GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 2689
ANSWERED ON 12/08/2025
GREEN ENERGY PROJECTS

2689. SHRI DEBASHISH SAMANTARAY

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

(a) the details of ongoing green energy projects;
(b) the details of capacity addition, State-wise;
(c) the international collaboration in solar and wind energy;
(d) the funding pattern for solar parks; and
(e) the challenges in grid integration?

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

(SHRI SHRIPAD YESSO NAIK)

(a) As on 30.06.2025, a total of 242.78 GW non-fossil fuel based electricity capacity has been installed in the country which includes 116.25 GW solar power, 51.67 GW wind power, 11.60 GW bio-power and 54.48 GW hydro power and 8.78 GW nuclear power. Details of major ongoing renewable energy schemes/programmes being implemented by the Ministry of New and Renewable Energy are given at **Annexure-I.**

(b) Details of the State/UT-wise status of installed electricity capacity from renewable energy sources as on 30.06.2025 are given at **Annexure-II.**

(c) National Institute of Solar Energy (NISE) has signed Memorandum of Agreement (MoA) with Physicalisch-Technische Bundesanstalt (PTB), Germany under the umbrella of Indo-German Cooperation, for fostering the quality infrastructure to assure the quality, performance and safety of solar PV systems.

National Institute of Wind Energy (NIWE) has signed MoA with University of Massachusetts (UMASS) USA to develop a practical guide for Indian planning authorities with focus on Effective community engagement (throughout offshore wind project phases) for fostering the growth of Offshore Wind in India. NIWE is also collaborating with Denmark under Indo-Danish Energy Partnership (INDEP) for spatial planning, supply chain study, standards and testing for offshore wind.

Further, the Ministry has also signed MoUs with 36 countries for cooperation in the field of renewable energy including solar and wind energy.

(d) The funding pattern for solar parks under the 'Development of Solar Parks and Ultra-Mega Solar Power Projects' scheme, is as follows:
(i) Up to Rs.25 lakh per Solar Park, for preparation of Detailed Project Report (DPR).
(ii) Rs.20 lakh per MW or 30% of the project cost, whichever is lower, for development of infrastructure.

(e) Certain challenges related to grid integration that are highlighted by the stakeholders of renewable energy are intermittent nature of renewable energy, grid infrastructure availability, Right of Way (RoW) issues, certain delays in transmission connectivity, forest clearances.

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Annexure-I

Annexure-I referred to in reply of part (a) of the Rajya Sabha Unstarred Question No. 2689 to be answered on 12.08.2025

Details of the major ongoing renewable energy schemes/programmes being implemented by the Ministry of New and Renewable Energy

1. PM-Surya Ghar: Muft Bijli Yojana to help provide free/low-cost electricity to one crore households by installation of Rooftop Solar, by 2026-27 with a total Central Financial Outlay of Rs. 75,021 crore.
2. PM-KUSUM Scheme to promote small Grid Connected Solar Energy Power Plants, stand-alone solar powered agricultural pumps and solarisation of existing grid connected agricultural pumps. The scheme is not only beneficial to the farmers but also States and DISCOMs. States will save on subsidy being provided for electricity to agriculture consumers and DISCOMs get cheaper solar power at tail end saving transmission and distribution losses.
3. Scheme for Development of Solar Parks and Ultra-mega Solar Power Projects with a target of setting up 40,000 MW capacity. Under the scheme, the infrastructure such as land, roads, power evacuation system water facilities are developed with all statutory clearances/approvals. Thus, the scheme helps expeditious development of utility-scale solar projects in the country.
4. Production Linked Incentive scheme 'National Programme on High Efficiency Solar PV Modules' for achieving manufacturing capacity of Giga Watt (GW) scale in High Efficiency Solar PV modules (Tranche- I & II).
5. Central Public Sector Undertaking (CPSU) Scheme Phase-II (Government Producer Scheme) for setting up 12,000 MW grid-connected Solar Photovoltaic (PV) Power Projects by Government Producers, using domestically manufactured solar PV cells and modules, with Viability Gap Funding (VGF) support, for self-use or use by Government/ Government entities, either directly or through Distribution Companies (DISCOMS).
6. National Green Hydrogen Mission launched with an outlay of Rs. 19,744 crore with aim to make India a Global Hub for production, utilization and export of Green Hydrogen and its derivatives.
7. Green Energy Corridors (GEC): to create intra-state and inter-state transmission system for renewable energy projects. Central Financial Assistance (CFA) is provided to set up transmission infrastructure for evacuation of Power from Renewable Energy projects.
8. Viability Gap Funding (VGF) Scheme for Offshore Wind Energy Projects for installation and commissioning of 1 GW of Offshore Wind Energy Projects (500 MW each off the coast of Gujarat and Tamil Nadu), also for upgradation of two ports to meet logistics requirements for offshore wind energy projects.
9. Bio-Energy Programme:
    - Waste to Energy Programme : Programme on Energy from Urban, industrial and Agricultural Wastes/Residues
    - Biomass Programme: Scheme to Support Manufacturing of Briquettes & Pellets and Promotion of Biomass (non-bagasse) based cogeneration in Industries.
    - Biogas Programme : for promotion of family type Biogas plants
10. 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) with a provision for providing off-grid Solar Lighting where electricity supply through grid is not techno-economically feasible.

Annexure-II

Annexure-II referred to in reply of part (b) of the Rajya Sabha Unstarred Question No. 2689 to be answered on 12.08.2025

State/UT-wise and source-wise details of installed electricity capacity from renewable energy sources as on 30.06.2025

(In MW)

S. No.	STATE / UT	Small Hydro Power	Wind Power	Bio Power	Solar Power	Large Hydro	Total
1	Andhra Pradesh	163.31	4397.78	594.02	5507.48	2810.00	13472.59
2	Arunachal Pradesh	140.61		0.00	14.85	1115.00	1270.46
3	Assam	34.11		2.00	243.34	350.00	629.45
4	Bihar	70.70		140.22	328.34		539.26
5	Chhattisgarh	76.00		285.42	1491.30	120.00	1972.72
6	Goa	0.05		1.94	60.04		62.03
7	Gujarat	106.64	13816.68	129.85	21451.33	1990.00	37494.50
8	Haryana	73.50		311.47	2151.39		2536.36
9	Himachal Pradesh	1000.71		10.20	251.90	11181.02	12443.83
10	Jammu & Kashmir	189.93		0.00	74.49	3360.00	3624.42
11	Jharkhand	4.05		20.14	199.87	210.00	434.06
12	Karnataka	1284.73	7714.74	1916.05	9925.44	3689.20	24530.16
13	Kerala	276.52	71.27	2.50	1787.94	1964.15	4102.38
14	Ladakh	45.79		0.00	7.80	89.00	142.59
15	Madhya Pradesh	123.71	3195.15	155.46	5570.07	2235.00	11279.39
16	Maharashtra	384.28	5307.71	2998.30	12575.27	3047.00	24312.56
17	Manipur	5.45		0.00	13.79	105.00	124.24
18	Meghalaya	55.03		13.80	4.28	322.00	395.11
19	Mizoram	45.47		0.00	30.39	60.00	135.86
20	Nagaland	32.67		0.00	3.17	75.00	110.84
21	Odisha	115.63		64.22	706.34	2154.55	3040.74
22	Punjab	176.10		576.59	1427.23	1096.30	3276.22
23	Rajasthan	23.85	5208.75	207.52	31967.69	411.00	37818.81
24	Sikkim	55.11		0.00	7.56	2282.00	2344.67
25	Tamil Nadu	123.05	11830.37	1046.62	10570.88	2178.20	25749.12
26	Telangana	90.87	128.10	221.67	4842.10	2405.60	7688.34
27	Tripura	16.01		0.00	21.71		37.72
28	Uttar Pradesh	50.60		2309.14	3427.49	501.60	6288.83
29	Uttarakhand	233.82		149.57	593.07	4285.35	5261.81
30	West Bengal	98.50		351.86	320.62	1341.20	2112.18
31	A&N Islands	5.25		0.00	30.62		35.87
32	Chandigarh			0.00	78.85		78.85
33	Dadra & Nagar Haveli and Daman & Diu			3.75	97.90		101.65
34	Delhi			84.00	344.30		428.30
35	Lakshadweep			0.00	4.97		4.97
36	Puducherry			0.00	69.01		69.01
37	Others		4.30	0.00	45.01		49.31
	Total (MW)	**5102.05**	**51674.85**	**11596.31**	**116247.83**	**49378.17**	**233999.21**

MW = Megawatt