



Eco-Solar Home Tour 2026

20th June, Saturday Noon to 5 pm

Mongomery NZE Home

Tour Day: 20th June,
Saturday
Address: 4811 Montana
Cr NW
Hosts: Homeowners
Parking: on street
Energuide: 0 GJ/yr



Solar Club Member

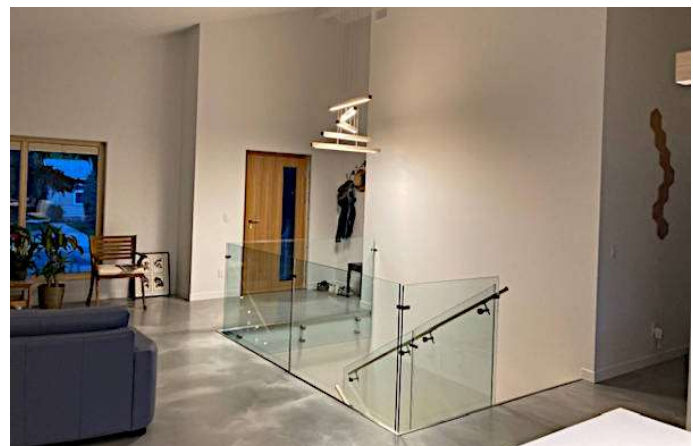
Summary

The main things that people will see and learn about the home are features that

- make this home a Net-Zero Energy home as per EnerGuide testing done in compliance with standards of NRCAN
- minimize how much energy and water the home consumes
- supply solar energy to the home, EV charging, and to the grid
- provide resilience to the home minimizing life-cycle costs

What the main things people will see at your home?

- Passive House Certified windows and exterior doors, their orientation and shading
- Solar PV panels / "shingles", inverters, EV charging facilities and bi-directional meter
- solar thermal collector banks and system that controls and utilizes this energy
- mini-split heat pump system, enthalpy recovery ventilator, hot water re-circulation pump, high efficiency appliances (clothes drier, clothes washing machine, dishwasher, induction cook-top, steam oven)
- "water-wise" landscaping, lighting systems



Calgary



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Montgomery NZE Home

Why is this home on the tour?

As a Net-Zero Energy home, it showcases examples of energy-efficient ideas that could be of interest to others that follow energy efficient home design. The design objective was to prioritize comfort, function and energy efficiency in that order. Efforts made to pursue energy efficiency also delivered comfort. Project summary: The property was purchased in June, 2020 with a 60 year old home and garage on the lot. It was rented out starting the next month for a 1 year period while the owners researched how they would like to redevelop the property with a new home and garage. After discussions with local custom home builders, the owners decided to apply for authorization as a NHPB Owner-Builder. We hired the owner of a Calgary home builder to act as an advisor as we proceeded to carry out the project as the General Contractor. After asbestos removal, the demolition permit was issued in July 2021 followed by construction. The Permit to occupy was issued 11 months later. The construction could have been completed in 8 months if it was not for a 100 day delay that was beyond the owners' control.

What features save on energy costs?

- Design that follows many design principles of the Passive House Institute (PHI)
- Extent and effectiveness of envelope insulation and air sealing
- Quality and placement of doors and windows
- Solar gain design
- Use of solar energy
- Use of energy efficient appliances, mechanical systems and utilities distribution
- Landscaping

What features save on water costs?

- Appliances and toilets that minimize water usage
- "Water-wise" landscaping

Other special features

- Lighting
- Exterior resilience
- Factory-built prefabrication

