



midwest renewable energy association

Solar Education and Technical Assistance Opportunities

Illinois Green Economy Network



Who is the MREA?

- **Mission** we are a 501(c)(3) nonprofit dedicated to promoting renewable energy, energy efficiency, and sustainable living through education and demonstration
- **Host** the Annual Energy Fair in Custer, Wisconsin
- **Offices** located in Custer and Milwaukee, Wisconsin and Minneapolis, Minnesota

Why go solar?

- **Issue visibility** is increasing interest from college leadership
- **Investment models** exist that meet requirements for nearly all colleges
- Student participation and strong **programmatic values** can help advance consideration of PV investments
- A **road mapping** process can define best investment options and reduce costs/risks





What are some solar benefits

Reduce Energy Consumption

- Lower on campus energy consumption

Improved operational cashflow

- Produce positive return on investment over time
- Lower monthly utility bills and improve operational cashflow

Hedge against future energy cost

- Create an economic hedge on future operational expenses

Reduce carbon footprint

- College climate action commitments or sustainability goals

MREA Offerings

- **PV Development for Institutions Program**
 - PV Deployment and Investment Roadmap
 - Instructor facilitated learning format
 - 12-week online & on-demand course
- **Technical Assistance Services – Fee for Service**
 - PV Project Planning
 - Solar PV Site Assessment Report
 - Solar PV Economic Feasibility Analysis
 - Solar PV Development Assistance
 - Solar PV Evaluation Assistance
 - PV System Inspection and Report





PV Development for Institutions Program

Purpose

- Guide participating IGEN community colleges through fundamentals of institutional investment in solar PV systems
- Apply tools, templates, case studies, and lessons learned from recent experiences of other colleges
- Help narrow the options to identify the best investment solutions for your campus
- To learn more go to:
<http://www.solarendowment.org>



PV Development for Institutions Program

Outcomes

- Learn how to create effective teams and engage key decision-makers
- Define legal and regulatory considerations
- Address how to conduct energy analysis and perform site assessments
- Gain familiarity with economic modeling tools used to simulate finance investments
- Learn about procurement strategies to deliver results



PV Development for Institutions

Course Module Format

Module 1 - Program Introduction

Module 2 - PV Development Considerations

Module 3 – PV Investment Strategies

Module 4 – Energy Analysis

Module 5 – PV Site Prioritization

Module 6 – Project Financial Modeling

Module 7 – Bid-Ready Solar Projects

Module 8 – Running a Competitive
Solicitation

Technical Assistance Services



PV Project Planning

- Assist in defining goals and objectives

Solar PV Site Assessment Report

- Preliminary or on-site site assessments

Solar PV Economic Feasibility Analysis

- Integrate energy consumption & site production potential

Solar PV Development Assistance

- Integrate goals, siting, production, and contractor criteria

Solar PV Evaluation Assistance

- Assist selection committee in analyzing contractor proposals

PV System Inspection and Report

- On-site inspection of developer installation