



# Eco-Solar Home Tour 2020

Saturday 13 June, Noon to 4:30 pm

## Huntington Hills Solar Home

4 Elements

www.4Elements.eco



Calgary



innotech  
windows + doors



SkyFireEnergy  
Solar Energy Systems

SOLAR  
CLUB



SIMPLE SOLAR

Tour Day: Saturday 13 June

Address:

Hosts: Homeowner

Parking: On street

Energuides Rating: 79 GJ/yr



### Summary:

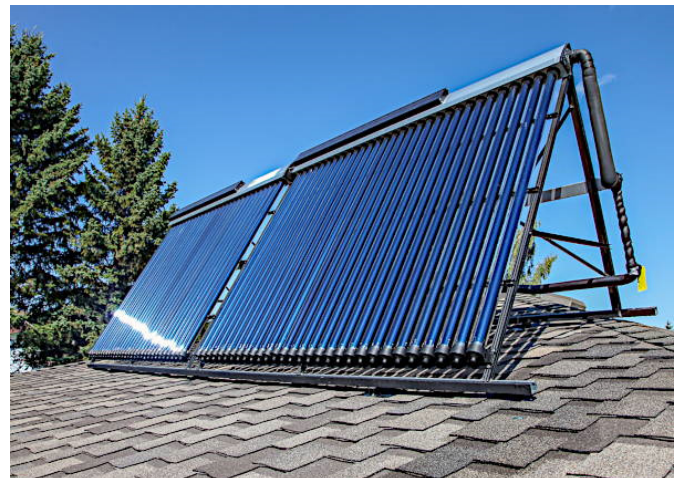
- New roof-mount PV racking system that is fully integrated into the building envelope.
- The home also has a solar hot water heating system.

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

- Learn how solar PV can power a home and provide long lasting roof protection.
- Learn about how solar thermal heating works.
- Learn about the importance of insulation and a tight building envelope for reduced energy use.
- Learn about how suburban home owners can reduce energy costs and GHG emissions.

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

- Unique solar PV arrays
- R50 attic foam insulation
- Solar hot water heating system
- Magnesium oxide pre-fabricated building system on shed





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### Why is this home on the tour?

There are two solar technologies to be showcased. The first is the solar PV racking system installed on two accessory buildings in the backyard. The new racking frames eliminate the need to install racks on top of shingles before mounting the solar PV array. The frames attach directly to the roof and with the solar panels, provide a waterproof envelope for the buildings. The second feature I would like to showcase is the solar thermal heating system in the home. One of the accessory buildings is made of prefabricated magnesium oxide structurally insulated panels (SIP). This building material is fire proof, water and mould resistant and has superior insulating properties.



### What features save on energy costs?

- Solar PV system
- Solar thermal water system
- Heat exchange ventilator
- R50 attic insulation
- R36 basement wall insulation
- High efficiency furnace
- On-demand water heater

### What features save on water costs?

- Low flush toilets

### Other features

- It's a retrofitted 1971 starter home bungalow using technologies that are widely available to anyone trying to live life more sustainably in the suburbs.

