

Renewable Energy Technologies for TVET - PV

Course 1: PV Designing of On-Grid PV Systems for Teachers and Trainers

TOPICAL AREA: Green TVET

In this module teachers and trainers will get introduced in the use of yield prevision tools for deploying electrical energy via photovoltaics (PV). Finally, competencies in dimensioning grid-connected PV systems are promoted for TVET.

- **Content, elements, format and duration can be customized to the respective needs**

LEARNING OUTCOMES

On completion of the training, participants are able to

- evaluate the performances and limits of renewable energies
- apply online services for yield estimations
- train to design PV systems with professional tools
- dimension PV systems economically
- derive green competence requirements for different groups of employees from these standards

CONTENTS

- Introduction into the used LMS system
- Important parameters
- Web designing tools for PV systems
- On-grid calculation
- Economic optimization of PV systems
- Online services and databases for PV

FORMATS

The training is designed to be provided in an e-learning format. Main didactical elements are:

- 1 week self-study e-learning in pairs
- Support through online sessions and forums

LANGUAGE

- English
- German
- Upon request: other languages with interpreters

TARGET GROUPS

- TVET teachers and trainers (max. 14 p/ course)

PARTICIPATION REQUIREMENTS

- Fundamental skills in electrical engineering
- Basic knowledge on PV cells, parameters and system behaviour of cells
- Basic PC and internet knowledge

DURATION

- 1 Week ~20 hours/week self organized learning time in pairs
- 3 Online sessions (45 min each)
- 2 Guided forum times (1 h each)

EQUIPMENT

- PC/Notebooks (Win 10)
- Current web browser
- Online sessions: Fast internet connection

CERTIFICATE

The participants will receive a certificate of participation after completion of the course.

YOUR CONTACT

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