



Eco-Solar Home Tour 2024

Saturday 8 June Noon to 5 pm

Huntington Hills NNZ Retrofit

Tour Day: Sat 8 June
Address:
Hosts: Homeowners
Parking: On street
Energuide Rating: N/A



What will people see and learn about at your home?

- A modified roof, opening more space for solar panels.
- Insulation went on top of the roof; new trusses were built.
- Insulation added to basement exterior walls.
- They can see the mechanicals, heat pumps, ERV etc.

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

- Photos showing what they can't see.
- Air barrier, roof mods, exterior foundation and wall insulation.
- 2 heat pumps, ERV., and Solar.





Eco-Solar Home Tour 2024

Huntington Hills NNZ Retrofit

Why is this home on the tour?

We bought our 1969 split level home in 2004. Although we made some energy efficiency improvements over the years, it was still a leaky 55-year-old house with 2 x 4 walls. It had an addition built onto it sometime in the 1970's, so it's energy use was higher than other houses in our neighbourhood. We didn't want to tear it down and start again, so we opted for an energy retrofit. We contracted SolarHomes to do the job. The retrofit entailed a roof modification, air sealing, insulation, an ERV, heat pumps, solar PV to be provided by KCP Energy in April 2024, and removal of the natural gas service.



What features save on energy costs?

- Continuous air barrier wraps over walls and roof. Enabled by cutting the eaves off and rebuilding trusses after the air barrier was installed.
- Added R60 fiberglass batt to the modified roof, kept the existing attic insulation in place.
- The attic is now part of the house envelope. This method known as a 'chain saw roof'
- ACH 4.5 pre construction, 1.5 mid construction, will provide a post reno ACH
- Added R20 rigid foam board insulation to most of the foundation walls down to the footing level. Added R25 rockboard to the exterior walls.
- 2 cold climate air source heat pumps. A larger ducted hp and a smaller non ducted mini split, and an ERV. Back up electric heat in the main hp air handler.
- Natural gas disconnected.
- Bathroom venting through interior to ERV. Stove hood vents to kitchen, leaving the dryer vent as the only wall vent. The only roof penetration is 1 plumbing vent.
- 200 amp service upgrade, roughed in an EV charger outlet.
- An 80 gallon hybrid heat pump/electric hot water heater.
- Solar pv system Planning 17.5 kw, the final sizing is pending regulatory approval.
- We kept the existing windows, they are decent double panes that replaced the original sliders in 2006, added and a few triple panes more.



What features save on water costs?

- 2 x 275 gal cube tanks

