

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO.1612**  
TO BE ANSWERED ON 28.11.2019

**ADOPTION OF CLEAN TECHNOLOGIES**

1612. SHRIMATI POONAM MAHAJAN

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

- (a) whether any training programme has been organized for adoption of clean technologies under the clean technology scheme;
- (b) if so, the details thereof;
- (c) whether there exists any mechanism by which the impact of such training programmes is assessed; and
- (d) if so, the details thereof along with the appraisal of the effectiveness of such programmes?

**ANSWER**

THE MINISTER OF STATE (I/C) FOR NEW & RENEWABLE ENERGY, POWER and MoS for SKILL DEVELOPMENT AND ENTREPRENEURSHIP

(SHRI R. K. SINGH)

(a) & (b) There is no “Clean Technology Scheme” being run by the Ministry of New and Renewable Energy (MNRE). However, the Ministry of New and Renewable Energy under its Human Resources Development (HRD) Programme supports educational and training institutions to impart training on various aspects of renewable energy including system design, installation, commissioning, servicing, repair and maintenance of renewable energy systems, devices and power projects being part of Clean Technology. These trainings are conducted by research/educational institutions, NGOs, solar companies having necessary training facilities. These trainings involve both theory and practical classes as per the National Occupational Standards and Qualification Packs, developed in collaboration with the Skill Council for Green Jobs (SCGJ), a Sector Skill Council set up as per the provisions of National Skill Development Mission, which also organises such training programmes through its affiliated training partners. In addition, as part of “Scale UP of Access to Clean Energy Scheme” of the Ministry, 17 training programmes have been organised in the states of Assam, Madhya Pradesh, Odisha, Puducherry and Haryana besides holding four State/District Level Workshops and Other Capacity Building Events .

(c) & (d) To analyse the impact of the HRD programmes, MNRE awarded a study to Indian Institute of Development Management (IIDM), Bhopal. The IIDM in its Report, submitted in December 2017, mentioned that the short term training programs supported by MNRE have been able to generate considerable awareness about renewable energy systems amongst students,

professionals, government functionaries. The Report further mentions that these programmes have resulted into development of skilled manpower to take care of erection, commissioning and maintenance of renewable energy systems in different parts of the country. In addition, each of the training programme supported by the Ministry is assessed by the SCGJ, and certificate to the successful trainees are awarded. Details of the SCGJ certified candidates on various renewable energy job roles are as follows:

<b>Sr No</b>	<b>Job Role</b>	<b>Total Certified candidates</b>
1	Solar PV Installer (Suryamitra)	52952**
2	Solar PV Installer Electrical	9012
3	Solar Lighting Technician	1244
4	Solar PV Installer - Civil	1086
5	Rooftop Solar Grid Engineer	774
6	Rooftop Solar Photovoltaic Entrepreneur	674
7	Solar electric System Installer & Service Provider	244
8	Solar PV O& M Engineer	70
9	Solar Domestic Water Heater Technician	63
10	Solar Proposal Evaluation Specialist	63
11	Solar Off Grid Entrepreneur	40
12	Solar PV Business Development Executive	40
13	Improved Cookstove Installer (Fixed type)	99
	<b>Total</b>	<b>66361</b>

\*\* This include 29,434 candidates supported by MNRE under its Suryamitra programme

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