

**GOVERNMENT OF INDIA  
NEW AND RENEWABLE ENERGY  
LOK SABHA**

UNSTARRED QUESTION NO:937  
ANSWERED ON:05.08.2011  
USE OF SOLAR AND WIND ENERGY  
Premajibhai Dr. Solanki Kiritbhai

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

- (a) whether the Government has formulated any plans for use of Solar and Wind Energy in the country;
- (b) if so, the details thereof;
- (c) the extent to which Solar and Wind energy is likely to fill the gap between demand and supply of power in the next five years;
- (d) whether the Government is carrying out any research for finding cheaper ways to produce Solar energy at affordable rates; and
- (e) if so, the details thereof?

**Answer**

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH)

(a)&(b): Yes, Madam; The Government has launched the Jawaharlal Nehru National Solar Mission (JNNSM) to develop solar energy technologies to make solar power competitive to conventional grid power by 2022. The Mission aims at setting up of 20,000 MW grid solar power and 2,000 MW of off-grid solar applications. In addition, it aims at installation of 20 million square meter solar thermal collector area by 2022. The Mission is to be implemented in three phases. Government has approved the target to set up 1,100 MW grid connected solar plants, including 100 MW capacity plants as small solar plants for the first phase of the Mission till March, 2013. The projects are to be set up on build, own and operate basis, involving the private and public sector. Another 200 MW capacity off-grid solar applications will also be supported in the first phase of the Mission. In addition, Ministry has fixed a target of 11,200 MW Wind Power Capacity to be installed in 12th Five Year Plan and 2400 MW to be installed in the balance period of the 11th Five Year Plan.

(c): Currently the renewable energy projects, including wind and solar, constitute about 11.5% of the total installed capacity in the country. The energy share, however, is about 4%. With new capacity addition during the 12th plan period, the energy share is likely to go up by another 2-3%.

(d): Yes, Madam.

(e): One of the main objectives of the Jawaharlal Nehru National Solar Mission is to aim for achieving grid tariff parity by 2022. Ministry of New and Renewable Energy is supporting research, development and demonstration on various aspects of solar energy technologies to facilitate further reduction in the cost of solar energy products and systems. At present a total of 31 research projects are under implementation. This includes 18 projects in solar photovoltaic and 13 projects in solar thermal technologies.