

***BASICS OF EMERGENCY POWER SYSTEMS WITH PHOTOVOLTAICS***  
***WORKSHOP ESP-201***  
**Disaster Relief Energy Training**  
**on**  
**Thursday, May 26, 2011**  
**At**  
**Florida Solar Energy Center**

***Agenda:***

Noon

- 12:00 -12:30 Registration for workshop
- 12:30 -12:40 Welcome and Introductions
- 12:40 -1:20 History of Using Solar Energy in Disasters
- 1:20 -1:30 When Will Utility Power be Restored and Should I Use a Generator?
- 1:30 -1:40 Do You Have A Disaster Plan and Have You Incorporated Solar In It?
- 1:40 -1:50 Conservation and Energy Efficiency Practices Come First
- 1:50 -2:00 Break
- 2:00 - 2:30 How Does Solar Energy Work?
- 2:30 - 3:00 Photovoltaic Equipment and System Components
- 3:00 - 3:40 Emergency Backup Power Provided by Photovoltaics
- 3:40 - 3:50 Maintenance, Reliability, and Safety.
- 3:50 - 3:55 What Is a Sustainable Disaster Resistant Building?.
- 3:55 - 4:00 Closing Comments and Exhibits

***Target Audience:***

Disaster relief organizations, emergency managers, government agencies, shelter managers, facilities personnel, engineers, trades, code officials, and building inspectors or representatives for FEMA Emergency Support Function 12 (ESF12).

***Purpose of Workshop:***

The desired outcome for the participants is a understanding of the use of solar electricity and renewables in a disaster for response, recovery, and mitigation activities. This course will help participant be better prepared for a disasters and capable of meeting their energy needs and provide energy security through disaster resistant buildings. The course will assist focus is photovoltaic systems with battery back-up to power critical applications in grid-tied and stand-alone modes. This workshop does not certify or license any attendee.

***Materials:***

There are educational handout materials consisting of presentation slides, disaster literature, and professional papers. Lunch is not provided

***Registration:***

This 3.5 hour workshop registration fee is \$100 USA which includes all educational materials. There are no prerequisites or qualifications for this course. Attendees must register at least 1 week before start on-line at <https://secure.fsec.ucf.edu/fsecstore/do/category/DST> or contact Bill Young. .

***Presenter:***

Bill Young, is a Senior Research Engineer for the Florida Solar Energy Center with 25 years of experience in applied research, testing, and training in solar energy for disasters.

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