

PAT JUETT & ULF GAFVERT

RESIDENCE AND BUSINESS

SOLAR PV

Over the past 25 years, our work around the home has created a diversity of habitat that supports birds, pollinators, and ourselves. Having debated the idea of going solar for some time, the group buy was definitely an encouragement to go forward. We may not realize the net gain ourselves, but we believe it is the right thing to do.

Pat Juett & Ulf Gafvert, owners



System overview

- Roof mount PV installation on sauna building
- Installed by Let it Shine Energy Services
- Grid-tied to Xcel Energy with net metering and Residential Time-of-Day Service

Technical specs

- 4.97 kW dc consists of 14, 355-watt solar modules manufactured by Seraphim
- Modules Model SRP-6MA made in China

- Inverted from DC to AC using Fronius Primo 6.0 Inverter
- Fronius web-based monitoring
- Estimated generation is 6175 kWh per year

Incentives

- 30% Federal Investment Tax Credit for renewable energy (\$4457)
- Focus on Energy Prescription Grant paid for 12% of the system (\$1783)

Costs

- Total cost including solar system and electrical: \$14,855
- Out of pocket costs after incentives: \$8,615
- Estimated payback of 10.5 years
- 25-year annualized internal rate of return: 9%

Additional Highlights

- Nearby pottery studio – From the Earth Studio
- High tunnel produces commercial produce
- Ulf specializes in pepper production
- Multiple vegetable, fruit and flower gardens surround homestead