

6. OFF-GRID EXPERTS WORKSHOP

Hands-On Off-Grid Assembling Station

Status: 09. August 2019

Under the expert guidance of experienced installers Werner Schnelle, Thomas Sacks and Jonathan Schreiber, typical assembly operations can be tried out live on site. At each of the four stations you will receive an introduction and test the assembly using innovative tools.



Schedule Hands-On Off-Grid Assembling Station

Friday, 20 September 2019

10.30 a.m. Cable Station

- Cable knowledge (H07-RNF, Ölflex, solar cable, etc.)
- Cable processing tools and installation materials (e.g. ferrules, ring cable lugs, pin cable sockets, etc.)
- Creation of a battery connector cable using good modern tools
- Solar module cable with standard 4 compatible plug contacts (use of different types, installation with and without special tools)
- Gain experience using other innovative tools
- Under the guidance of Werner Schnelle and Thomas Sacks

12.30 p.m. Junction Box Station

- Creating a junction box
- Presentation of cable clamps from various manufacturers and their use
- Practical exercises for clamping cables
- Crimping of cables with wire end ferrules and wiring to solar charge controllers
- Under the guidance of Werner Schnelle and Thomas Sacks

02.30 p.m. Measuring Station

- Creating a serial and parallel interconnection of solar modules
- Testing with DC Multimeter and Current Clamp
- Set and check references
- Various power measurements
- What modern measuring instruments are available on the market and how are they used?
- Under the guidance of Werner Schnelle and Thomas Sacks

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Saturday, 21 September 2019

09.30 a.m. Cable Station

- Cable knowledge (H07-RNF, Ölflex, solar cable, etc.)
- Cable processing tools and installation materials (e.g. ferrules, ring cable lugs, pin cable sockets, etc.)
- Creation of a battery connector cable using good modern tools
- Solar module cable with standard 4 compatible plug contacts (use of different types, installation with and without special tools)
- Gain experience using other innovative tools
- Under the guidance of Werner Schnelle and Thomas Sacks

11.00 a.m. Junction Box Station

- Creating a junction box
- Presentation of cable clamps from various manufacturers and their use
- Practical exercises for clamping cables
- Crimping of cables with wire end ferrules and wiring to solar charge controllers
- Under the guidance of Werner Schnelle and Thomas Sacks

12.30 p.m. Measuring Station

- Creating a serial and parallel interconnection of solar modules
- Testing with DC Multimeter and Current Clamp
- Set and check references
- Various power measurements
- What modern measuring instruments are available on the market and how are they used?
- Under the guidance of Werner Schnelle and Thomas Sacks

01.30 p.m. Setting up a Do-It-Yourself Small Wind Turbine

- After the Piggott design with Jonathan Schreiber from the project PureSelfMade
- Explanation of the function of the wind turbine incl. automatic power control in the event of a storm
- Assembly and adjustment of all generator components
- Design and final assembly of the rotor
- Testing the wind turbine, measuring voltage, current, etc.
- A detailed insight into the simple, robust and sustainable self-construction concept of Hugh Piggott, which is used in the Do-It-Yourself workshops of PureSelfMade.

The Hands-On Off-Grid Assembling Station takes place in the accompanying exhibition of the OFF-GRID Experts Workshop. All workshop participants, exhibitors and visitors have access. Pre-registration is not necessary.