



Better Choices  
Better Homes  
Better Lives



# Eco-Solar Home Tour 2017

Sunday June 4 2017

## Devon Solar Home

Tour Day: Sunday

Address:

Hosts: The House Company

Parking: Available on Street

Energide Rating: Estimated  
Rating to be 85



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

- It is a 3-generation home with one “walk-out” suite
- Basement is heated with a boiler & radiant concrete floors
- Venting by HRV (Heat Recovery Ventilator)
- No forced air or furnace
- Both active & passive solar systems
- 10.8kW solar electric system

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

- Experience home heating from the floor up, boiler system creates heated radiant concrete floors (very comfortable)
- Venting by HRV (Heat Recovery Ventilator) No Forced Air
- Insulation Specifications = Walls/R32, Attic R50, Bsmt Walls R30, Bsmt under slab concrete R-8.

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

- Large triple glazed windows,
- Thermal chimney located at the top of sloped ceiling
- Motorized awning window
- House orientation designed for passive heat gain on concrete floors
- Interior windows that open for natural cross breeze ventilation
- Steel Roof installed to deflect solar heat gain from summer months





Edmonton, Alberta

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## Devon Solar Home

### Why is this home on the tour?

This Devon located home was constructed on an infill lot and built with a very high standard of energy efficiency. This home capitalizes as much as possible on simple passive solar design techniques. The south orientation allows solar heat gain on the concrete floor, which is then circulated throughout the home with the use of a ventilator unit. The ventilator improves indoor air quality because it continually filters all the home's fresh air. The heating requirements for this home are minimal because of the tight building envelope and extra insulation.



This home is a great example of social resiliency and sustainability as it unites three generations of one family all living under one roof. All while staying true to the "North American Norm" of providing each family with their own individual space.

### What features save on energy costs?

- Solar (active & passive)
- Condensing gas boiler & in-floor heat
- Concrete floors on both levels to store heat & regulate temperature

### What features save on water costs?

- Low flow fixtures

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

- Metal Roof
- Unique multi-generational living option

