

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 2600
ANSWERED ON 07/08/2024

SOLAR ENERGY USAGE

2600. SHRI HARISH CHANDRA MEENA
SHRI SUKHDEO BHAGAT

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

- (a) the projected energy usage of the country that will be met through solar energy by 2050;
- (b) the projected land use under solar parks by 2050; and
- (c) the details of the measures taken to ensure that the solar energy targets are achieved in an environmentally sustainable and socially responsible manner?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a)&(b) The share of Solar capacity has presently been estimated till 2047, at around 46% of the likely total installed capacity of 1860 GW under Business-As-Usual (BAU) scenario as per the “India Energy Securities Scenarios 2047” a tool developed by NITI Aayog.

Considering the rapid pace of advancements in solar technology, which is expected to improve the efficiency of harnessing Solar energy significantly, it is difficult to estimate the projected land use under solar parks by 2050.

(c) Solar Energy projects are considered as environmentally sustainable. To manage e-waste generated after the use of solar photo-voltaic modules or panels or cells Ministry of Environment, Forest and Climate Change notified the E-Waste (Management) Rules, 2022, effective from 1st April, 2023.

Further, the recycling of solar photo-voltaic modules or panels or cells are mandated for recovery of material as laid down by the Central Pollution Control Board (CPCB).
