

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 1413**  
ANSWERED ON 15.12.2022

**GENERATION OF RENEWABLE ENERGY**

1413. SHRI MALOOK NAGAR

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

- (a) the details of the schemes being implemented by the Government to increase the generation of renewable energy in view of adverse effects of conventional energy on the environment;
- (b) the increase in the generation of renewable energy recorded after the implementation of the said schemes; and
- (c) the quantum of energy targeted to be generated every year including the current year?

**ANSWER**

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

(a) The details of major renewable energy schemes/ programmes being implemented by the Ministry in the country to promote renewable energy sources are given in **Annexure-I**.

(b) As per information provided by Central Electricity Authority (CEA), the details of generation from renewable energy (RE) sources (including Large Hydro) during the last three years i.e., 2019-20 to 2021-22 , and the current year 2022-23 (upto October,2022) are given below:

<b>Details of RE Generation in MU</b>	
<b>Years</b>	<b>(*)RE Generation (Including Large Hydro)</b>
2019-20	294106.14
2020-21	297547.03
2021-22	322539.63
2022-23 (Upto October,2022)	243496.32

(\*)- Large Hydro generation excludes Import from Bhutan

(c) As per information provided by Central Electricity Authority (CEA), a total generation of 371.70 Billion Units (BU) has been envisaged from the renewable energy sources (including large Hydro) during the year 2023-24 which is around 11% increase over the envisaged generation of 334.67 BU during the year 2022-23.

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**Annexure-I referred to in reply to part (a) of Lok Sabha Unstarred Question No. 1413 for 15/12/2022 regarding 'Generation of Renewable Energy'**

**Details of the ongoing major Renewable Energy Schemes / Programmes**

1. 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, transmission system (internal and external), pooling stations, water feasibility is developed with all statutory clearances/ approvals. Thus the solar project developers have plug and play benefit.
2. 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 with Viability Gap Funding (VGF) support, for self-use or use by Government/ Government entities, either directly or through Distribution Companies (DISCOMS).
3. 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).
4. 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.
5. Rooftop Solar Programme Phase II for grid connected solar rooftop power plants. Under this Programme, subsidy is provided for residential sector and performance linked incentives to DISCOMS for achieving capacity addition in rooftop solar above baseline.
6. Green Energy Corridors (GEC): to create intra-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 in total ten States (considering both the phases of GEC).
  - (i) Intra-State Transmission System Green Energy Corridor Phase-I
  - (ii). Intra-State Transmission System Green Energy Corridor Phase-II
7. Waste to Energy Programme : Programme on Energy from Urban, industrial and Agricultural Wastes/Residues
8. Biomass Programme: Scheme to Support Manufacturing of Briquettes & Pellets and Promotion of Biomass (non-bagasse) based cogeneration in Industries.
9. Biogas Programme : for promotion of family type Biogas plants
10. Renewable Energy Research and Technology Development (RE-RTD) Programme (Support Programme).
11. Human Resource Development Scheme with components such as short term trainings & skill development programmes, fellowships, internships, support to lab upgradation for RE and renewable energy chair.
12. Information & Public Awareness (I&PA)