



Eco-Solar Home Tour 2020

Saturday 20 June, Noon to 4:30 pm

Varsity Village NZE Home

innotech
windows + doors

SOLAR
CLUB



Tour Day: 20 June 2020

Address:

Hosts: Homeowners

Parking: On street

EnerGuide Rating: 0 GJ/yr



Summary points why people need to see your home

- To experience an EV-Ready, Net Zero Energy infill in West Lethbridge

What will people see and learn about at your home?

- Benefits of unconventional double-stud framing resulting in R30+ walls
- How to get to Net Zero by reducing energy demand and using solar photovoltaics

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

- 4 bed, 3 bath home with attached triple-car garage
- GeoComfort ground-source heat pump systems and solar pv
- HRV – Heat Recovery Ventilation system
- Expansive green space view

Are there main items that they can't see?

- Staggered stud framing with environmentally-friendly, water-blown ½ lb spray foam insulation to reduce energy demand
- Raised heel trusses for additional insulation in attic, R80+
- Home is generator-ready for resiliency in power outages





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Why is this home on the tour?

Newly constructed by Greener Homes, This 3rd-party verified Net Zero Energy, Built Green Platinum home was an infill in the established Varsity Village neighbourhood. The homeowners wanted a comfortable living environment, to save money on operating costs, and for their home to be more resource-efficient. The thick, well-insulated, air-tight walls with triple-pane windows provide ultimate comfort for the occupants. The home does not have a gas line connected as it is heated and cooled by a ground-source heat pump. For every unit of power the ground-source heat pump uses, it produces 3 units of heat. The home produces as much energy as it uses on an annual basis through solar photovoltaic panels. Visitors will be able to experience the comfort the home provides and learn about the benefits of buying or renovating to the Net Zero standard.



What features save on energy costs?

- Highly air-tight envelope with ACH50 of .48
- Energy star appliances including induction cook top
- Air-source water heater
- LED lighting throughout home
- Drain water heat recovery

What features save on water costs?

- Low-flow fixtures throughout home
- Dual-flush toilets

Are there any other special features you want to highlight?

- Superior Xi + pre-cast concrete foundation with embedded insulation that uses 50% less cement than typical foundation and comes drywall ready to eliminate need for additional framing for developed basement
- Home is constructed with concrete fibre board and 30-year shingles for resiliency, durability, and low-maintenance