2009 WISCONSIN
Renewable Energy Summit
Renewables, Sustainability, Energy Efficiency, Social Responsibility, and Green Energy Practices

# Solar Electric Energy

# Session 14-2

**DATE:** WEDNESDAY, MARCH 25, 2009

**Breakout Session 14-2:**

**Time:** 3:45pm - 5:30pm

**Presenters:**

**Solar Electric 101 (continued from session 14-1)**
Clay Sterling, Midwest Renewable Energy Association

Learn about the components that make up a solar electric system, how they work, and the most common applications. Includes the basics of system sizing and siting.

**Intro to Photovoltaic System Installations**
Walt Novash, Johnson Controls Inc

Walt Novash will share his knowledge of photovoltaic systems installation. The presentation will cover OSHA regulations, Basic Site Assessment, Mechanical Installation, and PV Systems, Electrical Installation and standard Operation and Maintenance needs. If you are interested in becoming a certified photovoltaic installer – this one of the session's at the Summit you need to attend.

**Presenter Biographies:**

**Walt Novash**

Walt Novash is a Program Manager for Renewable Energy at Johnson Controls, specializing in photovoltaic (PV) systems. Prior to coming to Johnson Controls, he worked as a PV project manager and system designer for several solar firms in Wisconsin. He is a NABCEP-certified PV installer, and has extensive experience in site evaluation for PV, solar hot water, and wind systems. At present he is also very involved with Johnson Controls' internal PV training program for engineers and service technicians.

**Clay Sterling**

Clay has been working for the Midwest Renewable Energy Association since 1999. During that time, he has worked closely with the stakeholders in the organization to develop and market a training program that has grown from just under 200 students per year to serving over 1,900 students each year. The program has experienced a 30-50% growth each year.

Clay has a construction background gained from working in his families plumbing shop and also working 9 years as a commercial electrician on large construction projects. He has a B.S. degree from University of Wisconsin Stevens Point in Resource Management with an emphasis on Environmental Education.

While working for the MREA, he has been involved with several renewable energy installations; in particular, 4 wind installations for the MREA. Clay maintains three of the MREA's wind turbines and one at home.

Clay has lived in an off-grid PV powered home for 8 years.