

CHANGE
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Edmonton



Butterwick



Eco-Solar Home Tour 2020

Sunday 7 June, 9 AM to 4:30 pm

Nojack Off-Grid Straw Bale Home

Tour Day: Sun 7 June

Address: **Nojack**

Hosts: Homeowners

Parking: In driveway

Energuides Rating: n/a



Summary:

- Off grid home
- Straw bale
- Round house

What will people see and learn about at your home?

- Composting toilets
- Off grid 5.34 kW solar system with batteries and diesel backup
- Straw bale construction

What are the main things people will see at your home?

- Off grid electric system
- Strawbale construction
- Composting toilets
- Wood heating and cooking

Are there main items that they can't see?

- Straw insulation
- Passive solar





Eco-Solar Home Tour 2020

Nojack Off-Grid Straw-Bale Home

Why this home is on the tour.

Our home is a 2008 sq ft round off-grid straw-bale home on 50 acres about 3.5 km north of highway 16 on Hwy 751 and then west on 1.5 km of gravel road. We have a 5.34 kw solar PV system of 16 panels and 24 batteries. We have composting toilets and heat solely with wood although we do have a propane boiler and infloor heat to satisfy building codes. We also only cook with wood through the winter. both heating and cooking are with our pioneer princess stove. In summer we cook with countertop induction burners. We made use of passive solar principles in design so have a lot of south facing glass and a concrete floor. We have an electric hot water tank with a heat pump and LED lights throughout. We used a lot of poplar and tamarack in finishing. We do have a Facebook page if you want to see pictures. It is "Cori and Gerald's Excellent Strawbale adventure".



What features save on energy costs?

- Passive solar window placement and floor mass
- Wood heat and wood cooking in winter
- Off grid solar 5.34 kW PV array with 24 batteries
- LED Lights throughout
- Use wood for heat and cooking

What features save on water costs?

- Composting toilets
- Heat pump hot water tank

Are there any other special features you want to highlight?

- Straw bale insulation
- Local wood species finishing

