SOLAR PV ENERGY TECHNICIAN TRAINING PROGRAMME

Project Update

January 2020

Submitted by:

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Introduction

Among the various development programmes by the Government of India, on of the most ambitious ones is the National Solar Mission. The programme, initiated in 2010, aims to install 100 GW of Solar Power by 2022 with 60% ground mounted systems and 40% rooftop systems. As of 2019, just about 30 GW has been installed and most of these installations are ground mounted systems catering to the 60% of the target, the rooftop target has barely been touched. This indicated the need for interventions that can aid in escalating the pace at which the solar power systems are being installed.

Among many other challenges, one of the main reasons for the lack of pace in solar installations is a lack of trained technicians with the necessary awareness and skills to develop a thorough understanding to take forward the installations, particularly smaller rooftop systems. In order to address this need, an upskilling programme in Solar Photovoltaics (PV) was designed targeting the youth from vocational backgrounds in electrical, electronics and related fields.

This project proposes training 800 candidates in the basics of solar photovoltaic system design, installation and maintenance.

Project Rationale

Government Goals:

- The programme is a strategic intervention to support the National Solar Mission of the Government of India, also an essential component towards meeting SDG 7.

- Target of 100 GW of solar by 2022 requires trained manpower.

- 40% of the target is on rooftops, which needs entrepreneurs. The program aims at encouraging entrepreneurs.

National Solar Mission (GW)
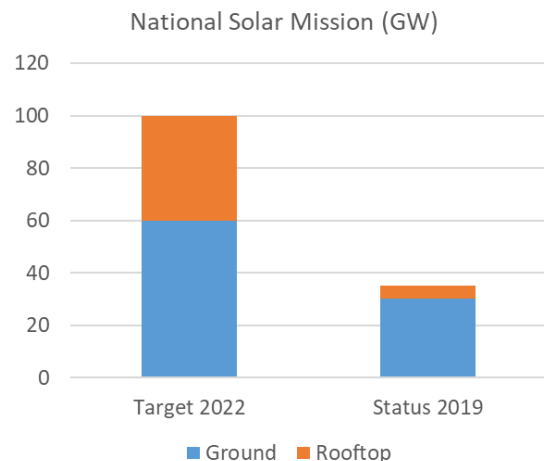
Energy Sector:

- DISCOMs or State Electricity Boards require individuals with the knowledge of Renewable Energy systems to help implement state level RE targets and policies.

- The targeted vocational students from Government ITI and Polytechnics typically get placed in State Electricity Boards. This upskilling programme will equip these students with the required know-how.

Education Sector:

- The programme encourages participation from faculty members at the participating institute, thereby preparing the institute for future formal programmes in Renewable Energy.
- The poor employability among fresh graduates is addressed by innovative education methods that help build soft skills.

Project Update

The project was initiated in October 2019. The target candidates are the youth from vocational backgrounds in electrical, electronics and related fields. In order to reach these candidates, partnership with relevant institutes was sought. The targeted institutes have been Industrial Training Institutes (ITIs) and Polytechnic colleges.

As of January 2020, a total of 130 students have been trained. Assessment and certification has been conducted through Skill Council for Green Jobs (SCGJ), NSDC. The details are as follows:

S No.	Institute	Batch No.	Dates	No. of students	No of students assessed	No. of students passed
1	H.J. Bhabha Government ITI, Mayur Vihar Ph 1, Delhi	Batch 1	14.11.2019 to 28.11.2019	33	31	31
2	H.J. Bhabha Government ITI, Mayur Vihar Ph 1, Delhi	Batch 2	03.12.2019 to 13.12.2019	30	30	30
3	Government Polytechnic, Manesar, Haryana	Batch 3	13.01.2020 to 18.01.2020	27	27	Results awaited
4	Government Polytechnic, Manesar, Haryana	Batch 4	13.01.2020 to 18.01.2020	40	37	Results awaited

Partnerships

- A partnership with CLEAN energy network has been undertaken for expert sessions.
- MoU with Government Polytechnic Manesar has been signed with validity till March 2021. More sessions shall be planned after August for the next batch of final year students.

Glimpses

Inauguration at Govt. ITI Mayur Vihar

Hands on training

Session on tools

Classroom training

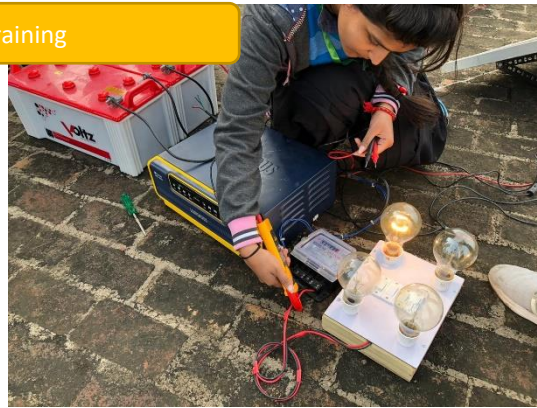Group presentations

SCGJ assessment

MoU signing at Govt. Polytechnic, Manesar

Classroom training

Hands on training

SCGJ assessment

Way Forward

The following institutes are being approached for future batches of Solar training:

S No.	Institute	Tentative Dates	Remarks
1	Government ITI, Pali	03.02.2020 to 13.02.2020	Dates finalized
2	DPG Polytechnic, Gurgaon		
3	Government ITI, Gurgaon	Training schedule planning in process	
4	Government ITI, Sohna		
5	Government ITI, Rewari		
6	Government ITI, Faridabad		

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