



**Commercial**

## Stevens Point Municipal Airport



*A black SolarWall® solar air heating system at Stevens Point Municipal Airport, Wisconsin*

### Background

The Stevens Point Municipal Airport is home to a new SolarWall® solar air heating system on a community airport hangar in Wisconsin. The new hangar is designed to accommodate eight single-engine planes, with space in the hangar available for rent by pilots. Like any hangar building, ensuring adequate indoor ventilation is a key consideration. As well, Joe Wheeler, the airport manager at Stevens Point, wanted to guarantee that the ongoing energy costs were lower than a traditional hangar. This led to the consideration of several sustainability options, and the SolarWall® air heating technology was an easy fit.

### Solution

Conserval Systems worked with our Wisconsin representative (Sunny Solutions LLC) to design a SolarWall® system for the solar-rich, south facing wall of the hangar. The SolarWall® system spans 1300ft<sup>2</sup> (120m<sup>2</sup>) of collector area. The addition of this black solar system on the white wall creates a visual contrast, and succeeds in drawing attention to the fact that it is a "solar heating wall".

\*Stevens Point Mayor Andrew Halverson praised the new SolarWall® installation stating "We want to be a leader in sustainability issues," and the project was a way for the city to put "its money where its mouth is" on energy-saving and environmentally friendly projects.

### Results

The SolarWall® system is powered by the sun to pre-heat building ventilation air; thus reducing the heating load and the building's fossil fuel consumption. This creates a more sustainable and healthier building, with improved fresh air ventilation and lowered heating bills. SolarWall® solutions enable clients to save money while saving the environment.

The SolarWall® system on the Stevens Point Airport hangar is projected to produce over 73MWh of energy, and reduce over 19 tons of CO<sub>2</sub> annually, yielding a payback period of just over 6 years. The Stevens Point SolarWall® system also qualified for a *Focus on Energy Incentive*, a Wisconsin based organization that assists cost-effective energy efficiency and renewable energy projects.

\*Quote from StevensPointJournal.com "New Hangar uses Green Technology" by Meredith Thorn

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