

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 2214**  
ANSWERED ON 08/08/2023

**RENEWABLE ENERGY IN THE COUNTRY**

2214. DR. LAXMIKANT BAJPAYEE

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

- (a) the total renewable energy produced in the country in 2013 and the total production now;
- (b) the measures taken/proposed to be taken and schemes introduced to promote renewable energy sources;
- (c) the steps taken/being take by Government to implement green energy corridors; and
- (d) the amount of subsidy allocated and disbursed since 2014 for adopting renewable energy sources, State/UT-wise?

**ANSWER**

**THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER**  
**(SHRI R.K. SINGH)**

- (a) The installed Renewable energy capacity has increased from 28.07 GW in March 2013 to 176.49 GW in June 2023.

RE Generation has increased from 0.057 MU in 2012-13 to 365.60 BU in 2022-23 (upto March, 2023).

- (b) The Government has taken several measures to promote renewable energy in the country, including, inter-alia, the following:

- Permitting Foreign Direct Investment (FDI) up to 100 percent under the automatic route,
- Waiver of Inter State Transmission System (ISTS) charges for inter-state sale of solar and wind power for projects to be commissioned by 30<sup>th</sup> June 2025,
- Declaration of trajectory for Renewable Purchase Obligation (RPO) up to the year 2029-30,
- Setting up of Ultra Mega Renewable Energy Parks to provide land and transmission to RE developers for installation of RE projects at large scale,
- Schemes such as Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM), Solar Rooftop Phase II, 12000 MW CPSU Scheme Phase II, etc,
- Laying of new transmission lines and creating new sub-station capacity under the Green Energy Corridor Scheme for evacuation of renewable power,
- Notification of standards for deployment of solar photovoltaic system/devices,
- Setting up of Project Development Cell for attracting and facilitating investments,
- Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar PV and Wind Projects.
- 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.
- Notification of Promoting Renewable Energy through Green Energy Open Access Rules 2022.
- Notification of “The Electricity (Late Payment Surcharge and related matters) Rules (LPS rules).
- Launch of Green Term Ahead Market (GTAM) to facilitate sale of Renewable Energy Power through exchanges.
- National Green Hydrogen Mission launched with an aim to make India a global hub for production, utilization and export of Green Hydrogen and its derivatives.

- (c) The Ministry of New and Renewable Energy (MNRE) is implementing Green Energy Corridor (GEC) schemes, under which Intra-State Transmission System (InSTS) has been planned in total 10 States.

The Phase-I of GEC scheme is being implemented by 8 States of Andhra Pradesh, Gujarat, Himachal Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, and Tamil Nadu) in order to facilitate integration of large-scale renewable generation capacity of aggregate 24 GW. The estimated project cost is Rs. 10141.68 crore with 40% Central Grant by MNRE, i.e. Rs. 4056.67 crore. Under Phase-I, 9,767 circuit kilometres (ckm) of transmission lines and 22,689 Mega Volt-Amperes (MVA) capacity of substations have been planned.

The Phase-II of GEC scheme is being implemented by 7 States of Gujarat, Himachal Pradesh, Karnataka, Kerala, Rajasthan, Tamil Nadu and Uttar Pradesh) in order to facilitate integration of large-scale renewable generation capacity of aggregate 20 GW. The estimated project cost is Rs. 12031.33 crore with 33% Central Grant by MNRE, i.e. Rs. 3970.34 crore. Under Phase-II, 10,753 ckm of transmission lines and 27,546 MVA capacity of substations have been planned.

(d) The State-wise list of subsidy allocated and disbursed since 2014 for adopting renewable energy sources is given at **Annexure**.

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Annexure referred to in reply to part (d) of Rajya Sabha Unstarred Question No. 2214 for 08/08/2023 regarding 'Renewable energy in the country'

**State-wise list of subsidy allocated and disbursed since 2014-15 upto 2023-24 (July 2023)**

(Rs. In Crores)											
S No.	State / UT Name	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24 (upto 31.07.2023)
1	MAHARASHTRA	229.04	78.22	155.21	8.28	11.64	55.94	106.61	75.09	409.26	104.04
2	TELANGANA	98.04	35.44	39.08	0	0	28.17	23.12	20.81	56.94	1.03
3	JAMMU AND KASHMIR	61.79	90.92	49.67	14.94	75.01	21.39	4.89	51.76	29.48	0
4	PUNJAB	39.96	29.19	9.19	1.28	0.62	22.23	23.34	45.78	87.81	0.88
5	RAJASTHAN	113.3	249.64	86.85	7.38	0	88.6	105.6	166.11	382.88	109.96
6	KERALA	31.93	32.76	36.17	19.81	10.41	3.57	12.37	37.16	106.61	78.98
7	ARUNACHAL PRADESH	15.68	5.47	20.08	22.72	5.94	24.07	25.42	11.36	11.14	0
8	TRIPURA	1.94	5.46	14.57	0	0	12.98	18.48	16.88	2.72	0
9	NAGALAND	9.9	7.89	17.97	2.65	0.33	16.55	10.69	5.86	0.87	0
10	SIKKIM	3.09	0.84	2.87	0	0	0.05	0	0.03	1.37	0
11	MEGHALAYA	8.39	8.62	20.52	14.86	0.38	7.14	1.23	0	0	1.2
12	UTTARAKHAND	8.35	46.38	38	3.4	0.07	23.99	11.59	22.68	12.63	0.74
13	WEST BENGAL	17.17	9.44	1.36	0	0	13.38	0	0.51	12.38	2.1
14	HARYANA	52.22	36.26	16.24	0.16	9	18.51	55.45	178.35	162.13	37.54
15	GUJARAT	36.09	58.65	74.09	26.49	15.2	124.33	106.18	1237.79	1604.91	342.22
16	ANDAMAN AND NICOBAR	0.09	0.03	0.05	0	0	0	1.01	0	0	1.75
17	ODISHA	27.92	11.03	21.17	0	0	11.04	1.12	5.66	46.69	10.8
18	TAMIL NADU	52.64	194.26	169.28	0.13	0.02	55.44	30.28	158.85	112.37	4.62
19	MANIPUR	1.63	14.65	12.53	0	0	16.86	23.06	14.89	6.09	0.31
20	CHANDIGARH	11.32	10.03	9.68	0	0	5.13	0.85	0	2	0
21	JHARKHAND	7.61	16.13	12.87	0	0	10.84	16.05	6.63	58.19	0
22	UTTAR PRADESH	61.01	55.66	28.11	0.19	0.17	64.33	74.11	39.11	147.64	18.84
23	KARNATAKA	51.41	57.97	50.06	0.04	6.64	16.48	70.71	3.97	145.77	10.83
24	CHHATTISGARH	36.09	42.64	72.92	1.77	0	5.16	2.5	3.18	27.56	0.94
25	DELHI	31.64	43.18	166.03	5.5	0.32	11.63	56.28	99.15	4.92	2.55
26	ANDHRA PRADESH	1.86	124.68	62.03	1.68	0.04	30.66	62.32	5.44	148.48	10.29
27	ASSAM	16.15	15.32	60.28	0	0	33.29	3.11	10.2	15.89	0.1
28	MIZORAM	8.98	10.63	22.38	0	7.89	16.12	20.33	3.29	8.46	0
29	HIMACHAL PRADESH	23.99	53.08	36.39	4.64	4.12	32.04	73.98	33.44	15.63	42.93
30	PUDUCHERRY	0.01	0.006	1.11	0	0	0.79	0	0.03	0	0
31	GOA	1.22	1.57	0.17	0	0	0	0.08	3.6	0	0
32	MADHYA PRADESH	30.26	6.95	40.16	0	0	94.84	49.42	76.16	241.38	27.36
33	BIHAR	6.74	16.19	0	0	0	1.38	1.49	1.21	0	3.25
34	LADAKH	0	0	0	0	0	0	9.31	18.41	8.79	0
35	DADAR AND NAGAR & DAMAN AND DIU	0.06	0	0	0.34	0			0	0	0
36	LAKSHADWEEP	0.07	3.78	0.45	0	0			0	0	0
37	CENTRAL AGENCY*	1376.54	1942.13	1193.28	755.85	954.5	2564.23	1875.56	4333.76	1875.06	1306.55
		<b>2474.13</b>	<b>3315.096</b>	<b>2540.82</b>	<b>892.11</b>	<b>1102.3</b>	<b>3431.16</b>	<b>2876.54</b>	<b>6687.15</b>	<b>3870.99</b>	<b>813.26</b>

\* Payment to CPSUs, Autonomous Bodies, Developers, Institute, Administrative Charges etc.