

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 3497
ANSWERED ON 01.04.2025

RENEWABLE ENERGY TRAINING INSTITUTES

3497. SHRI SANJAY RAUT

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

- (a) the number of jobs created in the renewable energy sector in the last five years and the key employment trends in this sector;
- (b) whether there are any Government or private initiatives to establish renewable energy training institutes to equip youth with skills in solar, wind, hydro, and hydrogen energy; and
- (c) the number of renewable energy training institutes currently operational along with details of any new proposals for establishing such institutes, State-wise?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) As per study on “Powering Jobs Growth with Green Energy” carried out by Council on Energy, Environment and Water (CEEW) in July, 2019, and Co-benefits Study report by TERI in October 2019, the Full Time Equivalent (FTE) Coefficients, jobs per MW per year are 24.72 for Rooftop Solar, 3.45 for Utility-Scale Ground-Mounted Solar Projects, 16.24 for Biomass Power Projects, 13.84 for Small Hydro and 2.65 for Large Hydro, accordingly the estimated number of about 6.65 lakh jobs were created during the last five years i.e., 2020-21 to 2024-25 (till February 2025) in renewable energy sector. Further, the employment trend of the last five years showed that maximum number of 6.22 lakh jobs were created in solar energy.

(b) The Ministry of New and Renewable energy is implementing various skilling/training programmes to equip youth with skills in Solar, Wind, Bio energy and Small Hydro Power through specialized institutions namely National Institute of Solar Energy (NISE) Gurugram, Haryana, National Institute of Wind Energy (NIWE), Chennai, National Institute of Bio Energy (NIBE), Kapurthala, Punjab and Hydro and Renewable Energy Department (HRED), IIT Roorkee. Skill development and training in renewable energy are also supported by the Ministry of Skill Development and Entrepreneurship (MSDE) through its institutions such as the National Skill Development Corporation (NSDC), Sector Skill Council (SSCs), Directorate General of Training (DGT) thorough National Skill Development Institutes (NSTIs) and Industrial Training Institutes (ITIs). RE companies has also set up training institutes such as Tata Power Skill Development Institute (TPSDI) are also imparting necessary training in Solar, Wind and Hydrogen energy.

(c) Currently about 1167 training Centres/ Institutes and about 926 ITIs/NSTIs and Centres/ Institutes of National Institute for Entrepreneurship and Small Business Development (NIESBUD) are operational for conducting renewable energy skilling/training. The state-wise list of number of the training Centres/ Institutes is given in **Annexure 1**.

There are no new proposals for establishing renewable energy training institutes has been received by the Ministry of New and Renewable Energy.

Annexure-1

List of State wise number of operational training centres/ institutes for imparting renewable energy skilling / training

State /UT	Number of training institutes/centres		
	NSTI/ITIs	Affiliated through Skill India Digital Portal	NIESBUD
Andaman and Nicobar Islands	-	-	-
Andhra Pradesh	44	17	-
Arunachal Pradesh	-	6	-
Assam	12	25	-
Bihar	67	39	2
Chandigarh	12		
Chhattisgarh	-	13	1
Dadra and Nagar haveli and Daman & Diu (UT)	1	-	-
Delhi	4	4	-
Goa			1
Gujarat	44	30	1
Haryana	77	23	1
Himachal Pradesh	21	9	1
Jammu and Kashmir	12	111	1
Jharkhand	19	12	1
Karnataka	183	35	1
Kerala	27	12	1
Ladakh UT	-	2	-
Madhya Pradesh	57	135	1
Maharashtra	73	87	1
Manipur	1	4	-
Meghalaya	1	4	-
Mizoram	1	-	-
Nagaland	-	-	-
Orissa	31	22	1
Puducherry	-	2	-
Punjab	13	30	1
Rajasthan	51	156	1
Sikkim	3	1	-
Tamil Nadu	32	45	1
Telangana	29	25	1
Tripura	14	6	-
Uttar Pradesh	54	274	3
Uttarakhand	18	24	1
West Bengal	2	14	1
Total	903	1167	23

