



EcoLiving Tour

www.ecoliveingevents.ca

June 19, 2010

Tour Guides: Dave Kelly – Sedmek dkelly@sedmek.com
Daryl Walz / Judi Vandenbrink - EcoLiving Events

9:15am Home Haven Bed & Breakfast 1204 – 29th St. NW

Facilitators: Mary Nokleby noklebym@telusplanet.net

Green reno, high efficiency heating, solar water heating, drain water heat recovery, and solar electric.

Description: The ultimate green renovation. During the renovation of the homes garage to a more livable space, the homeowners took the opportunity to upgrade the mechanical systems of the home. Both of the furnaces were replaced high efficiency condensing natural gas furnaces. The water heating system was also upgraded with drain water heat recovery and an EnerWorks solar water heating appliance. The 4515 Watt grid tied solar electric system with new Enphase microinverters and high efficiency Sanyo PV modules produces most of the electricity for the home. The per-module monitoring fro Enphase allows for incredible insight into the systems performance and operation.



10:15am The EchoHaven Demonstration Home Rocky Ridge (completed September 2010)

Facilitator: Debbie Wiltshire dwilt@telusplanet.net

The EchoHaven Demonstration Home is one of the homes in CMHC's national EQUilibrium Sustainable Housing initiative - http://www.cmhc.ca/en/inpr/su/eqho/eqho_015.cfm. The objectives of the EQUilibrium initiative are to balance our country's housing requirements with the need to preserve and protect our natural environment. This home will be a net zero home meaning it will produce at least as much energy as it consumes.

The features of the EchoHaven Demonstration Home include:

- south orientation for passive solar gain
- PV modules to generate electricity for the house
- solar thermal collectors for hot water
- electric heating – radiant panels in the ceiling
- heavily insulated envelope – walls-R54, ceiling-R108 and under slab-R32
- triple glazed fiberglass windows, low iron on south exposure for enhanced solar gain
- efficient appliances and low flow fixtures
- rainwater collection and a dedicated greywater line

The demonstration home is the first home in the EchoHaven community of 25 homes. The community features include: zero greenhouse gas emissions, 100% rainwater retention and balanced water management strategy, shared amenities and on-site renewable energy generation and the community design preserves more than 60% of the area's rich wetlands ecosystem and maximize solar exposure – www.echohaven.ca.

11:15am Bow River Weir & Constructed Wetlands
Facilitator (not confirmed) **and/or Daryl Walz**

It has been almost 100 years since the Bow River flowed freely through the City of Calgary. Since 1904, a weir to divert water for irrigation has blocked passage on the Bow. While useful and necessary for irrigation, this structure has proven to be an extreme drowning hazard and has claimed the lives of numerous victims.

The objective is to eliminate the dangerous condition created by the current structure and develop a design that is suitable for downstream passage by small boats and improve fish passage. Just as importantly, the intent is to

make the river look and behave more like a natural rapid so it would enhance the park values of adjacent lands. In addition to river safety, the principal benefit is considered to be the improvement to the appearance of the natural river shoreline along Pearce Estate Park.



The Pearce Estate Wetland is a city park located in Calgary, Alberta. The park occupies 21 hectares (52 acres, 0.21 km²) along the Bow River to the East of downtown Calgary. It is described as "constructed wetlands filled with native plants and animals". The land was donated to the city around 1929 by then prominent Calgarian William Pearce. An interpretative trail was opened to the public in 2004.

12:15-12:45 Lunch

1:00pm Jigsaw Homes 1937 - 49 Ave SW

Facilitator: Cory Kreiger at Phone: 714-3555 or cory@jigsawhomes.ca



This contemporary masterpiece, on a beautiful tree-lined street in Altadore, was created by Jigsaw homes and is one our High Performance, Energy Efficient homes. Natural light that floods the house through the large windows, Clerestory windows and skylights. This house is one of Jigsaw's HIGH PERFORMANCE-ENERGY EFFICIENT homes and has many innovative green features. Some of these include:

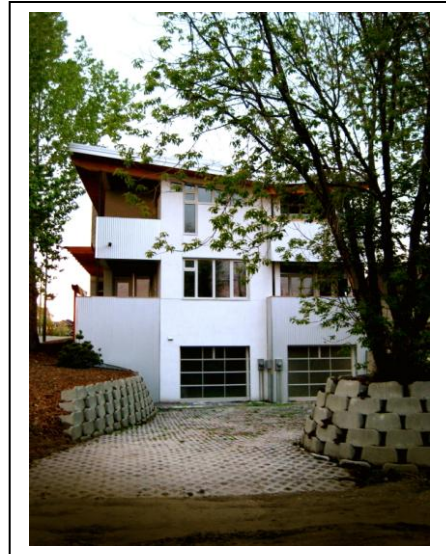
- Solar Thermal hot water heating system
- 95% efficient forced air furnace
- Whole home HRV
- Whole home Hepa air filtration system
- 2 pound, soy based spray foam insulation throughout
- Low-E, Argon windows
- External water circulation lines to reduce water waste
- 98% efficient tankless hot water boiler
- Remote opening skylights with automatic rain sensors
- Eco-bee wireless thermostat (can control from your i-Phone)
- Pre-wired for whole home automation

These features represent a few of the many energy saving items incorporated into this home.

2:00pm The Brama Project SW Calgary (Marda Loop)
Facilitator: Nicole Pitman nicolle@coleyhomes.com

Designed to produce more energy than it uses annually, the Brama Project is an inner-city exercise in resource efficiency. Passive solar design, geothermal heating and cooling, earth tube ventilation, HRVs, ICF/SIP construction and in-progress rooftop PV solar are key systems. Thermal mass plays an important role in the Calgary climate and this home has plenty of it. By exhausting passive strategies first, the size of active systems can be significantly reduced.

FSC and recycled materials, VOC-free finishes and Control 4 Home Automation complete this LEED Platinum targeted home.



3:00pm Climate Change Central #100, 999 – 8th Street SW
Facilitator: Janet Gehring

This office space contains: natural lighting, fabrics with no toxic material, low flow toilets and showerhead, certified wood – a renewable resource, eco-efficient carpeting made from recycled materials and installed as tiles so can replace a small area at a time and maple veneer reception desk made from salvaged logs.

Thank you for participating in the EcoLiving Tour, your interest in protecting the environment and your commitment to learn about energy efficient, environmentally friendly, sustainable technologies.

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