



Eco-Solar Home Tour 2024

Saturday 1 June, Noon to 5 pm

Brookside NNZ Retrofit Home

Tour Day: Sat 1 June

Address:

Hosts: Homeowners

Parking: On Street

Energuide Rating:

16 GJ/yr



Why people need to see your home

- Panelized deep-energy retrofitted single-family home
- We don't have natural gas & we love it
 - Air-Source Heat Pumps work here!
- We don't have a lawn & we love it
- Every building needs to decrease energy losses this decade
 - You can do it, too!

What will people see and learn about at your home?

- Solar with tracking of electricity production and usage
- Induction cooking & high-efficiency electric heating
- Permaculture

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

- Air-source heat pump, energy-recovery ventilator
- 'Air-tight' high-efficiency wood stove
- Food forest

Are there main items that they can't see?

- Airtight envelope & insulation
- Swale (underground rainwater distribution)



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Why is this home on the tour?

We want to share our learnings - you too can make and execute a plan to be energy efficient and get to net zero and get connected to the land. A permaculture front yard conversion made the previous lawn a bustling new ecosystem, providing pounds of fruit and veggies, learning, and visiting opportunities, and free mental and physical wellbeing space. We electrified through an Energiesprong panelized deep-energy retrofit, so we now use an air-source heat pump and an ERV, have capped our property's gas line, and added more neighbour-visiting space thanks to a front deck.



What features save on energy costs?

- Deep-Energy Retrofit using Energiesprong panelized technique
- Insulation, including below-ground
- Triple-pane windows
- Air-tight envelope,
- energy-recovery ventilator (ERV)
- Air-source heat pump
- Heat-pump hot water tank
- No more natural gas
- Added a cold room
- Solar

What features save on water costs?

- Rainwater retention - rain barrels,
- Swales for underground rainwater distribution
- Minimal exposed soil - mulch, paper, straw

Other special features

- Permaculture food forest / veggie garden
- Induction stove
- High-efficiency wood stove
- Cold room

