



# Eco-Solar Home Tour 2024

Sunday 9 June Noon to 5 pm

## Lake Bonavista NZE Retrofit

Tour Day: Sun 9 June  
Address:  
Hosts: Homeowners  
Parking: On street  
Energuide Rating: 0 GJ/yr



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

- Older homes can be renovated to improve the insulation, air sealing and air quality while fitting in with the neighborhood.
- Cold Climate Air source heat pumps work in Alberta

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

- Warm, comfortable Net-zero retrofit home.
- Radon and CO2 monitoring and control.
- Energy monitoring and home automation





# Eco-Solar Home Tour 2024

## Lake Bonavista NZE Retrofit

### Why is this home on the tour?

This 50-year-old 2 storey split was substantially renovated to reduce its heating load by 60%. With the addition of a heat pump, hybrid water heater and Solar panels it is now Net Zero! Air barrier and at least R20 was added to the basement, the above ground walls and the roof. The HRV recovers heat from the upstairs bathroom exhaust air. An additional vent was put in the basement to reduce radon levels. In addition, home automation is used to reduce the electrical consumption. A key element was ensuring the exterior maintained the character of the neighborhood.

### What features save on energy costs?

- Daikin Heatpump/Rheem Hotwater heater
- Panasonic 200 HRV, tied into bathroom fans
- Airthings air monitor and controlling Radon and CO2 levels.
- Home automation (lights, reducing vampire loads)
- Sense and Emporia Vue Energy Monitors and what they do
- Everything powered (including future electric car) without upgrading the 100 amp service

### Other Special Features

- An HRV and air quality monitor are key to the design
- Home automation significantly reduces energy
- Wood fireplace provides ambience and warmth within the Netzero guidelines.

