



Eco-Solar Home Tour 2022

Saturday 18 June, 10 am to 5 pm

Coalhurst NZE Home

Tour Day: 18 June 2022

Hosts: Home builder/ owner

Parking: On street

Energide Rating: 0 GJ/yr.

Summary points why people need to see your home

- High performance home awarded: CHBA Net Zero, EnergyStar & Platinum Built Green
- With high insulation R-values, this home provides maximum comfort, free of drafts and temperature fluctuations.

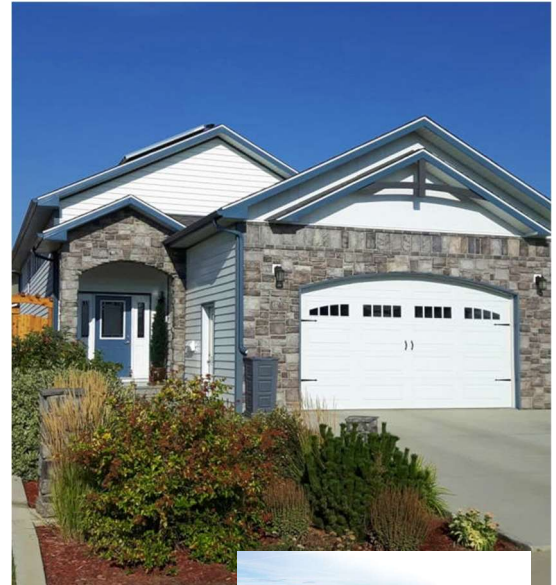
- Geothermal heating/cooling
- Photovoltaic Solar and Solar Hot Water

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
- Airtightness of 0.37 air changes per hour

Are there main items that they cannot see?

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





Eco-Solar Home Tour 2022

Coalhurst NZE Home

Why is this home on the tour?

Having been constructed nearly 12 years ago, this home set a precedent for high-performance homes 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. All utilities have been tracked 10 + years demonstrating net zero energy on an annual basis. This home was built with the purpose of energy efficiency and reducing operating costs, while increasing comfort and functionality.

What features save on energy costs?

- PV Solar Panels
- Thermal Solar Panels (2) – 80 gallon storage tank
- Geothermal Ground Source Heat Pump
- Air Source Heat Pump – water heater
- LED Lighting
- Triple Pane Windows
- Heat Recovery Ventilation System
- Home Energy Monitoring System – tracking energy production and consumption in real-time
- Premium Insulation Values
- Astounding ACH of 0.37

What features save on water costs?

- Low-Flow Water Fixtures
- Dual Flush Coroma Toilets
- Drain Water Heat Recovery

Are there any other special features you want to highlight?

- Xeriscape in front reducing water usage
- Raised vegetable garden beds
- Hard scape back yard
- Sola tube lighting in bathrooms
- EV ready in the garage

