



Eco-Solar Home Tour 2022

Saturday 11 June, 10 am to 5 pm

Airdrie NNZ Home

4 Elements

www.4Elements.eco



Calgary



SkyFireEnergy
Solar Energy Solutions



GOelectric
VEHICLE CORPORATION



Tour Day: Saturday 11 June

Hosts: Homeowners

Parking: On street

Energuide Rating: 38 GJ/yr

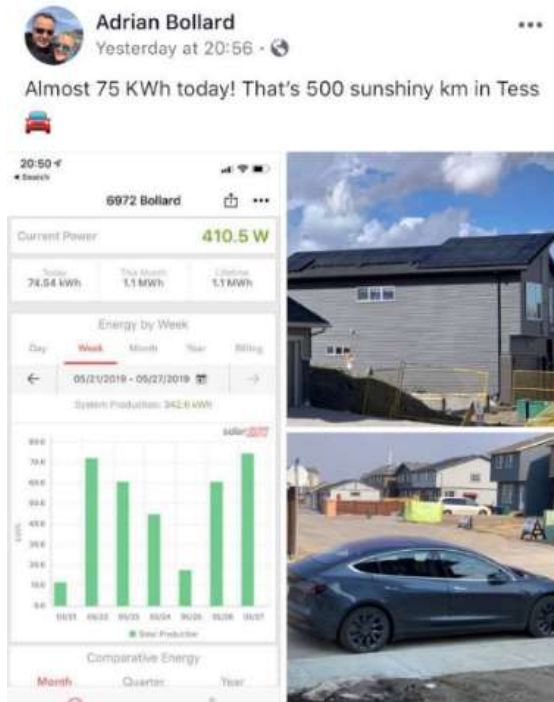
Summary points why people need to see your home

- 10.5 kW solar array
- Energy efficient home
- Electric car



What will people see and learn about at your home?

- Solar panels produce most of electricity needs of the house & car
- Solar Edge energy monitoring live streaming output
- Electric Vehicle charging from solar at 8kW (50 km/hour)
- Heat-Pump hot water tank
- HRV
- Triple Glazed Windows
- Double Cell Honeycomb Blinds
- Rain Barrel
- Battery electric mower and trimmer





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Airdrie NNZ Home

Why is this home on the tour?

The house is 'Near Net Zero' with a 10.5 KW solar array producing 13,000 KWH / Year. The house was built by Excel Homes under the 'Built Green' program, with a high level of insulation & airtightness. We added a heat-pump pre-heat hot water tank to utilize the solar and minimize gas usage. Honeycomb cellular blinds double the insulation value of the triple glazed windows (R3 + R3). We are super passionate about energy efficiency & green buildings. Keen to show what's possible with adding solar to a new build.



What features save on energy costs?

- 10.5 KW Solar Array (13,000 KWH / year)
- R60 Attic insulation
- R20 Walls
- Basement underslab insulation R16
- HRV & 1.05 Air Changes per Hour Airtightness
- Triple Glazed Windows (R3)
- Honeycomb Double Cellular Blinds (R3)
- LED Lights
- Energy Star Appliances
- Electric heaters on each floor
- Solar Club pays a higher rate for net exports part of the year reducing solar payback



What features save on water costs?

- Low Flow Toilets (3 LPF)
- Low Flow Shower Heads
- Energy star dishwasher
- Rain Barrel
- Heat-Pump Hot Water Tank

Other features

- Electric car
- Electric car plug in garage
- Battery lawn mower, trimmer, blower
 - The sun helps grow & trim the lawn!

