



Eco-Solar Home Tour 2022

Sunday 5 June, Noon to 5 pm

Woodhaven NZE Home

Tour Day: Sun 5 June
Hosts: Homeowners
Parking: on street
Energuide Rating: 0 GJ/yr



Why people need to see your home

To see how the components and technologies attain, not only a sustainable home but also healthy and comfortable living.

What will people see and learn about at your home?

- Upgraded insulation and sealing of building envelope
- High efficiency space and water heating equipment
- No on-site fossil gas emission (all electric)
- Solar panel system

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

- Solar panels
- Air Source Heat Pump systems for space heating
- Air Source/Hybrid Hot Water Tank with backup storage tank
- Drain Water Heat Recovery unit
- Energystar/High efficiency appliances
- EV charging

Are there main items that they can't see?

- High efficiency wall assemblies/High insulation value in attic
- Rigid insulation under the basement slab
- AeroBarrier sealing



Butterwick





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Why is this home on the tour?

As an early adopter and technology enthusiast, wanting to promote positive change and demonstrate that achieving NetZero is possible even in Alberta's climate. Our high efficiency home is on tour to showcase NZE technologies in hopes of educating and encouraging others to adopt greener technologies, including solar/electric vehicles. Also value the importance of playing a role in addressing climate change by reducing the carbon footprint and reliance on fossil fuels.

What features save on energy costs?

- Upgraded wall assembly to minimize thermal bridging
- R-80 ceiling, R-34 walls, R-10 under basement
- LED lighting, air source dryer, air source water heat
- Triple Pane window w/ 2 Low-E coating Argon gas fill
- Multi-lock door system and windows for better seal
- AeroBarrier air sealing system (aerosol application)
- Thermodrain 6' drain water heat recovery unit
- Air source heat pump, HRV and back-up heat coil for heating and cooling
- Non-venting/recirculating stove hood fan w/ carbon filter
- Non-venting condensing clothes dryer
- LED Lighting and induction cooktop
- Air source hybrid water heater
- Gravity fed hot water recirculation
- 11,520-Watt solar PV system

What features save on water costs?

- Low flow plumbing fixtures
- Trunk and branch system with recirculation loop for hot water (which is insulated) save thousands of gallons of potable water because hot water is available at all top floor plumbing fixtures within seconds

Other special features

- Active radon gas venting system (w/ Radon Fan)
- Upgraded structured & entertainment wiring
- EV only home (no internal combustion vehicles)
- Electric car plugs in the garage

