



101 Intro to Solar Electric Systems (half day)

This course is an introduction to solar electric power generation. Topics covered will be helpful to anyone considering the purchase or implementation of a PV system:

- Architects
- City Officials
- Facilities Managers
- Homeowners

Prerequisite: None

By the end of this course attendees will:

- Know the benefit of Solar Photovoltaics (PV)
- Understand the Process of Harnessing Solar Energy
- Be able to identify the components and architecture of a Solar PV system
- Have a working model for Solar Electric Projects: from Planning to Power Generation

Course outline:

1. Introduction

- Review the Outline for the Day
- Profile: Instructor, Company, Attendees
- Brief Glimpse at the Industry
- Benefits of PV
- History of innovation
- Terminology, Watts
- Need for Qualified Installers

2. Harnessing Solar Energy

- Sun Tracking
- Solar Collecting Cells
- The Grid
- Net Metering
- Solar Architecture

3. Components of a PV System

- Mounting Types
- Modules
- Inverters
- Charge Controllers
- Wiring
- Batteries
- Meter

4. Solar Electric Project Considerations/Planning

- Site Plan
- Utility Integration
- Codes
- Contracting: Insurance Certificate
- Installation, inspection, commissioning
- Maintenance Plan

5. Resources

- For Consumer
- For Contractors
- Additional Training Course Information

Course Review Survey

NOTE:

Individuals considering a job as a PV installer or inspector are recommended to take the Synergized Solar course 201 Solar PV Fundamentals.

For fees and registration contact us at:

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