



# Photovoltaics: Design and Installation Manual

*Solar Energy International*

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## **Photovoltaics: Design and Installation Manual** Solar Energy International

Producing electricity from the sun using photovoltaic (PV) systems has become a major industry worldwide. But designing, installing and maintaining such systems requires knowledge and training, and there have been few easily accessible, comprehensive guides to the subject.

Now, with *Photovoltaics: Design and Installation Manual*, a world-class solar energy training and education provider—Solar Energy International (SEI)—has made available the critical information to successfully design, install and maintain PV systems. The book contains an overview of photovoltaic electricity and a detailed description of PV system components, including PV modules, batteries, controllers and inverters. It also includes chapters on sizing photovoltaic systems, analyzing sites and installing PV systems, as well as detailed appendices on PV system maintenance, troubleshooting and solar insolation data for over 300 sites around the world. Used worldwide as the textbook in SEI's PV Design & Installation workshops, topics covered include:

The basics of solar electricity

PV applications and system components

Solar site analysis and mounting

Stand-alone and PV/generator hybrid system sizing

Utility-interactive PV systems

Component specification, system costs and economics

Case studies and safety issues

*Photovoltaics* guarantees that those wanting to learn the skills of tapping the sun's energy can do so with confidence.

**Solar Energy International (SEI)** has the nonprofit mission to respond to the need for renewable energy education. Based in Carbondale, Colorado, and active around the world, SEI is a link between people and renewable energy resources, providing information, education and training to people who want to shape a sustainable future. SEI is recognized by the National Board of Certified Energy Practitioners (NABCEP) as dedicated independent provider of PV training programs that may be used toward attaining PV certification. Also, SEI is recognized as an Accredited Institution to offer PV training by the Institute for Sustainable Power (ISP).

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