	Odisha	90.00	0.00	18,441	13,229	0	5,223	0	0	0
23	Puducherry	0.00	0.00	72	0	0	0	0	0	0
24	Punjab	0.00	0.00	18,048	17,879	186	0	25	0	25
25	Rajasthan	5,618.00	597.09	1,44,752	1,25,711	2,138	4,00,000	2,138	1,65,520	1,67,658
26	Tamil Nadu	3.00	3.00	5,187	5,176	0	0	0	0	0
27	Telangana	1,797.00	6.00	20,000	0	28,000	0	0	0	0
28	Tripura	5.00	0.00	11,114	7,369	3,600	0	983	0	983
29	Uttar Pradesh	1.00	1.00	1,07,266	67,186	12,000	3,70,000	6,900	825	7,725

S. No.	State/ UT Name	Component-A (In MW)		Component-B (No. of solar pumps)		Component-C (No. of grid-connected pumps)				
		Sanctioned	Installed	Sanctioned	Installed	Sanctioned (IPS)	Sanctioned (FLS)	Solarized (IPS)	Solarized (FLS)	Total Solarized
30	Uttarakhand	0.00	0.00	3,685	2,379	0	0	0	0	0
31	West Bengal	0.00	0.00	0	0	20	0	4	0	4
<b>Total</b>		<b>10,000.00</b>	<b>839.40</b>	<b>13,30,190</b>	<b>10,26,862</b>	<b>55,392</b>	<b>35,13,602</b>	<b>12,787</b>	<b>13,41,892</b>	<b>13,54,679</b>

#### 4. CPSU Phase-II Scheme:

Under CPSU Scheme Phase-II, a total of 6,200 MW solar power capacity has been awarded to Government entities during the last five financial years. The Government entities selected under the Scheme can set up their awarded solar power projects anywhere in the country.

Based on the information provided by the selected entities, the State-wise details of capacity awarded during the last five financial years and the corresponding capacity commissioned and under implementation out of the said awarded capacities (as on 31.01.2026) are as follows:

State	Projects Awarded (MW)	Capacity Commissioned (in MW)	Under Implementation (in MW)
Andhra Pradesh	400	0	400
Gujarat	2755	1162.5	1592.5
Karnataka	500	400	100
Madhya Pradesh	200	0	200
Rajasthan	2335	2335	0
Tamil Nadu	10	10	0
<b>Total</b>	<b>6200</b>	<b>3907.5</b>	<b>2292.5</b>

#### 5. Biomass Programme:

Sl No	State	Projects sanctioned during last five years (in MW)	Commissioned (in MW)
1	Andhra Pradesh	13.26	13.26
2	Bihar	12.9	12.9
3	Haryana	19.1	19.1
4	Karnataka	83	83
5	Madhya Pradesh	1.99	1.99
6	Maharashtra	74.4	74.4
7	Odisha	0.8	0.8
8	Punjab	49.8	49.8
9	Tamil Nadu	3.5	3.5
10	Telangana	8.3	8.3
11	Uttarakhand	2.5	2.5
12	Uttar pradesh	19.75	19.75
13	West Bengal	4.2	4.2
<b>Total</b>		<b>293.5</b>	<b>293.5</b>

6. Waste to Energy Programme:

Details of projects sanctioned during the last five years and the current year:

Sl. No.	State	Projects Sanctioned		Commissioned		Under Implementation	
		No.	Capacity (MWeq)	No.	Capacity (MWeq)	No.	Capacity (MWeq)
1.	Andhra Pradesh	8	31.83	8	31.83	0	0
2.	Delhi	2	2.33	1	1.17	1	1.17
3.	Goa	1	1.00	1	1.00	0	0
4.	Gujarat	11	53.00	8	8.30	3	44.70
5.	Haryana	12	16.76	11	16.14	1	0.62
6.	Jharkhand	1	1.04	1	1.04	0	0
7.	Karnataka	6	6.94	6	6.94	0	0
8.	Madhya Pradesh	2	3.60	2	3.60	0	0
9.	Maharashtra	10	20.02	8	15.27	2	4.75
10.	Punjab	7	22.97	6	20.88	1	2.08
11.	Rajasthan	2	0.98	2	0.98	0	0
12.	Tamil Nadu	6	9.25	5	8.08	1	1.17
13.	Telangana	7	5.69	6	4.99	1	0.70
14.	Uttar Pradesh	19	30.68	19	30.68	0	0
15.	Uttarakhand	2	4.46	2	4.46	0	0
16.	West Bengal	3	3.06	3	3.06	0	0
	<b>Total</b>	<b>99</b>	<b>213.61</b>	<b>89</b>	<b>158.43</b>	<b>10</b>	<b>55.19</b>

**Annexure-II referred to in reply of parts-(a) to (c) of the Rajya Sabha Unstarred  
Question No. 3660 to be answered on 24.03.2026**

**Year-wise, source-wise and state-wise details of the total renewable energy capacity added during the  
last five years**

(In MW)

FY 2020-21							
S. No.	STATES / UTs	Small Hydro Power	Wind Power	Bio Power	Solar Power	Large Hydro Power	Total
1	Andhra Pradesh	0.00	4.20	7.49	593.02	0.00	604.71
2	Arunachal Pradesh	0.00	0.00	0.00	0.29	300.00	300.29
3	Assam	0.00	0.00	2.00	1.81	0.00	3.81
4	Bihar	0.00	0.00	3.50	8.04	0.00	11.54
5	Chhattisgarh	0.00	0.00	0.48	21.15	0.00	21.63
6	Goa	0.00	0.00	0.00	2.66	0.00	2.66
7	Gujarat	13.74	1020.30	3.34	1483.10	0.00	2520.48
8	Haryana	0.00	0.00	6.20	209.12	0.00	215.32
9	Himachal Pradesh	24.60	0.00	2.00	10.10	111.00	147.70
10	Jammu & Kashmir	5.50	0.00	0.00	1.50	0.00	7.00
11	Jharkhand	0.00	0.00	0.00	14.41	0.00	14.41
12	Karnataka	0.00	148.00	5.50	77.70	0.00	231.20
13	Kerala	8.00	0.00	1.55	115.02	0.00	124.57
14	Madhya Pradesh	3.80	0.00	2.00	235.42	0.00	241.22
15	Maharashtra	0.00	0.00	72.41	488.17	0.00	560.59
16	Manipur	0.00	0.00	0.00	1.41	0.00	1.41
17	Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00
18	Mizoram	0.00	0.00	0.00	0.93	0.00	0.93
19	Nagaland	0.00	0.00	0.00	0.07	0.00	0.07
20	Odisha	24.01	0.00	0.00	5.25	0.00	29.26
21	Punjab	0.00	0.00	156.35	20.59	0.00	176.94
22	Rajasthan	0.00	27.10	-0.05	650.33	0.00	677.38
23	Sikkim	0.00	0.00	0.00	0.00	0.00	0.00
24	Tamil Nadu	0.00	303.70	18.22	565.91	0.00	887.83
25	Telangana	0.00	0.00	21.30	332.44	0.00	353.74
26	Tripura	0.00	0.00	0.00	0.66	0.00	0.66
27	Uttar Pradesh	24.00	0.00	10.35	627.75	0.00	662.10
28	Uttarakhand	0.00	0.00	-0.28	52.56	99.00	151.28
29	West Bengal	0.00	0.00	0.00	35.41	0.00	35.41
30	A&N Islands	0.00	0.00	0.00	17.03	0.00	17.03
31	Chandigarh	0.00	0.00	0.00	4.61	0.00	4.61
32	Dadra & Nagar Haveli and Daman & Diu	0.00	0.00	0.00	20.69	0.00	20.69
33	Delhi	0.00	0.00	0.00	27.81	0.00	27.81
34	Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00
35	Puducherry	0.00	0.00	0.00	3.82	0.00	3.82
36	Others	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total (MW)</b>	<b>103.65</b>	<b>1503.30</b>	<b>312.36</b>	<b>5628.78</b>	<b>510.00</b>	<b>8058.09</b>

FY 2021-22							
S. No.	STATES / UTs	Small Hydro Power	Wind Power	Bio Power	Solar Power	Large Hydro Power	Total
1	Andhra Pradesh	0.00	0.00	30.00	95.42	0.00	125.42
2	Arunachal Pradesh	0.00	0.00	0.00	1.07	0.00	1.07
3	Assam	0.00	0.00	0.00	66.38	0.00	66.38
4	Bihar	0.00	0.00	0.32	10.40	0.00	10.72
5	Chhattisgarh	0.00	0.00	29.69	72.87	0.00	102.56
6	Goa	0.00	0.00	0.00	12.39	0.00	12.39
7	Gujarat	6.70	647.40	9.39	2710.16	0.00	3373.65
8	Haryana	0.00	0.00	41.25	438.37	0.00	479.62

FY 2021-22							
S. No.	STATES / UTs	Small Hydro Power	Wind Power	Bio Power	Solar Power	Large Hydro Power	Total
9	Himachal Pradesh	18.00	0.00	0.00	25.88	343.00	386.88
10	Jammu & Kashmir	0.00	0.00	0.00	12.60	0.00	10.94
11	Jharkhand	0.00	0.00	0.00	18.93	0.00	18.93
12	Karnataka	0.00	192.30	0.23	206.93	45.00	444.46
13	Kerala	12.50	0.00	0.00	85.78	0.00	98.28
14	Madhya Pradesh	0.00	0.00	3.67	173.24	0.00	176.91
15	Maharashtra	1.50	12.50	0.00	307.23	0.00	321.23
16	Manipur	0.00	0.00	0.00	0.86	0.00	0.86
17	Meghalaya	0.00	0.00	0.00	0.30	0.00	0.30
18	Mizoram	0.00	0.00	0.00	0.92	0.00	0.92
19	Nagaland	0.00	0.00	0.00	0.13	0.00	0.13
20	Odisha	18.00	0.00	0.00	25.71	12.30	56.01
21	Punjab	2.55	0.00	0.00	117.77	0.00	120.32
22	Rajasthan	0.00	0.00	0.00	6639.27	0.00	6639.27
23	Sikkim	0.00	0.00	0.00	2.74	113.00	115.74
24	Tamil Nadu	0.00	258.33	2.79	539.71	0.00	800.83
25	Telangana	0.00	0.00	9.26	558.94	0.00	568.20
26	Tripura	0.00	0.00	0.00	1.33	0.00	1.33
27	Uttar Pradesh	0.00	0.00	13.89	408.16	0.00	422.05
28	Uttarakhand	4.50	0.00	0.00	193.41	0.00	197.91
29	West Bengal	0.00	0.00	1.36	3.35	0.00	4.71
30	A&N Islands	0.00	0.00	0.00	0.03	0.00	0.03
31	Chandigarh	0.00	0.00	0.00	9.20	0.00	9.20
32	Dadra & Nagar Haveli and Daman & Diu	0.00	0.00	0.00	0.17	0.00	0.17
33	Delhi	0.00	0.00	7.00	16.69	0.00	23.69
34	Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00
35	Pondicherry	0.00	0.00	0.00	4.18	0.00	4.18
36	Others	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total (MW)</b>	<b>63.75</b>	<b>1110.53</b>	<b>148.85</b>	<b>12760.52</b>	<b>513.30</b>	<b>14595.29</b>

FY 2022-23							
S. No.	STATES / UTs	Small Hydro Power	Wind Power	Bio Power	Solar Power	Large Hydro Power	Total
1	Andhra Pradesh	1.20	0.00	0.00	147.43	0.00	148.62
2	Arunachal Pradesh	2.00	0.00	0.00	0.41	0.00	2.41
3	Assam	0.00	0.00	0.00	29.99	0.00	29.99
4	Bihar	0.00	0.00	0.00	2.25	0.00	2.25
5	Chhattisgarh	0.00	0.00	0.00	430.74	0.00	430.74
6	Goa	0.00	0.00	0.00	6.54	0.00	6.54
7	Gujarat	2.25	769.70	1.47	2074.53	0.00	2847.95
8	Haryana	0.00	0.00	1.43	118.53	0.00	119.96
9	Himachal Pradesh	15.60	0.00	0.00	11.33	0.00	26.93
10	Jammu & Kashmir	2.00	0.00	0.00	2.51	0.00	4.51
11	Jharkhand	0.00	0.00	0.00	17.05	0.00	17.05
12	Karnataka	0.00	164.05	0.00	650.59	0.00	814.64
13	Kerala	24.00	0.00	0.00	398.25	7.65	429.90
14	Ladakh	1.35	0.00	0.00	0.00	0.00	1.35
15	Madhya Pradesh	24.00	324.40	3.61	84.19	0.00	436.20
16	Maharashtra	0.00	0.00	8.54	2091.88	0.00	2100.42
17	Manipur	0.00	0.00	0.00	0.03	0.00	0.03
18	Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00
19	Mizoram	9.00	0.00	0.00	20.12	0.00	29.12
20	Nagaland	2.00	0.00	0.00	0.00	0.00	2.00
21	Odisha	9.00	0.00	0.00	1.93	0.00	10.93
22	Punjab	0.00	0.00	30.62	67.19	0.00	97.81
23	Rajasthan	0.00	866.60	0.00	4490.83	0.00	5357.43
24	Sikkim	3.00	0.00	0.00	0.01	0.00	3.01
25	Tamil Nadu	0.00	150.80	1.00	1669.25	0.00	1821.05

FY 2022-23							
S. No.	STATES / UTs	Small Hydro Power	Wind Power	Bio Power	Solar Power	Large Hydro Power	Total
26	Telangana	0.00	0.00	0.63	145.55	0.00	146.18
27	Tripura	0.00	0.00	0.00	2.71	0.00	2.71
28	Uttar Pradesh	0.00	0.00	26.74	270.79	0.00	297.53
29	Uttarakhand	0.00	0.00	0.00	1.99	120.00	121.99
30	West Bengal	0.00	0.00	20.65	13.97	0.00	34.62
31	A&N Islands	0.00	0.00	0.00	0.42	0.00	0.42
32	Chandigarh	0.00	0.00	0.00	3.52	0.00	3.52
33	Dadra & Nagar Haveli and Daman & Diu	0.00	0.00	0.00	0.29	0.00	0.29
34	Delhi	0.00	0.00	25.00	7.14	0.00	32.14
35	Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00
36	Pondicherry	0.00	0.00	0.00	21.84	0.00	21.84
37	Others	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total (MW)</b>		<b>95.40</b>	<b>2275.55</b>	<b>119.69</b>	<b>12783.80</b>	<b>127.65</b>	<b>15402.08</b>

FY 2023-24							
S. No.	STATES / UTs	Small Hydro Power	Wind Power	Bio Power	Solar Power	Large Hydro Power	Total
		(MW)	(MW)	(MW)	(MW)	(MW)	(MW)
1	Andhra Pradesh	0.00	0.00	8.36	50.79	0.00	59.15
2	Arunachal Pradesh	0.00	0.00	0.00	0.15	0.00	0.15
3	Assam	0.00	0.00	0.00	8.25	0.00	8.25
4	Bihar	0.00	0.00	14.20	46.35	0.00	60.55
5	Chhattisgarh	0.00	0.00	0.00	263.57	0.00	263.57
6	Goa	0.00	0.00	1.60	16.99	0.00	18.59
7	Gujarat	0.00	1743.80	1.75	4290.32	0.00	6035.87
8	Haryana	0.00	0.00	24.27	446.56	0.00	470.83
9	Himachal Pradesh	0.00	0.00	0.00	7.74	18.00	25.74
10	Jammu & Kashmir	23.25	0.00	0.00	16.00	0.00	39.25
11	Jharkhand	0.00	0.00	14.80	56.56	0.00	71.36
12	Karnataka	0.00	724.66	5.57	303.28	0.00	1033.51
13	Kerala	10.00	1.00	0.00	261.36	0.00	272.36
14	Ladakh	2.00	0.00	0.00	0.00	0.00	2.00
15	Madhya Pradesh	0.00	0.00	0.00	1193.29	0.00	1193.29
16	Maharashtra	1.20	195.15	2.50	1526.77	0.00	1725.62
17	Manipur	0.00	0.00	0.00	0.76	0.00	0.76
18	Meghalaya	22.50	0.00	0.00	0.09	0.00	22.59
19	Mizoram	0.00	0.00	0.00	2.29	0.00	2.29
20	Nagaland	0.00	0.00	0.00	0.13	0.00	0.13
21	Odisha	0.00	0.00	0.00	42.46	0.00	42.46
22	Punjab	0.00	0.00	44.98	157.01	0.00	201.99
23	Rajasthan	0.00	2.40	0.56	4291.88	0.00	4294.84
24	Sikkim	0.00	0.00	0.00	2.35	0.00	2.35
25	Tamil Nadu	0.00	586.37	1.75	1474.95	0.00	2063.07
26	Telangana	0.00	0.00	1.30	92.13	0.00	93.43
27	Tripura	0.00	0.00	0.00	0.86	0.00	0.86
28	Uttar Pradesh	0.00	0.00	9.41	405.11	0.00	414.52
29	Uttarakhand	0.00	0.00	2.80	0.00	60.00	62.80
30	West Bengal	0.00	0.00	5.26	14.10	0.00	19.36
31	A&N Islands	0.00	0.00	0.00	0.00	0.00	0.00
32	Chandigarh	0.00	0.00	0.00	6.83	0.00	6.83
33	Dadra & Nagar Haveli and Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00
34	Delhi	0.00	0.00	0.00	38.25	0.00	38.25
35	Lakshadweep	0.00	0.00	0.00	1.70	0.00	1.70
36	Pondicherry	0.00	0.00	0.00	14.38	0.00	14.38
37	Others	0.00	0.00	0.00	0.00	0.00	0.00

FY 2023-24							
S. No.	STATES / UTs	Small Hydro Power	Wind Power	Bio Power	Solar Power	Large Hydro Power	Total
	<b>Total (MW)</b>	<b>58.95</b>	<b>3253.38</b>	<b>139.11</b>	<b>15033.26</b>	<b>78.00</b>	<b>18562.70</b>
<b>MW = Megawatt</b>							

FY 2024-25							
S. No.	STATES / UTs	Small Hydro Power	Wind Power	Bio Power	Solar Power	Large Hydro Power	Total
1	Andhra Pradesh	0.00	280.50	19.63	785.02	0.00	1085.15
2	Arunachal Pradesh	7.51	0.00	0.00	3.06	0.00	10.57
3	Assam	0.00	0.00	0.00	40.36	0.00	40.36
4	Bihar	0.00	0.00	0.00	89.11	0.00	89.11
5	Chhattisgarh	0.00	0.00	10.42	134.65	0.00	145.07
6	Goa	0.00	0.00	0.00	12.96	0.00	12.96
7	Gujarat	15.00	954.76	9.77	4951.78	0.00	5931.31
8	Haryana	0.00	0.00	27.77	589.25	0.00	617.02
9	Himachal Pradesh	31.00	0.00	0.00	109.03	700.00	840.03
10	Jammu & Kashmir	20.00	0.00	0.00	9.05	0.00	29.05
11	Jharkhand	0.00	0.00	1.04	37.47	0.00	38.51
12	Karnataka	4.00	1331.49	5.23	1134.98	0.00	2475.70
13	Kerala	0.00	7.77	0.00	516.15	100.00	623.92
14	Ladakh	2.80	0.00	0.00	0.00	0.00	2.80
15	Madhya Pradesh	0.00	350.86	20.52	1122.95	0.00	1494.33
16	Maharashtra	2.00	76.63	355.11	4437.60	0.00	4871.34
17	Manipur	0.00	0.00	0.00	0.75	0.00	0.75
18	Meghalaya	0.00	0.00	0.00	0.04	0.00	0.04
19	Mizoram	0.00	0.00	0.00	0.08	0.00	0.08
20	Nagaland	0.00	0.00	0.00	0.00	0.00	0.00
21	Odisha	0.00	0.00	5.00	128.81	0.00	133.81
22	Punjab	0.00	0.00	9.34	97.16	0.00	106.50
23	Rajasthan	0.00	12.93	80.63	6938.89	0.00	7032.45
24	Sikkim	0.00	0.00	0.00	0.52	0.00	0.52
25	Tamil Nadu	0.00	1136.37	1.17	1942.20	0.00	3079.74
26	Telangana	0.00	0.00	0.00	83.94	0.00	83.94
27	Tripura	0.00	0.00	0.00	2.78	0.00	2.78
28	Uttar Pradesh	0.00	0.00	83.00	443.74	0.00	526.74
29	Uttarakhand	15.00	0.00	6.29	17.54	0.00	38.83
30	West Bengal	0.00	0.00	3.50	126.55	0.00	130.05
31	A&N Islands	0.00	0.00	0.00	0.00	0.00	0.00
32	Chandigarh	0.00	0.00	0.00	13.33	0.00	13.33
33	Dadra & Nagar Haveli and Daman & Diu	0.00	0.00	3.75	1.65	0.00	5.40
34	Delhi	0.00	0.00	0.00	56.89	0.00	56.89
35	Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00
36	Puducherry	0.00	0.00	0.00	4.60	0.00	4.60
37	Others	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total (MW)</b>	<b>97.31</b>	<b>4151.31</b>	<b>642.17</b>	<b>23832.89</b>	<b>800.00</b>	<b>29523.68</b>

Annexure-III referred to in reply of parts-(a) to (c) of the Rajya Sabha Unstarred Question No. 3660 to be answered on 24.03.2026

State-wise details of funds released/ utilized as Central Financial Assistance for the renewable energy projects under the major ongoing schemes/ programmes of the Ministry during the last five years

(Rs. in Crore)

FY 2020-21								
States/ UTs	Solar Parks	CPSU	Rooftop Solar	PM-KUSUM	Waste to Energy	GEC	Biomass	Biogas
Andaman & Nicobar Islands			0.4					0.06
Andhra Pradesh			33.1			23.53		5.50
Arunachal Pradesh								
Assam								3.10
Bihar			1.5					
Chandigarh			0.8					
Chhattisgarh								
Dadra & Nagar Haveli and Daman & Diu								
Delhi		1.05	22.2					
Goa								0.05
Gujarat		26.60	52.3	3.95	4.72	24.57		0.17
Haryana			4.1	51.33				
Himachal Pradesh			20.6	2.80		48.54		
Jammu & Kashmir			4.9					
Jharkhand				16.05				
Karnataka				1.26		57.35	2.25	4.63
Kerala	6.74		11.7					0.65
Ladakh								
Lakshadweep								
Madhya Pradesh			31.3					5.03
Maharashtra			58.3		2.53		3.97	3.73
Manipur			4	0.36				
Meghalaya				0.28				0.10
Mizoram								
Nagaland								
Odisha				0.77				0.35
Puducherry								
Punjab			6.9	8.28				3.08
Rajasthan	61.44	485.10	22	52.06		5.53		0.22
Sikkim								
Tamil Nadu		80.50	4.4					2.56
Telangana		27.00	20.7		0.32			
Tripura			0.5	3.96				
Uttar Pradesh			19.9	15.34				0.35
Uttarakhand			4.6					0.46
West Bengal								
<b>Total</b>	<b>68.18</b>	<b>620.25</b>	<b>324.20</b>	<b>156.44</b>	<b>7.57</b>	<b>159.52</b>	<b>6.22</b>	<b>30.04</b>

FY 2021-22								
States/ UTs	Solar Parks	CPSU	Rooftop Solar	PM-KUSUM	Waste to Energy	GEC	Biomass	Biogas
Andaman & Nicobar Islands								
Andhra Pradesh			2.1		50.55		0.99	0.88
Arunachal Pradesh								
Assam			0.4					0.31
Bihar							1.75	0.15

FY 2021-22								
States/ UTs	Solar Parks	CPSU	Rooftop Solar	PM-KUSUM	Waste to Energy	GEC	Biomass	Biogas
Chandigarh								
Chhattisgarh			1.2					1.97
Dadra & Nagar Haveli and Daman & Diu								
Delhi			26.2					
Goa			3.6					
Gujarat	28.00		1214.7		13.96			1.29
Haryana			7.7	161.12	5.05		1.05	
Himachal Pradesh			13.8					
Jammu & Kashmir			20.2					
Jharkhand			6.6					
Karnataka	40.00				0.93		2.70	0.34
Kerala			36.3				0.79	0.45
Ladakh								
Lakshadweep								
Madhya Pradesh	50.84					73.16	1.27	1.66
Maharashtra			63.1	9.60	2.47		0.75	0.18
Manipur			4.7					
Meghalaya								
Mizoram	0.48							
Nagaland								
Odisha							0.13	
Puducherry								
Punjab			16.6	23.70				
Rajasthan	87.16		10.4	153.49		2.25		
Sikkim								
Tamil Nadu				20.30		59.26	0.02	
Telangana		27.37	16.1		2.02		1.20	
Tripura				7.36				
Uttar Pradesh	0.85		5.9	13.73	0.04		3.83	
Uttarakhand			10.6					
West Bengal					0.02			
<b>Total</b>	<b>207.33</b>	<b>27.37</b>	<b>1460.20</b>	<b>389.30</b>	<b>75.04</b>	<b>134.67</b>	<b>14.48</b>	<b>7.23</b>

FY2022-23								
States/ UTs	Solar Parks	CPSU	Rooftop Solar	PM KUSUM	Biomass	Biogas	Waste to Energy	GEC
Andaman & Nicobar Islands								
Andhra Pradesh			5.6				50.47	
Arunachal Pradesh				0.82				
Assam			4.9			0.11		
Bihar		1.75						
Chandigarh			2					
Chhattisgarh			3.3			3.70		
Dadra & Nagar Haveli and Daman & Diu		1.50						
Delhi			10.85					
Goa								
Gujarat	522.17		1040.21	7.83			1.38	27.97
Haryana			14.72	137.95			3.53	
Himachal Pradesh			11.7	5.85				4.02
Jammu & Kashmir			1.2	15.69				
Jharkhand			3	20.04				
Karnataka			9.93			0.12		17.50
Kerala	2.52		104.45					
Ladakh								
Lakshadweep								
Madhya Pradesh	109.36	32.25	35.47			0.29		96.77

FY2022-23								
States/ UTs	Solar Parks	CPSU	Rooftop Solar	PM KUSUM	Biomass	Biogas	Waste to Energy	GEC
Maharashtra	12		58.95	247.60	1.75	3.04		5.08
Manipur				0.23				
Meghalaya								
Mizoram	1.28		0.8					
Nagaland				0.20				
Odisha			0.6		0.40	0.47		
Puducherry			0.01					
Punjab			46.2	31.11	1.73	2.11		
Rajasthan			96.31	247.63		0.10		10.85
Sikkim								
Tamil Nadu			20.54		1.03	0.34		87.81
Telangana			43.9				0.33	
Tripura				0.12				
Uttar Pradesh	28.78		5.92	82.30			1.82	
Uttarakhand			1.84	4.00				
West Bengal			10.2				0.07	
<b>Total</b>	<b>676.11</b>	<b>35.50</b>	<b>1532.60</b>	<b>801.37</b>	<b>4.91</b>	<b>10.28</b>	<b>57.60</b>	<b>250.00</b>

FY 2023-24								
States/ UTs	Solar Parks	CPSU	Rooftop Solar	PM KUSUM	Biomass	Biogas	Waste to Energy	GEC
Andaman & Nicobar Islands			0.01					
Andhra Pradesh		22.45	4.5				2.74	47.54
Arunachal Pradesh				2.12		0.39		
Assam			2.11			1.26		
Bihar			9.8					
Chandigarh			3.34					
Chhattisgarh	14.3		1.43			0.95		
Dadra & Nagar Haveli and Daman & Diu						0.11		
Delhi			6.12			0.23		
Goa			0.3				3.00	
Gujarat	505.13	145.91	644.91	28.72		8.14		23.85
Haryana			24.64	429.78				
Himachal Pradesh			2.4					40.50
Jammu & Kashmir								
Jharkhand				2.36				
Karnataka		112.35	11.68	2.38		6.77	6.61	147.12
Kerala			199.89	28.53				
Ladakh								
Lakshadweep								
Madhya Pradesh	59.26		31.39	0.80		6.97	0.84	22.26
Maharashtra			314.75	326.22	0.07	13.02	0.56	
Manipur			0.9	0.17		0.22		
Meghalaya				0.31		0.22		
Mizoram								
Nagaland				0.18		0.18		
Odisha			3.08	3.44		0.32		
Puducherry			0.39					
Punjab			23.83	5.41		2.34		
Rajasthan	97.51	692.07	104.08	49.41	1.97	0.35		53.73
Sikkim								
Tamil Nadu		80.97	13.94	2.59		0.47	2.36	
Telangana		27.39	23.24			0.29		
Tripura			0.04	17.81		0.70		
Uttar Pradesh	39.30		61.06	92.13		1.84	4.71	
Uttarakhand			10.77			0.77		
West Bengal					2.14			

FY 2023-24								
States/ UTs	Solar Parks	CPSU	Rooftop Solar	PM KUSUM	Biomass	Biogas	Waste to Energy	GEC
<b>Total</b>	<b>715.50</b>	<b>1081.14</b>	<b>1498.60</b>	<b>992.36</b>	<b>4.18</b>	<b>45.54</b>	<b>20.82</b>	<b>334.99</b>

FY 2024-25									
States/ UTs	Solar Parks	CPSU	PM-Surya Ghar	PM KUSUM	PM JANMAN	Biomass	Biogas	Waste to Energy	GEC
Andaman & Nicobar Islands			0.09						
Andhra Pradesh	83.90		111.42		0.37	1.84		0.72	0.25
Arunachal Pradesh				1.91			0.31		
Assam			64.33						
Bihar		0.70	53.76						
Chandigarh			6.28						
Chhattisgarh	2.80		8.80				0.72		
Dadra & Nagar Haveli and Daman & Diu			0.67						
Delhi		0.41	10.75						
Goa			14.47					0.03	
Gujarat		342.20	3251.13	59.95				3.06	17.77
Haryana			207.42	303.40		2.04	0.11	7.43	
Himachal Pradesh			18.41	1.73					
Jammu & Kashmir			59.85	12.90					
Jharkhand			19.37	48.73	6.43				
Karnataka			81.01	0.89	0.63	4.00	0.95	8.30	24.65
Kerala	7.40		801.27	1.72			0.04		
Ladakh			2.67						
Lakshadweep			1.97						
Madhya Pradesh	73.9		266.92				3.83	10.20	
Maharashtra			1248.62	1619.00			27.77	10.20	
Manipur			2.56	0.17					
Meghalaya			0.08						
Mizoram	2.24		1.46	0.84					
Nagaland			0.16						
Odisha			25.30				0.26		
Puducherry			5.11						
Punjab			81.18	13.09		7.60	2.21		
Rajasthan	48.5	211.30	321.04	295.20				1.69	
Sikkim			0.02						
Tamil Nadu		1.76	172.64	6.48			4.95	15.18	10.47
Telangana		1.30	89.52		0.44		0.85	5.37	
Tripura			1.14	9.31	5.96		0.91		
Uttar Pradesh	155.1		684.83	173.01		0.51	0.58	23.79	292.93
Uttarakhand			163.26	15.60			1.29	0.20	
West Bengal			0.10				0.01		
<b>Total</b>	<b>373.84</b>	<b>557.67</b>	<b>7777.61</b>	<b>2563.93</b>	<b>13.83</b>	<b>15.99</b>	<b>44.79</b>	<b>86.17</b>	<b>346.07</b>

**Annexure-IV referred to in reply of part-(d) of the Rajya Sabha Unstarred Question No. 3660 to be answered on 24.03.2026**

**The Government of India has taken several steps and initiatives to promote and accelerate renewable energy capacity in the country including for development of the Energy Storage capacity and to strengthen grid integration, to realize the commitment of 500 GW non-fossil energy capacity by 2030. These include, inter-alia, the following:**

- Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar, Wind, Wind-Solar Hybrid and Firm & Dispatchable Renewable Energy (FDRE) projects have been issued.
- To boost RE consumption, Renewable Purchase Obligation (RPO) followed by Renewable Consumption Obligation (RCO) trajectory has been notified till 2029-30. The RCO which is applicable to all designated consumers under the Energy Conservation Act 2001 will attract penalties on non-compliance. RCO also includes specified quantum of consumption from Decentralized Renewable Energy sources.
- Foreign Direct Investment (FDI) has been permitted up to 100 percent under the automatic route.
- Schemes such as Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM), PM Surya Ghar Muft Bijli Yojana, National Programme on High Efficiency Solar PV Modules, New Solar Power Scheme (for Tribal and PVTG Habitations/Villages) under Pradhan Mantri Janjati Adivasi Nyaya Maha Abhiyan (PM JANMAN) and Dharti Aabha Janjatiya Gram Utkarsh Abhiyan (DA JGUA), National Green Hydrogen Mission, Viability Gap Funding (VGF) Scheme for Offshore Wind Energy Projects have been launched.
- Scheme for setting up of Solar Parks and Ultra Mega Solar Power projects is being implemented to provide land and transmission to RE developers for installation of RE projects at large scale.
- Waiver on Inter State Transmission System (ISTS) charges for renewable energy projects including green hydrogen projects, with certain timelines and conditions.
- Laying of new transmission lines and creating new sub-station capacity has been funded under the Green Energy Corridor Scheme for evacuation of renewable power.
- Quality Control Orders for Solar Photovoltaic products (i.e., Solar PV Modules, Solar PV Inverters & Storage Battery) and Solar Water Heating systems notified.
- Issued Guidelines for Resource Adequacy Planning Framework for India.
- Electricity (Rights of Consumers) Rules, 2020 has been issued for net-metering up to five hundred Kilowatt or up to the electrical sanctioned load, whichever is lower.
- “National Repowering and Life Extension Policy for Wind Power Projects, 2023” has been issued.
- The Offshore Wind Energy Lease Rules, 2023 have been notified vide Ministry of External Affairs notification dated 19th December 2023, to regulate the grant of lease of offshore areas for development of offshore wind energy projects.
- The Revised Guidelines for installation of prototype wind turbine models issued on 12th June 2025.
- Procedure for inclusion/updating Wind Turbine Model in the Revised List of Models and Manufacturers of Wind Turbines (RLMM) issued on 31st July 2025. The amendment renames RLMM as Approved List of Models and Manufacturers [ALMM (Wind)] and mandates usage of listed components such as Blade, Tower, Generator, Gearbox and Special Bearings (Main, Pitch and Yaw Bearing) along with mandatory relocation of data centres within India and prohibition of real-time data transfer outside India.
- The Standard Operating Procedure (SOP) for ALMM-Wind and ALMM – Wind Turbine Components (ALMM-WTC) issued on 29<sup>th</sup> October 2025, detailing the end-to-end process for application, verification, factory inspection, component evaluation and model enlistment.

- Standard & Labelling (S&L) programs for Solar Photovoltaic modules and Grid-connected Solar Inverters have been launched.
- “The Electricity (Late Payment Surcharge and related matters) Rules (LPS rules) have been notified.
- Electricity (Promoting Renewable Energy Through Green Energy Open Access) Rules, 2022, notified on 06<sup>th</sup> June 2022 with objective of ensuring access to affordable, reliable, and sustainable green energy for all. Green Energy Open Access is allowed to any consumer with contract demand of 100 kW or above through single or multiple single connection aggregating Hundred kW or more located in same electricity division of a distribution licensee.
- Green Term Ahead Market (GTAM) has been launched to facilitate sale of Renewable Power through exchanges.
- Government has issued orders that power shall be dispatched against Letter of Credit (LC) or advance payment to ensure timely payment by distribution licensees to RE generators.

**Various steps/ initiatives taken for development of the Energy Storage capacity and to strengthen grid integration include, inter alia, the following:**

- Notified Guidelines for Procurement and Utilization of Battery Energy Storage System (BESS) as part of Generation, Transmission and Distribution assets, along with Ancillary Services.
- Issued National Framework to promote Energy Storage Systems in the country.
- Issued Guidelines to promote Pumped Storage Projects (PSP).
- Granted 100% waiver of Inter-State Transmission System (ISTS) charges for PSP for which construction work is awarded on or before June 30, 2028
- Granted 100% ISTS charges waiver for co-located BESS projects, commissioned on or before 30<sup>th</sup> June 2028, with certain conditions.
- Approved a Viability Gap Funding (VGF) Scheme for the development of large-scale BESS with an outlay of ₹3,760 crore for the development of 13,220 MWh. Approved another VGF Scheme for 30 GWh, funded through ₹5,400 crore from the Power System Development Fund (PSDF).
- Issued an Advisory on ‘Co-locating Energy Storage Systems with Solar Power Projects to enhance grid stability and cost efficiency’.
- Central Electricity Authority (CEA) has published a plan for Transmission System for Integration of over 500 GW renewable energy capacity by 2030 covering all renewable energy rich States.
- Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations lay down the minimum technical requirements for the RE generating plants to ensure safe, secure and reliable operation of the grid. The compliances to the said regulations by RE plants are verified jointly by Central Transmission Utility (CTUIL) and Grid-India/Regional Load Despatch Centres (RLDCs) before granting connectivity/ interconnection to the national grid.
- Indian Electricity Grid Code mandates that RE plants participate in the primary and secondary frequency control in case of contingencies.
- Establishment of Renewable Energy Management Centres (REMCs) for real-time forecasting, scheduling, and monitoring of RE generation across 12 RE-rich regions.