

Renewable Energy Technologies for TVET - PV

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

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 hrs/week self organized learning time in pairs
- 3 Online sessions (45 min each)
- 2 Guided forum times (1 hrs each)

Equipment

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

Certificate

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

Your contact

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