



# Eco-Solar Home Tour 2019

Sunday 9 June Noon to 4:30 pm

## Forest Lawn Retrofit

4 Elements

[www.4Elements.eco](http://www.4Elements.eco)



SkyFire Energy  
Solar Energy Systems

**CHE**  
POWER STRUCTURES



Tour Day : Sunday June 9<sup>th</sup>

Address:

Hosts: Homeowner

Parking: On street

Energide Rating: 82 GJ/yr



### Summary:

- We integrate water, energy, food and shelter in a small package. Our goal is to show Calgary and Alberta how to turn a negative footprint into a positive one.
- Sustainability and ultimately regenerative design can be comfortable, affordable and delicious.

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

- Moving from R7 walls to R30 walls. From R12 ceiling to R60, from R 0 basement floor to R15. Reducing ACH from 4 to ~1.
- Solar thermal system
- Drain water heat recovery
- 90% + efficient furnace
- HRV
- Solar tubes

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

- The integration of a regenerative food system into a retrofitted 1970 bungalow.
- Outdoor kitchen, 4 season greenhouse, rocket mass heater, abundant food forest and garden, rainwater harvesting.

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

- Insulation





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## Forest Lawn Retrofit

### Why is this home on the tour?

Avis home is an example of sustainability. Features include solar thermal system, drain-water heat recovery, rain water harvesting, solar light tubes, rocket mass furnace, urban farm with permaculture features.

### What features save on energy costs?

- Solar Thermal
- Drain water heat recovery
- Solar light tubes
- Complete energy retrofit of walls, attic and floors

### What features save on water costs?

- Rainwater collection
- Low flow faucets
- 95% of water that falls on site is managed in on site storm water management and LID type gardens to produce food.
- Passive irrigation

### Are there any other special features you want to highlight?

- The majority of the property is dedicated to growing organic nutrient dense food
- Rocket mass heater
- Passive solar greenhouse
- Cob Oven and outdoor kitchen
- Food forest

