Important Ingredients for a Successful Solar PV Project: Best Practices and Lessons Learned

Columbia, MD - Thursday, February 27, 2020

You’ll be able to:

Discuss basic principles of solar photovoltaic (PV) technology with potential project owners.

Understand solar PV economics, cost trends and ownership models.

Comply with applicable codes and standards, including the National Electrical Code.

Describe solar PV system components and consider system configurations and mounting methods.

Discuss PV project implementation, including permitting and interconnection.

Explain the commissioning process which insures that a PV system is properly designed, installed, tested and performing as specified.

Learning Objectives

You’ll be able to:

Discuss photovoltaic (PV) project economics, cost trends and ownership models.

Comply with National Electrical Code requirements.

Explore solar PV system configurations and array mounting methods.

Learn about utility interconnection agreements.

Verify performance through system commissioning.

Gain practical tips on common and not-so-common PV maintenance issues.

Continuing Education Credits

Professional Engineers: 6.5 PDHs
Architects: 6.5 HSW LUs/CE Hours
6.5 AIA LU|HSW

Contractors: Non-Credit Continuing Ed.

Presented by Jeff Gilbert

Agenda

An Overview of Solar Photovoltaics (PV)
Introduction
Solar PV industry trends and stats
The nature of PV (IV curves, temperature, irradiance and efficiency)
PV project economics, cost trends and ownership models.

PV System Predesign Considerations
National and international standards for PV
The National Electric Code (NEC)
Certifications, training and qualifications (NABCEP, NETA, Safety, Master Electrician)
Safety

PV System Design
System performance modeling and modeling software
Inverter topographies and capabilities
Common system configurations (including series and parallel wiring)
Solar array mounting methods and the pros and cons of each
String sizing
Methods of grid interconnection

Project Implementation
Permitting and interconnection
Utility interconnection agreements
PV system grounding
Construction and project management

System Commissioning (CX)
PV plant commissioning timeline
Pre-energization testing
Post-energization testing
Performance verification
Most common CX related failures

Operation and Maintenance (O&M)
Performance monitoring
Inspection checklists
Electrical testing and thermography
Common and not-so-common maintenance issues
Seminar Information

Sheraton Columbia Town Center Hotel
10207 Wincopin Circle
Columbia, MD 21044
(410) 730-3900

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:00 pm
Lunch (on your own)
12:00 pm - 1:00 pm
Afternoon Session
1:00 - 4:30 pm

Tuition
$299 for individual registration
$269 for three or more registrations.

Included with your registration: Complimentary continental breakfast and printed seminar manual

How to Register
Visit us online at www.halfmoonseminars.org
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Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a $59 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Additional Learning

Webinar Series

Demolition and Deconstruction
- Purposes and Benefits of Demolition and Deconstruction
- Markets/Uses for Demolished Materials
- Material-Specific Demolition Methods

Ethical Issues for Engineers
- Handling Ethical Issues in Professional Engineering Practice
- Resolving Disputes and Handling Ethical Issues in Government Projects
- Complying with Rules of Professional Conduct

Aerial Mapping Technologies and Procedures
- Overview of Aerial Mapping Technologies and Platforms
- Mapping Using UAS and Photogrammetry
- Post Processing Software Applications and Photogrammetry Demonstration
- FAA Commercial UAS Regulations and FAA Part 107

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Registration

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How to Register

Online:
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Phone:
715-835-5900
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Mail:
HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278

Complete the entire form. Attach duplicates if necessary.

Tuition
I will be attending the live seminar. Single Registrant – $289.00. Three or more registrants from the same company registering at the same time – $269.00 each
I am not attending. 

Card Credit: Mastercard, Visa, American Express, or Discover
Credit Card Number: 
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Checks: Make payable to HalfMoon Education Inc.

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