

have put in place policies for promotion of renewable energy keeping in view the necessity to reduce greenhouse gasses and preserve the environment. The policy includes incentives such as accelerated depreciations, waiver of Inter State Transmission System (ISTS) charges and losses, viability gap funding (VGF), permitting Foreign Direct Investment up to 100 per cent under the automatic route, issue of standard bidding guidelines to enable the distribution licensees to procure power at competitive rates in cost effective manner.

The State Government of Haryana has notified a Solar Power Policy 2016 with a target of setting up 4030 MW of capacity by 2022 to promote solar energy in state of Haryana. Also, Government of Haryana has notified a Bio Energy Policy-2018 to promote biomass energy projects in the State with a target to set up projects of 150 MW by 2022.

(c) A total of 519.43 MW of grid connected renewable energy capacity has been installed in the state of Haryana as on 30.06.2019.

A total of 655.83 Million Units (MU) of power was produced from various sources of renewable energy in the state of Haryana including the urban areas in the year 2018-19.

#### **Steps to boost off grid renewable power generation**

2661. SHRI TIRUCHI SIVA: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether Government has taken any steps to boost off-grid renewable power generation in the last three years;

(b) if so, the details thereof and if not, the reasons therefor; and

(c) the details of the budgetary allocations made in this regard over the last three years, year-wise?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI RAJ KUMAR SINGH): (a) and (b) The Ministry of New and Renewable Energy is implementing various schemes such as National Biogas and Manure Management Programme, Biogas Power (off-grid) Generation Programme, Biomass Gasifier Programme, Unnat Chulha Abhiyan (UCA) Programme, Off-grid and Decentralized solar PV Applications Programme, Atal Jyoti Yojana, 70 lakh Solar Study Lamp Scheme, Concentrating Solar Thermal Programme, etc., to promote off-grid renewable energy generation in the country during the last three years.

(c) The details of budget allocated for off-grid renewable energy for the last three years are given below:—

2016-17	:	₹	983 Crore
2017-18	:	₹	918 Crore
2018-19	:	₹	1036 Crore

#### **Increase in production of solar energy**

2662. SHRI VIJAY GOEL: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether the solar energy production has increased in the country in the last three years;
- (b) if so, the details thereof, State/UT-wise;
- (c) the measures taken by Government to reduce the unit cost of solar production; and
- (d) the details of increase in the installed capacity and production of solar energy in the last three years, year-wise and State-wise?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI RAJ KUMAR SINGH): (a) and (b) State/UT-wise details of increase in solar energy production capacity installed in the country in the last three years are given in the Statement-I (*See* below).

(c) The Government has taken various measures to reduce the unit cost of solar production for solar energy generation in the country. These *inter-alia*, include the following:—

- (i) Issued guidelines for procurement of solar and wind power through tariff based competitive bidding process leading to low tariff;
- (ii) Scheme of solar parks with provision of land and power evacuation facility ensuring that the risk of power developers are reduced;
- (iii) Fiscal and financial incentives such as Capital Subsidy, Viability Gap Funding (VGF), accelerated depreciation benefits, etc;
- (iv) Waiving of Inter State Transmission System Charges and losses for inter-state sale of solar and wind power for projects to be commissioned up to March, 2022;