

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 2401
TO BE ANSWERED ON 16.03.2017

RURAL ELECTRIFICATION THROUGH RENEWABLE ENERGY RESOURCES

2401. SHRI M.I. SHANAVAS :

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

- (a) the flagship programme of the Union Government which aims at rural electrification through renewable energy resources in Kerala;
- (b) the amount spent for the generation of renewable energy in Kerala during each of the last three years and the current year;
- (c) whether there are any specific schemes and programmes to give fillip to the generation of various renewable energies in the country;
- (d) if so, the details thereof;
- (e) whether there is any monitoring mechanism for the effective implementation of these schemes and programmes; and
- (f) if so, the details thereof?

ANSWER

THE MINISTER OF STATE FOR POWER, COAL, NEW & RENEWABLE ENERGY AND
MINES (INDEPENDENT CHARGE) (SHRI PIYUSH GOYAL)

(a): No Madam. There is no flagship programme which aims at rural electrification through renewable energy in Kerala.

(b): Central Financial Assistance released under various MNRE Ministry of New & Renewable Energy programmes to Kerala during the last three years and current year is given in Annexure I.

(c) & (d): Brief details of the major schemes/programmes implemented by MNRE for the development of renewable energy sector are given in the statement enclosed at Annexure II.

(e) & (f): Yes Madam. The implementing agencies monitor the programmes at implementation stage. MNRE also gets these projects monitored through third party.

Annexure I

Annexure I Referred to in Reply to Part (b) of Lok Sabha Starred Question No. 2401 to be answered on 16.03.2017 regarding Rural Electrification through Renewable Energy Resources

Central Financial Assistance released under various MNRE programmes to Kerala during the last three years and the current year (in Rs lakhs).

<i>Year</i>	<i>Solar Power Plant</i>	<i>Solar Water Heater</i>	<i>Solar Water Pump</i>	<i>HLS Systems</i>	<i>Biogas Plant</i>	<i>Solar Lantern</i>
2013-14	-	83.09	-	-	208.83	247.5
2014-15	1874	104.83	-	-	315.33	430.00
2015-16	1020	179.33	7.93	08.00	465.64	140.00
2016-17 (current year)	3451.32	177.9	-	324.85	23.86	-
Total (in lakhs)	6345.32	545.15	7.93	332.84	1013.66	817.5

Annexure II referred to in reply to parts (c) & (d) of Lok Sabha Unstarred Question No. 2401 for 16/03/2017 regarding 'Rural Electrification through Renewable Energy Resources.'

Details of the Renewable Energy Schemes / Programmes

1. Grid Interactive and Distributed Renewable Energy Power:

- **Wind Power:** MW-scale Wind Farms.
- **Bio-power:** Biomass power/ Cogeneration.
- **Small Hydro Power:** Small hydro power plants up to 25 MW capacity.
- **Solar Power:** Grid-interactive -Solar Thermal and SPV power generation plants, Solar Roof Top programme, Solar park scheme.
- **Energy Storage:** for proper scheduling and forecasting of Power generation and stabilization of the Grid.
- **Green Energy Corridors:** transmission Infrastructure for evacuation of Power from Renewable Energy Sources..
- **Support to Solar Energy Corporation of India.**
- **Demonstration of Renewable Energy Application.**

2. Off-Grid/ Distributed and Decentralized Renewable Power:

- **Solar Power** (To promote the solar devices such as Solar Lighting Systems, Solar Pumps, Solar Power Packs and Concentrated Solar Technology systems.
- **Small wind and Hybrid Systems:**
- **Water Mills and Water Hydrants**
- **Energy Storage** for Energy Security and energy access in remote areas.
- **Biomass(non-bagasse) cogeneration/ U&I Waste to Energy**
- **Remote Village Electrification Programme** : provision of lighting/ electricity in the un-electrified remote villages/ hamlets
- **Biomass Gasifier for Rural Energy / Industrial Energy.**
- **Biogas Programme:** setting up of Family Type biogas plants for cooking/ lighting/ manure/ small scale power generation
- **Solar Thermal Systems:** deployment of decentralized solar thermal systems/ devices (mainly solar cookers / driers for cooking, drying farm produce) under National Solar Mission.
- **Green Buildings** - incorporating active renewable energy systems and passive designs

- **Solar Cities** – Planning for reducing their conventional energy consumption through energy conservation and use of renewable energy devices/ systems

3. Research, Development and International Cooperation:

- Supporting research and development projects at premier institutions and industries on different aspects of new and renewable energy technologies.
- Human Resource Development and Training Programme
- International relations international cooperation including Investment Promotion
- New and Innovative Projects

4. Support to Autonomous Bodies: Support to Institutions under the aegis of MNRE