

GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
LOK SABHA
UNSTARRED QUESTION NO. 3772
ANSWERED ON 24.03.2025

SKILLING FOR THE RENEWABLE ENERGY SECTOR

3772. SHRI P C MOHAN:

Will the Minister of SKILL DEVELOPMENT AND ENTREPRENEURSHIP be pleased to state:

- (a) the outcomes of skilling initiatives for the renewable energy sector across the country, along with details of any specialized programmes implemented to meet the growing demands of this sector;
- (b) the measures taken at the national level under the Skill India Mission to develop a skilled workforce for the renewable energy sector, including efforts to upskill the workforce in the solar, wind and green hydrogen industries and collaborations with industry stakeholders; and
- (c) whether any steps have been taken to establish Centres of Excellence for renewable energy skill development and whether Bengaluru is being considered for such a centre?

ANSWER

THE MINISTER OF STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP

(SHRI JAYANT CHAUDHARY)

(a) to (c): Under the Government of India's Skill India Mission (SIM), the Ministry of Skill Development and Entrepreneurship (MSDE) delivers skill, re-skill and up-skill training through an extensive network of skill development centres under various schemes, viz. Pradhan Mantri Kaushal Vikas Yojana (PMKVY), Jan Sikhshan Sansthan (JSS), National Apprenticeship Promotion Scheme (NAPS) and Craftsman Training Scheme (CTS) through Industrial Training Institutes (ITIs), to all the sections of the society across the country. The SIM aims at enabling youth of India to get future ready, equipped with industry relevant skills in various sectors including green jobs.

The details of candidates trained under schemes of MSDE in green jobs are as under:

Schemes	Candidates Trained
PMKVY (Since 2015-16 to 31.02.2024)	5,02,182
JSS (from 2023-24 to 28.02.2025)	1,356
NAPS (Since 2018-18 to 28.02.2025)	7,517
CTS (ITIs) (Sessions 2018-19 to 2024-25)	20,161

Ministry of New and Renewable Energy (MNRE) has launched various capacity building and skill development programmes to create a skilled workforce across different segments of the renewable energy sector, including solar energy. Details are as follows:

(i) Skilling under Human Resource Development scheme: Under the short term component of Human Resource Development programme, skilled/trained technicians are created for proper installation, operation and maintenance of Renewable Energy projects. Under Suryamitra Skill Development Program, 57372 candidates have been trained in Installation, Commissioning and Operation & Maintenance of Solar PV Systems till February, 2025. Under Varunmitra program, 1276 candidates have been trained in Solar Water Pumping Technician training program implemented through National Institute of Solar Energy (NISE), Gurugram. Under Vayumitra program, 196 Trainers and 2160 candidates have been trained in Wind Power Plant Technicians for Wind Energy Projects till February, 2025. Under Jal-Urjmitra Program, 54 trainers and 515 candidates have been trained as Small Hydro Power Plant Technicians for maintenance of Small Hydro Power Projects till February, 2025.

(ii) Capacity building under PM-Surya Ghar- Mufti Bijli Yojana: The scheme aims to create more than three (3) lakh skilled manpower through skilling, upskilling, out of which at least 1 lakh will be solar technicians. Training for the Technicians/ Electricians/ Installers/ Engineers/ Supervisers / Vendors / Discom officials / Trainers is for installation/design/operation & maintenance for solar roof top systems through Directorate General of Training (DGT), National Institute for Entrepreneurship and Small Business Development (NIESBUD), National Institute of Solar Energy (NISE), Sector Council for Green Jobs (SCGJ), etc. So far, a total of 66,434 personnel have been trained under the scheme.

(iii) Skilling under Green Hydrogen Mission: Skilled manpower for Green Hydrogen Sector under the National Green Hydrogen Mission (NGHM) is being created through a Scheme on skilling, up-skilling and re-skilling under NGHM. A total of 1673 candidates, 150 trainers and 63 master trainers have been trained in Green hydrogen area.

The schemes of MSDE are demand driven and training centres under these schemes are set up or engaged on need basis. Details of the training centres engaged under the schemes of MSDE in Bengaluru Urban and Bengaluru Rural districts of Karnataka are as under:

Schemes	PMKVY 4.0 Centres	JSS Centres	NAPS Establishments	CTS (ITIs) (Session 2023-24)	
				Govt	Pvt
Karnataka	457	12	2,452	274	1,192
Bengaluru	74	01	1,565	17	52

National Skill Development Corporation (NSDC) under the aegis of MSDE has set up Skill Council for Green Jobs (SCGJ) led by industry leaders which is mandated to identify the skill development needs of the sector as well as to determine skill competency standards. SCGJ has reported that they have established a Centre of Excellence (CoE) with Tata Power, Maharashtra and Gujarat Energy Research & Management Institute (GERMI), Gujarat. SCGJ also has 08 training centres in Bengaluru, Karnataka.
