

**CHANGE
FOR
CLIMATE**

Edmonton



Butterwick



Eco-Solar Home Tour 2020

Sunday 7 June, Noon to 4:30 pm

Windsor Park NZE Home

Tour Day: Sunday 7 June

Address:

Hosts: De Waal Developments

Parking: available on street

Energuide: 0 GJ/year

- This net zero home produces its own energy including all energy required for the home office, attached secondary suite and an electric vehicle.

- This home shows a creative way of increasing density in a mature neighborhood within walking distance of an LRT station. A secondary suite on top of the attached garage is seamlessly integrated into the design of this home.



Why this house is on the Eco-Solar Home Tour

- This home is on the tour to show that it is possible to live a completely energy independent lifestyle in a northern climate. A lifestyle without gas bills or driving to a gas station for the rest of your life. It is also an example of a creative way of increasing density in a mature neighborhood.





Eco-Solar Home Tour 2020

Windsor Park NZE Home

Features that save on heating costs

- Passive solar design
- 2x8 walls filled with closed cell spray foam plus 2” rigid foam on exterior of the home to act as a thermal break.
- Basement walls with 2” rigid foam on the inside and outside of the wall plus an R20 batt insulation on the inside of the wall
- R100 Attic insulation
- Airtight construction techniques confirmed by blower door test at various stages during construction
- 6” rigid foam insulation under basement slab



Features that save on electricity costs

- A 20 Kw solar array on the south facing roof that provides all required energy to power the home and the attached garage suite
- An additional 5 Kw solar array on the west facing roof to provide the electricity required to operate an all electric vehicle.
- Passive solar design is an ancient technology that does not necessarily cost extra.
- ASHP water heater
- ASHP space heating
- High efficient HRV
- LED lighting
- Induction cooking
- European wood burning stove



Features that save on water costs

- Low flow faucets
- Dual flush toilets
- DWHR unit