



# Eco-Solar Home Tour 2021

Sunday 6 June 4:20 to 5:00 pm

## Beaumont NZE Home



*Butterwick*



*Linh Allen*  
SNOWFLAKE PHOTOGRAPHY



**Tour Day:** Sun Jun 6  
**Time:** 4:20 to 5:00 pm  
**Hosts:** Homeowners  
**Energuid Rating:** 0 GJ/year



### Why people need to see your home

- A net zero home that is elegant and family oriented.
- This house has a passive solar design with the ideal solar orientation and incorporates roof overhangs to provide summer shading, supplemented by adjustable awnings, to eliminate the need to cool the house in the summer.
- The super insulated walls and roof are as efficient in keeping the summer heat out as keeping the winter cold out.
- A rainwater collection and use system

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

- Double wall system with an additional 2" styrofoam wrap on all exterior walls.
- Triple glazed, low-e coated; Argon gas filled windows.
- Extra airtight design
- Natural shading against summer heat by house design, augmented by adjustable exterior shade devices
- R60 insulation in the walls and R100 in the attic
- R40 Insulation in basement walls & R7.5 under the slab





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### Features that save water costs

- Energy efficient hot water tank with drain water heat recovery system
- Rainwater storage system; 3800-gallon cistern used to flush toilets and water gardens
- Low Flush toilets and low flow faucets

### Efficient Mechanical system

- No gas line to house – heated by electricity only
- 13.2 KW photovoltaic solar panel system that produces 17 MWH of electricity annually
- The annual cost for electricity usage including heat is \$365
- Two energy efficient electric furnaces with ECM motors creating two heat zones with separate thermostats
- Highly efficient dual core ‘Lifebreath’ heat recovery venting, supplemented by a preheat electric coil in the air intake pipe, heat sensor activated, that will bring the efficiency of this system to the 90% range
- Electric fireplace

### Other Green Features

- Built Green Platinum rating
- Analysis of costs and energy use of Built Green details will be on display during the tour
- Sustainable lumber used in construction
- No VOC paints
- Materials are sorted for recycling during construction stage
- Energy efficient appliances
- LED Lighting throughout

