

# ELISA VOSS & STEVE LEWIS RESIDENCE

## SOLAR PV

"We were motivated to install this solar system in an effort to be more carbon neutral in our energy consumption. We want to help reduce the negative impacts of climate change. It has been a pleasure working with Next Energy Solution and Cheq Bay Renewables!"

Elisa Voss and Steve Lewis

### System overview

- Iron Ridge ground-mounted PV installation
- Installed by Next Energy Solution with electrical by Nick Montano of Ember Sustainable, LLC
- Grid-tied to Xcel Energy with net metering

### Technical specs

- 4.65 kW DC consists of 15, 310-watt solar modules manufactured by Silfab
- Modules Model SLA310M made in Canada with 25-year performance warranty
- Built-in web monitoring
- Inverted from DC to AC using Fronius Primo 5kW string inverter
- Estimated generation is 6,040 kWh per year

### Incentives

- 30% Federal Residential Tax Credit for renewable energy
- Focus on Energy Prescription Grant paid for 12% of the system

### Costs & Benefits

- Cost of fully installed system was \$16,002
- Out of pocket cost after incentives: \$9,281
- Estimated payback of 11 years
- 20-year annualized internal rate of return: 7%
- 20-year tax equivalent yield at 21% tax bracket: 8.9%

### Featured Highlights

- Aesthetic layout
  - Black Silfab modules and frames
  - Integrated landscaping
  - Approval in Bayfield Historic District

[www.cheqbayrenewables.org](http://www.cheqbayrenewables.org)