

DIANE AND GREG TETZNER

RESIDENCE NEAR TETZNER DAIRY

SOLAR PV

Two Tetzner brothers teamed up with Cheq Bay Renewables Solar Group Buy last year and installed solar photovoltaic installations at their respective houses. Sited across the street from each other and next to Tetzner's Dairy, this year's tour highlights Diane & Greg Tetzner, while Jackie and Kevin Tetzner focus on a new grandchild! Tetzner's Dairy is a three-generation local landmark and was proud to host the Chequamegon Dairy Days just last month.

Diane & Greg's installation included an upsized inverter so additional solar modules could be added at a later date if they so desire. It also was offered as an "electrician ready (ER)" system by contractor Next Energy Solution. An electrician ready option gives the site owner the opportunity to hire their own electrical contractor to make the grid connection or do some of the electrical installation themselves under the inspection and certification of a master electrician.

Diane & Greg Tetzner, owners



System overview

- Adjustable ground-mount style PV installation
- Installed by Next Energy Solution with electrical by Timberland Technical Services

- Grid-tied to Xcel Energy with net metering

Technical specs

- 6.48 kW dc consists of 24, 280-watt solar modules manufactured by Peimar
- Modules Model SG280P made in Italy
- single-phase system, 12 modules per string
- Inverted from DC to AC using Fronius Primo 8.2
- Fronius web-based monitoring
- Estimated generation is 9,200 kWh per year

Incentives

- 30% Federal Investment Tax Credit for renewable energy
- Focus on Energy Incentive Grant

Costs

- Total cost including solar system and electrical: \$21,595
- Out of pocket costs after incentives: \$13,116
- Estimated payback of 10.5 years
- 25-year annualized internal rate of return: 9.5%

Additional Features

- Oversized inverter for future module expansion
- “Electrician-ready” option from Next Energy Solution where site owner hires preferred electrical contractor
- Jackie and Kevin Tetzner also installed an 8.1kW solar array across the street