

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

UNSTARRED QUESTION NO:1925  
ANSWERED ON:08.03.2013  
ASSESSMENT OF RADIATION  
Singh Shri Jagada Nand

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

- (a) whether the centres for assessment of radiation have been set up for solar power generation in the country;
- (b) if so, the details thereof, State/UT- wise;
- (c) whether the arrangements have been made for transmission and distribution of power generated through solar power plant at national level;
- (d) if so, the details thereof;
- (e) whether there is a huge gap in term of Plant Load Factor (PLF) in production of conventional and renewable energy at national level; and
- (f) if so, the remedial measures taken in this regard?

**Answer**

MINISTER FOR NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH)

(a):Yes Madam. As part of Solar Radiation Resource Assessment (SRRRA) project, 51 stations have been installed at various parts of the country for assessment of radiation.

(b):The details are given below:

State/UT No. of Stations

Andhra Pradesh 6

Chhattisgarh 1

Gujarat 11

Haryana 1

Jammu &Kashmir 1

Madhya Pradesh 3

Maharashtra 3

Karnataka 5

Pondicherry 1

Rajasthan 12

Tamil Nadu 7

Total 51

(c)&(d):The arrangements for transmission and distribution of solar power generated through solar power plant within the state are being made by the respective state transmission utility and distribution company(ies) of the states respectively. In case of interstate transmission the arrangements are being made by Central Transmission Utility (Power Grid Corporation of India).

(e)&(f):The conventional energy plants can be operated continuously thus yielding higher PLF; on the contrary renewable energy plants operate for a limited period, due to non-continuous availability of renewable energy resources and therefore have lower PLF.

This is the inherent nature of renewable power and therefore PLF cannot be increased beyond a point. However, this may be addressed to some extent through remedial measures, such as, up-gradation/ management of the grid and development/ utilization of suitable energy storage systems.