

RESIDENTIAL CASE STUDY

The Payne residence outside of Prescott, Wisconsin

Over a decade has passed from when the Payne’s built their home. Nestled along the tree line they have enjoyed the energy savings from a Geothermal system from the day that they moved in. Now, with energy prices rising faster than ever they decided to improve their already efficient home by adding a solar electric system. Located atop of their barn the Payne’s now produce a significant portion of their energy from the sun and the earth.

Our Challenge: Design a system that will maximize efficiency while keeping the overall aesthetic appeal.

Our Solution: Use a solar specific tilt up kit to position the solar panels at the optimum angle to the sun, use deeper set solar rails to hide and protect all wiring runs, and match the angles of the panels from two different roof lines.



System Description

System Size: 6kW
Panels: 24
Panel Type: Solar World 250

Inverter Type: (2) Power One 3.0
Mounting Equipment: Pro Solar Tilt legs

kWh Generated Annually: >7400 kWh
Lbs of CO2 Removed Annually: > 10,200 Lbs
Trees Saved: 1.3Acres



Plug into the power of solar