



# Eco-Solar Home Tour 2020

Saturday 13 June, Noon to 4:30 pm

## Richmond NZR 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: Homeowners

Parking: On street

Energuides Rating: 71 GJ/yr



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

- MardaView does not “look” like a Net Zero Ready home.
- Researching and analyzing a build project is time well spent

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

- A large part of building a successful efficient structure is the complimentary integration of: design, materials, lot, workers, owners, trades and mechanical systems.

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

- 18” thick walls
- Concrete Floors
- Canadian made Windows
- A wicked view of the Mountains

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

- 100 Mile Diet style materials procurement process
- Struggles with City Planning
- Concrete constructed walls
- Sub \$300 winter monthly utility cost for 5000 sqft of living area.





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## Richmond NZR Home

### Why is this home on the tour?

We submitted Mardaview for the EcoSolar tour to showcase “simplicity and longevity” in efficient housing design. Because the house was built to last centuries rather than decades, it was essential to “build in” ease of maintenance, ease of utility retrofit and floor plan flexibility. No interior load bearing walls, an unobstructed utility run from the basement to the third floor and simple yet efficient mechanical systems are as important to make a structure long-lived as much as the construction materials themselves.



### What features save on energy costs?

- Insulation: R38 walls, R60 Roof
- Tight Envelope 0.17 ACH @ 50pa
- Passive Solar Design

### What features save on water costs?

- Low Flow Faucets/Shower heads
- Xeriscape Front Yard
- Fake Grass

### Other special features

- Native Bee friendly back yard
- Living Roof on garage
- Owner Built Project
- Perhaps the most unique feature of the home is the lack of sacrifice to live within a smaller footprint. We keep the winter room temperature above 23 degrees C to keep our hairless cats happy and we still have ridiculously cheap utility bills.

