

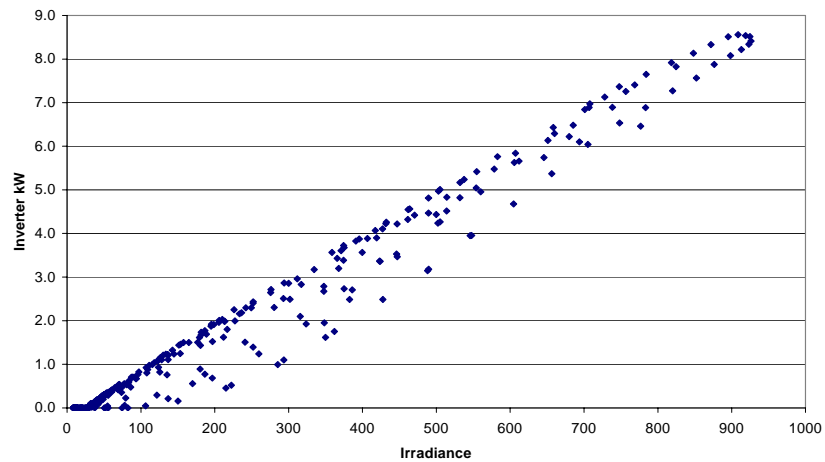
**ARCHITECTURAL ENERGY**  
CORPORATION  
*Integrated Engineered Solutions*

## Mary Cofrin Hall, University of Wisconsin

Green Bay, Wisconsin



Photovoltaic Roofing, Inverter Output (kW) vs.  
Global Irradiance (W/M<sup>2</sup>), February 14-20, 2002



The plot above verifies the operation of a standing seam Building Integrated Photovoltaic System (10kW) at the Mary Cofrin Hall.

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Mary Cofrin Hall is the main academic classroom building on the University of Wisconsin at Green Bay campus, and also contains environmental laboratories, faculty offices, and several scientific collections. As a University sustainable design showcase, the building incorporates many energy, daylighting, and sustainable design strategies, including ambient daylighting of all classrooms, roof-integrated and glazing-integrated photovoltaics, Solarwall ventilation air pre-heating system, and extensive use of low environmental impact materials. Architectural Energy Corporation, as the Commissioning Authority, was responsible for commissioning all lighting controls and all renewable energy systems.

## Project Information: Mary Cofrin Hall

Project Type	University Classroom and Laboratory
Client / Commissioning Services Team	<p><i>Client:</i></p> <p>Division of Facilities Development Wisconsin Department of Administration Madison, Wisconsin</p> <p><i>Commissioning Authority:</i> Architectural Energy Corporation Boulder, Colorado</p>
Size	129,850 ft <sup>2</sup>
Location	Green Bay, Wisconsin
Year Occupied	2001
Project Highlights	<p>AEC measured and set classroom illumination levels and tested system functions. We coordinated with the lighting controls contractor, University maintenance and operations staff, audio/visual contractor (AV), electrician, architect, and owner to establish on a classroom-by-classroom basis how to integrate the daylight harvesting, AV, and other classroom scenario details into the lighting control system. Contractor shortcomings required several iterations of testing, reporting, and correcting to achieve a functional integration of daylight harvesting, AV, astronomical and time clock events, timed overrides, and occupancy sensors. AEC's commissioning effort ensured that the automatic lighting system met occupant comfort requirements and maximized energy efficiency.</p> <p>The Solarwall™ provides pre-heated air to the outside air supply of the building. AEC integrated the functional performance testing of the Solarwall with the mechanical system testing. Changes to the control sequence as well as the duct work were recommended and implemented. AEC also used trend data from the building automation system to evaluate the performance of the Solarwall system.</p> <p>The Building Integrated Photovoltaic system includes a comprehensive performance monitoring system. AEC used data collected from the monitoring system to evaluate the installed performance of the photovoltaic system, and commission the roof-integrated and glazing-integrated PV system.</p>



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