



CASCADIA REGION GREEN BUILDING COUNCIL

A CHAPTER OF THE US & CANADA GREEN BUILDING COUNCILS

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RSVP Required

Non-members: \$35

Members: \$20

Students and
Emerging Green
Builders: \$15

Helen Goodland, Executive Director at Light House “Green & Net Zero Home Renovation: One North Vancouver Example” April 12th – 5-7 pm, 2007

Helen Goodland, Executive Director at Light House

Net Zero Energy homes integrate high-performance, energy-efficient passive solar design and commercially available on-site renewable energy systems such as solar water heating, electricity and ground-source heat. They are designed to produce as much energy annually as they consume. Connected to the electricity grid, these homes draw power only as needed — and can feed excess power back into the system.

In response to CMHC Net Zero Energy Healthy Housing Pilot Demonstration Initiative, TQ Construction, Brantwood Design and Light House Sustainable Building Centre

proposed to investigate the potential for renovating Helen’s home to net zero energy consumption. The project involves such strategies as solar hot water heating, passive solar, a super-insulated building envelope and energy-efficient appliances and fixtures. On April 12th, Helen will be speaking about the project and will be available to answer questions about net zero energy and sustainable design in general. RSVP:

<http://www.liquidosity.com/cascadia/pages/HelenGoodlandNetZero.php>



Location

Room 102/103, 3350 Douglas St, Victoria BC

Cascadia Region Green Building Council

The Cascadia Bioregion stands out as an international leader in the advancement of the art and science of building that manifests a concern for future generations, while valuing the resources that are used today. Cascadia's mission is to promote the design, construction and operation of buildings in Oregon, Washington and British Columbia that are environmentally responsible, profitable and healthy places to live, work and learn.

Cascadia RGBC is unique in that we are bioregionally based and work in both the US and Canada. Cascadia is the local chapter of both the USGBC and CAGBC, and works extensively with green buildings and LEED (Leadership in Environmental Performance and Design) certified projects. There are offices in Portland, Oregon; Seattle, Washington; and Vancouver, BC, and there are eight Branches throughout the Pacific Northwest: Eugene and Portland in Oregon; Seattle, Spokane and Tacoma/Olympia in Washington and Vancouver, Victoria and Thompson Okanagan in British Columbia.

For more information, call Jessica Woolliams at 604-880-2915 or visit <http://www.cascadiagbc.org>

Background on the Hanvey – Goodland Green Renovation

The below info describes the Hanvey / Goodland renovation before the net-zero study was done and it was taken from: <http://casestudies.cascadiagbc.org/> If you want more info about the Net Zero study, come to the talk!!

- North Vancouver
- Building type(s): Single-family residential
- 25% new construction, 75% renovation of a 1970 building, complete in 2004
- 1,620 sq. feet
- Suburban setting
- Completed October 2004
- EnerGuide --Level: 71

Minimizing environmental impacts was a key consideration during the planning and execution of this project. One of its strongest environmental features is the design's efficient use of space, which allows for a smaller structure. This and other

This photograph shows the living room.
Photo credit: Richard Lam



design features such as careful construction waste management, high-quality construction methods, and the use of durable materials and fixtures help to keep the project's ecological footprint to a minimum.

A stormwater management system and the use of crushed stone on pathways and swales allow groundwater to recharge the site. Topsoil and other excavated materials were protected to minimize erosion during construction and reused on site. Three-fourths of the site's native vegetation was preserved and replanted as landscaping. Rainwater is retained in a rain barrel on site for use as irrigation.

Low-flow fixtures, including dual-flush toilets, reduce the home's potable water use by nearly half. Energy use is reduced through several strategies, including good insulation and efficient appliances. Materials were selected for their long lifecycles, local production, and contribution to good indoor air quality.

Bio

Helen Goodland is Executive Director of Light House Sustainable Building Centre. Light House is an enterprising non-profit society dedicated to catalyzing sustainability in British Columbia's built environment. Light House is where all British Columbians - industry professionals, building owners, government representatives and members of the public - can connect with the inspiration, information, services and skills they need to implement sustainable building solutions.

Through a series of initiatives including market analysis and education programs, Light House's staff of 10 green building professionals and 50 volunteers work to accelerate market transformation and economic development activities for BC's emerging sustainable building industry. Light House is also advancing both public sector programs and private sector initiatives through community engagement, research, partnership development, technical assistance and consulting services.

Helen is a LEED accredited UK-registered architect with over 15 years of expertise designing and building a wide range of green buildings in BC and around the world. Helen also holds a Masters in Business Administration from UBC and has been involved with both public and private sector organizations helping them understand and reap the benefits of the synergies between sustainable building and business practices.