



Eco-Solar Home Tour 2020

Saturday 20 June, 10 am to 4:30 pm

Coalhurst NZE Home

Tour Day: 20 June 2020
Address: Coalhurst
Hosts: Homeowners
Parking: On street
Energuide Rating: 0 GJ/yr

Summary points why people need to see your home

- A very high-performance home
- With enhanced insulation the home provides maximum comfort, free of drafts and temperature fluctuations.



What will people see and learn about at your home?

- Eliminate the gas line to save money and reduce carbon footprint
- Comfort of continuous insulation and significant airtightness

Are there main items that they can't see?

- R-54 walls, R-100 ceiling, R-21 under slab, R-23 ICF foundation

innotech
windows + doors

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Homes





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Why is this home on the tour?

Having been constructed nearly 10 years ago, this home set a precedent for high-performance building in Lethbridge and surrounding area. The home is powered and conditioned by solar photovoltaics and a geothermal ground-source heat pump, leaving no need for a gas line. Despite not having an EnerGuide test, all utilities have been tracked since construction 10 years ago and the home has demonstrated net zero energy on an annual basis. This home was built with the sole purpose of increasing comfort, while reducing monthly operating costs.

What features save on energy costs?

- Solar PV
- Thermal Solar Panels (2) with 80 gallon storage tank
- Well-insulated, air-tight envelope
- Ground source heat pump
- LED lighting
- Energy Star appliances

What features save on water costs?

- Low-flow fixtures throughout home
- Drain water heat recovery

Are there any other special features you want to highlight?

- Xeriscape in front reducing water usage

