

**Renovator** Graeme Huguet, My House Design Build Team Ltd.

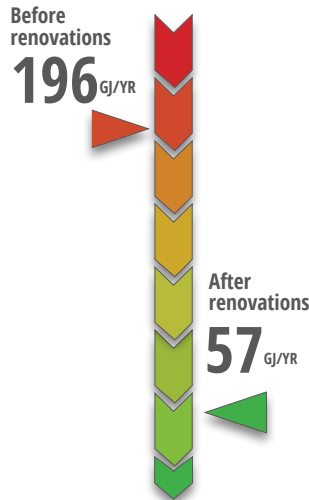
**Service Organization**

CHBA - BC,  
(City Green Solutions)

**Energy Advisor** Scott Silverthorn, Capture Energy

**Net Zero Pilot Home**

Vancouver, BC (Climate Zone 4)



## NET ZERO RENOVATIONS PILOT HOME POST-RENOVATION DETAILS

### BUILDING ENCLOSURE

**Windows:**

Vinyltek double glazing, US1 1.31 & 1.42

**Walls:**

2x4 R14 batt, 1" semi rigid, 2x4 R14 batt

**Ceiling:**

R66 batt and blown in

**Foundation:**

4" 2lb spray foam

**Envelope:**

35% better than NRCAN reference house

**Airtightness (ACH @ 50 Pa):**

Pre-reno 14.2 → Post-Reno 1.5

### MECHANICALS

**Fuel Source:**

Dual Fuel

**Heating & Cooling:**

LG Air Source Heat Pump

**Water Heating:**

Natural gas tankless

**Ventilation:**

Venmar CR12 HRV

### RENEWABLE ENERGY

**PV System:**

16.75 kW modelled PV array

**Energy Monitor:**

NEURIO W1-HEM



### Homeowner Testimonial

"I retired from the consultancy of the Integral Engineering Group whose specialty is designing deep green buildings two years ago. The concept of incorporating Built Green & Net Zero designs into a house is something almost ingrained. Thus when the opportunity arised for me to practise what I learned into my own home's renovation I had no hesitation to participate. I strongly feel that we should do our part to be energy conscious in our daily usages to benefit our next generation."

\* Utility cost savings based on Energuide energy profiles and assumes the following utility rates: Natural Gas: \$.297/GJ plus carbon price: \$.210/GJ \$13/month admin. Electricity: \$.116/kWh plus \$37.20/month admin.