



Eco-Solar Home Tour 2025

Saturday 7 June, 10 am to 5 pm

Sturgeon NZE Geothermal

Tour Day: Sat 7 Jun

Address:

Hosts: Homeowners

Parking: Available

Energuide Rating: 0 GJ/yr



Summary points why people need to see your home

- ICF basement and main floor construction.
- Horizontal geothermal field.
- No gas in the house.

What will people see and learn about at your home?

- First-hand experience constructing a horizontal geothermal field.
- First-hand experience operating a large solar system.
- Permaculture practices.





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Sturgeon NZE Geothermal

Why is this home on the tour?

Our home is completely heated and cooled by a ground source heat pump. We do not have any natural gas in the house. The land above the geothermal field is a pasture for animals and a budding orchard. We also have a 178-kw solar system to support our house and farm. The home itself is an ICF basement and main floor with a 2x6 framed second floor. The second floor has two inches of foam installed on the outside of the house. The attic insulation is R80.

What features save on energy costs?

- Ground source heat pump
- Solar array
- Heat pump washer dryer

What features save on water costs?

Other special features

We have a very large flower garden my grandmother maintains. We have apple, pear, cherry, plum, apricot and mulberry trees on site that we enjoy. This spring I am taking what I have learned with my 14 fruit trees and planting 40 more trees overtop of the geothermal field.

