



# Eco-Solar Home Tour 2025

Sunday 15 June, 10 am to 5 pm

## Bragg Creek NNZ Home

Tour Day: Sun 15 June

Address:

**Bragg Creek**

Hosts: Homeowners

Parking: On street

Energuide Rating: 22 GJ/yr



### Summary points why people need to see your home

- High efficiency houses are attainable with a few intentional building details
- All-electric energy home with solar panels and an “envelop first” approach.

### What will people see and learn about at your home?

- Efficient and compact layout
- Passive House principles
- Heat pump heating/cooling system with ERV
- Passive-Standard tilt & turn windows, and doors
- I-joint outrigger wood-frame wall system
- 8.8 kW solar array on roof

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

- Efficient and compact layout
- Heat pump heating/cooling system with ERV
- Passive standard tilt & turn windows, and doors
- Solar array on roof

### Are there main items that they can't see?

- Insulation (walls, attic, and slab)
- I-Joist outrigger wall system
- Super-insulated thickened edge concrete slab
- I-joint outrigger wall system



Calgary





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## Bragg Creek NNZ Home

### Why is this home on the tour?

This family home is built to Passive House Low-Energy Building Standard by a Passive House certified architectural firm (Flechas Architecture). The home is constructed using an I-joist outrigger wood-frame wall system and is fully powered by electricity featuring a heat pump heating/cooling system with ERV. The home's design has south-facing windows and a roof line created to maximize solar gains and solar panel capacity. Simple choices like a heat pump dryer, tankless toilets, induction stove, increase efficiency.



### What features save on energy costs?

- Passive House Low-Energy Building Standard followed
- High-performance building envelope
- Minimal Thermal bridging
- Airtight construction
- Fully electric energy sources
- Air-source heat pump system with high efficiency ERV
- Solar panels
- High-performance (insulated frame and triple glazed) windows and doors
- Window orientation, window sizing and room design
- Induction stove
- Heat pump dryer
- LED lighting



### What features save on water costs?

- High efficiency toilets, fixtures, appliances
- Short runs for pipes
- Well-water and septic system

### Other special features

- Carbon Upcycling low-emission concrete slab
- Garden and 4-season greenhouse for food production
- Composting for soil regeneration
- Chickens for egg production
- Electric car ready garage
- Intentional bathroom design to maximize space/ minimize resources
- 1700 sq ft smaller custom home

