Edmonton's Riverdale NetZero Energy House

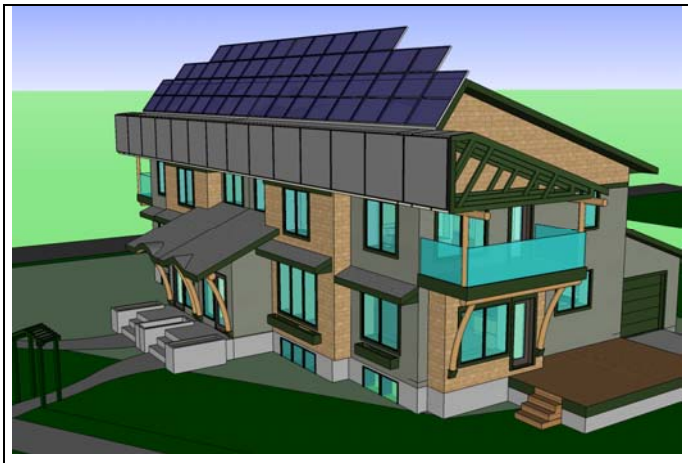
Healthy, Sustainable, Zero annual energy costs

Presentation: Gordon Howell, P.Eng., Howell-Mayhew Engineering

Where:	University of Alberta, ETLC	(Engineering Teaching and Learning Complex)
	Room ETL-E 1-017, on first floor	See other side for map.
When:	Tuesday, October 30, 7:00 pm to 8:30 pm (or so)	– with questions and answers time.
Cost:	Free.	Come early. Previous presentations on this were full.

Tour: Riverdale NetZero House 10004 87 Street, open to all, free

When:	Saturday, November 17, 11:00 am to 4:30 pm (open house format)
What to see:	Installed solar heating and solar power systems, high performance windows, partially-insulated walls, insulation details, ultra efficient wall construction, air tightness, and heat recovery water and ventilation. Discover details, ask questions, learn for your own house.
More info:	For more information and tours, please e-mail info@riverdalenetzero.ca.



Presentation

Come and hear an eye-opening discussion of what this house is all about, and what is now possible. It also helps you get the most out of the tour.

How do we achieve net zero energy? Why are we able to heat it at -32°C using 4 toasters? How are we able to heat it and power it with solar energy? Do we use geothermal too? How about cooling in the summer? Why don't we need natural gas? Can we send any excess solar electricity back to the grid? How much will it cost? Is it for sale? What does it take for you to build one too? What can you do on your own home?

Background

A net zero energy house generates all its own heat and electricity on an annual basis! Is this really possible here in Edmonton's cold northerly climate? Yes!

Canada's first 12 EQuilibrium net zero energy (NZE) houses are now being constructed across the country. Edmonton's EQuilibrium house, the Riverdale NZE duplex, is the most northerly one and will be completed in February. See www.riverdalenetzero.ca.

The technologies used in the house are all off the shelf. The way that they are designed and integrated into the house to achieve the net zero energy goal is new.

Riverdale NetZero Project Team

The team of 40+ Alberta specialists on the Riverdale NetZero house project has extensive experience in energy efficient house design and house building, solar heating and solar power engineering, sustainable materials, landscaping, water, technology transfer, research, banking, utilities, solar power and heating equipment, communication, and the environment.

The core project team consists of Peter Amerongen of Habitat Studio & Workshop, Andy Smith of Solnorth Engineering, and Gordon Howell of Howell-Mayhew Engineering. The project is being developed by Peter Amerongen on a non-profit basis.

CMHC's EQuilbrium Housing Initiative

EQuilibrium is a national sustainable housing initiative led by CMHC to develop homes and communities that address occupant health and comfort, energy efficiency, on-site renewable energy production, resource conservation, sustainable materials, reduced environmental impact and affordability.

EQuilibrium houses are leading the way in helping Canada's house building industry meet peoples' concerns about energy's environmental damage, security, utility costs, and affordability.

— You are welcome to post this on bulletin boards and send it around to your friends & colleagues. —

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EQuilibrium HEALTHY HOUSING FOR A HEALTHY ENVIRONMENT

CMHC EQuilibrium Housing Initiative
www.cmhc.ca
search keyword: "EQuilibrium"

Presentation Room

- Engineering Teaching and Learning Complex (ETLC), Room ETL-E 1-017, on the first floor.

LRT or Bus Directions

- Take the LRT or ETS bus to the University Station;
- Walk West on 87 Avenue to Stadium car park and then north to the ETLC.

Cycling or Driving Directions

- From Groat Road south of the river, go East on 87 Avenue, go North on 116 Street…

Or from 109 Street and 87 Avenue, go West on 87 Avenue, North on 116 Street…

- Then cycle right up to the ETLC.

Or drive along the black dotted line on the map to park at Windsor Car Park or Stadium Car Park.

- Walk along the yellow dotted line on the map to the ETLC.
- The walk from Windsor Car Park is 135 metres. From Stadium Car Park it is 205 metres, as measured on Google Earth.

Car Parking

- Nearby at the Windsor Car Park or the Stadium Car Park on the University of Alberta campus.
- Cost for UofA parking is $3.75 for the evening.