

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

UNSTARRED QUESTION NO:2022
ANSWERED ON:04.12.2014
ROOFTOP SOLAR SYSTEM IN POWER STATIONS
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Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether the National Thermal Power Corporation (NTPC) has any proposal to generate power in a big way by installing rooftop solar PV systems at various power stations in the country;
- (b) if so, the details along with the present status thereof and the targets fixed for generation of more solar power by NTPC for the next three years; and
- (c) the present status of implementation of Jawaharlal Nehru National Solar Mission in the country and the steps taken to further promote the scheme in the coming years?

Answer

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

(a)&(b): Ministry of Environment and Forests (MOEF) has mandated for harnessing of solar energy on the roof of all buildings of new thermal power projects. Accordingly, NTPC is including rooftop solar plants in all its thermal power plant buildings in upcoming NTPC power projects. These shall be installed as and when the buildings are constructed as per the project execution schedule. Further, year-wise targets for next three years shall be fixed by NTPC after estimating potential of rooftop solar PV systems at its existing thermal power station buildings and after carrying out the detailed feasibility, location-wise.

(c): So far 2970 MW grid connected Solar Power Projects, 364.27 MW equivalent off-grid solar applications including solar lighting & solar pumping and 8.42 million sq. meters solar thermal collectors for solar water heating systems, solar cooking, solar cooling and industrial process heat applications have been set up under Jawaharlal Nehru National Solar Mission in the country.

The major steps taken by the Government to promote the scheme are:

- i. The cumulative targets of 20,000 MW grid connected solar power, 2,000 MW off-grid solar applications & 20 million sq. meters solar thermal collector area by 2022 set under Jawaharlal Nehru National Solar Mission (JNNSM) launched on 11th January, 2010.
- ii. Provision for Renewable Purchase Obligation (RPO) for solar has been made in the National Tariff Policy.
- iii. Grant of subsidy on off-grid applications.
- iv. Provision of Concessional Import duty/ Excise duty exemption for setting up of solar power plants, accelerated depreciation and tax holiday.
- v. Generation based incentive, viability gap funding and facility for bundled power for Grid connected Solar Power Projects through various interventions announced from time to time.
- vi. Creation of Solar Energy Corporation of India and National Institute of Solar Energy.
- vii. Awareness programmes such as exhibitions, training workshops etc. are being conducted.
- viii. Several R&D efforts have been initiated for new technologies and improvement in efficiency.