Photovoltaics basics seminars

Every year our photovoltaics basic seminars is very popular among installers of different specializations, planners and consultants. Grid-connected solar systems only reach their maximum economic and ecologic efficiency if all technical, economic and legal factors are taken into account. The basics seminars facilitate your entry into a new field of business. Especially in the seminars on inverters and system monitoring even experienced installers can gather a lot of additional knowledge. With your newly acquired expertise you will impress your customers and keep competitors at bay.

>>Register here<<

Photovoltaics for beginners

The use of solar electricity has seen considerable growth rates over the last years. You are a specialized installer and would like to install photovoltaic systems as well? This seminar supplies you with the basic knowledge of everything you need to keep in mind when planning and installing grid-connected solar systems. On the basis of practical examples the participants, together with the instructors, plan the most important steps of constructing a photovoltaic system. Which roofs are suitable? What does a photovoltaic system consist of? What do I need to keep in mind? Alongside the technical side the seminar will also cover ecologic and economic aspects.

Contents:

- Functionality of a photovoltaic system
- Solar modules, types and applications

- Inverters, important basics
- System mounting on different roof types
- Subsidies and profitability
- Planning aids

Photovoltaics basics

The solar electricity generation offers a profitable field of business to specialized installers of various directions. You have already gathered practical experience and would like to expand your knowledge about grid-connected solar systems? This seminar supplies you with the technical background knowledge about the individual components of a grid-connected solar system and their functionality. This allows you to attune the system optimally already in the planning phase und thus to produce higher energy yields. The products that are available at AS Solar are characterized by their high quality and longevity. You will learn the differences between the individual components and their respective advantages.

You should already have the basic knowledge about the principle construction of a photovoltaic system.

Contents:

- Basics of photovoltaics
- Cell and module technology, functionality
- Basics of inverter layout
- Mounting systems
- Current products
- Grid-connection: safety, mounting, start-up
- System monitoring

Inverters

For all grid-connected photovoltaic systems the use of inverters is indispensible. The efficiency of these devices influences the electricity output of the whole system. In the seminar you will get a fundamental overview about the setup and functionality of inverters. In addition to that the differences as well as the advantages and disadvantages of our

different inverters will be explained. You will be supplied with tips and suggestions on the optimal and most profitable layout of various devices.

Contents:

- Inverter concepts – Advantages and disadvantages
- Setup and functionality
- Lightning and overvoltage protection
- Inverters by SMA, Kostal, Sputnik (SolarMax), Sunways
- Communication / Monitoring

System monitoring with AS Control

Installers can use the PV monitoring system by AS Solar for all systems, regardless of the manufacturer. There is no need for familiarization. The excellent operability via a large touch screen enables the customer access to error messages, system parameters and various yield diagrams. Through the serial RDT-possibilities you can offer your customers a fast error elimination as an additional service.

Starting in 2009 there will be the new PV-Interface. With that, it is not only possible to monitor the yields but also to conduct an AC and DC-sided current and voltage analysis . With the PV-Interface it is possible to analyze status and error messages directly which enables the user to exactly localize the errors already at the PC.

Contents:

- Presentation of the components and possibilities
- Installation and start-up
- Possibilities of remote data transmission
- Optimization of the error analysis