

Renovator Peter Darlington, Solar Homes Inc.

Service Organization Enervision

Energy Advisor Cooper Le, 4 Elements Integrated Design LTD.

Net Zero Pilot Home Calgary, AB (Climate Zone 6)



NET ZERO RENOVATIONS PILOT HOME POST-RENOVATION DETAILS

BUILDING ENCLOSURE

- Windows:**
Lux Windows & Glass, Triple Glazed Low-E
- Walls:**
R16 EPS, R12 Batt
- Ceiling:**
R60 Blown
- Foundation:**
R20 Batt
- Envelope:**
35% better than NRCan reference house
- Airtightness (ACH @ 50 Pa):**
Pre-reno 4.55 → Post-Reno 1.27

MECHANICALS

- Fuel Source:**
All-Electric
- Heating & Cooling:**
Mitsubishi ASHP & Electric Furnace
- Water Heating:**
Electric heat pump
- Ventilation:**
Nu-Air HRV

RENEWABLE ENERGY

- PV System:**
15.6 kW Hanwha & CanSolar array
- Energy Monitor:**
Neurio



**(Estimated)*
\$2,500 /YR
SAVED
 On energy bills!

Testimonial

"I started planning a fairly typical renovation and stumbled across an article that was talking about net zero. It was like a lightbulb went off; I realized... I could generate all my own energy for the rest of my life. Not only is it cost-effective, but the home is more comfortable: year-round spring fresh air, consistent temperatures everywhere, no bugs, no outside noises, and virtually no energy bills for the home and [electric] car!"

*Utility cost savings based on EnerGuide energy profiles and assumes the following utility rates: Natural Gas: \$4.89/GJ plus carbon price: \$1.05/GJ \$40/month admin. Electricity: \$.11/kWh electricity plus \$25/month admin.