



Eco-Solar Home Tour 2022

Saturday 5 June, Noon to 5 pm

Belgravia Garden Suite

Tour Day: Sat 5 June
Hosts: Homeowners
Parking: on street
Energuide Rating: 30 GJ/yr



Why people need to see your home

- New style of retirement living
- Energy efficiency
- Adaptable to handicap living

What will people see and learn about at your home?

- Thicker walls with more insulation
- Mechanical room with air source heat pump
- Energy efficient furnace, HRV

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

- Thicker wall with more insulation
- Mechanical room with interior air source heat pump, and more
- Exterior air source heat pump



Butterwick





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Belgravia Garden Suite

Why is this home on the tour?

We have lived in a 1073 sq. ft. home on this property for 26 years. Upon retiring, we entertained the idea of building a rental suite in our large backyard to generate income. It soon became clear that we could benefit greatly by designing a new backyard building for ourselves, converting the existing house to two suites with minimal cost and disruption. This lane or garden home has environmental and accessibility features that would have been prohibitive to create in the existing house. The new house is serviceable for two ambulatory adults at present, but items like roll in shower and wider doors have been included to



make it easier to age in place. An attached single garage has lane access as does the front door. This 1150 sq. ft. bungalow with full basement is net zero ready and addresses issues of energy efficiency, densification and enhanced retirement living.

What features save on energy costs?

- R40 exterior, R80 attic, and R40 basement insulation
- Airtight design with HRV
- Triple glazed, low e argon windows
- Passive solar design with 4' roof overhangs where summer shading is needed
- Solar ready wiring
- Air source heat pump with high efficiency natural gas furnace as backup heat source for temperatures below minus 17 C.
- Air source heat pump dryer
- Air source heat pump hot water tank
- LED lighting throughout

What features save on water costs?

- High efficiency toilets
- Low flow faucets
- Drain water heat recovery
- Rain barrels

Other special features

- Composting