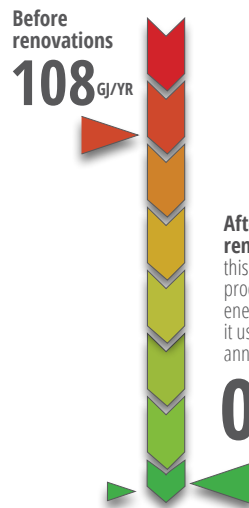


Renovator Peter Darlington, Solar Homes Inc.

Service Organization 4 Elements Integrated Design

Energy Advisor Cooper Le, 4 Elements Integrated Design

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:

R24 EPS added to exterior

Ceiling:

1.5" 2lbs spray foam, R60 Blown in

Foundation:

R20 XPS added to exterior (to 12" below grade)

Envelope:

34% better than NRCAN reference house

Airtightness (ACH @ 50 Pa):

Pre-reno 5.22 → Post-Reno 1.79

MECHANICALS

Fuel Source:

All-Electric

Heating & Cooling:

Daikin ASHP & Electric Furnace

Water Heating:

Electric heat pump

Ventilation

Greentek PH7.15ES

RENEWABLE ENERGY

PV System:

12.7 kW Canadian Solar PV array

Energy Monitor:

Sense



Homeowner Testimonial

"As a scientist, I had become very uncomfortable with my carbon footprint, and had decided it was important to me to get my home to net zero. Solar Homes was easy to work with, straightforward with their advice and approach to the problems we encountered, and I am happy and excited to have achieved my goal (and the house looks great!)."

*Utility cost savings based on EnerGuide energy profiles and assumes the following utility rates: Natural Gas: \$3.98/GJ plus carbon price: \$1.58/GJ \$40/month admin. Electricity: \$.08117/kWh and \$.14/kWh plus \$6/month admin. Strategic electricity rate shifting during times of high generation assumed, per renovator's recommendation to the homeowner to generate income stream.