

Cranberry Ridge:



A LEED Platinum home in
Freeport, Maine

Rod Beaton

Freeport, Maine

- Population: 8000
- Coastal Southern Maine, near Portland, 2 hours north of Boston.
- Home of L.L. Bean



Cranberry Ridge

- LEED Platinum
- 3200 square foot single family structure
- Greenfield construction on 2.6 acres near Wolfe Neck State Park

Energy Production

- 2.4 KW On-Grid Solar Photovoltaic
- 90 Tube Solar Thermal heat and hot water system with storage tank and heat overflow



Energy Efficiency

- Nu-Wool cellulose insulation
- High-efficiency windows
- .12 ACH on blower test
- Heat recovery on ventilation system



Site Sustainability

- 40%-50% of the site left untouched
- Porous surfaces used for driveway and walkways
- Erosion Control measures

Materials and Resources

- Efficient framing design (24" OC)
- FSC Certified Lumber
- Locally sourced siding, trim and granite
- 83% of waste recycled



Indoor Environmental Quality

- No carpeting
- Low VOC finishes
- Natural fiber entryway mats



Awareness and Education

- Owner's Manual Provided
- High Visibility Project
- On The Market For Over One Year

Downsides?

- Proximity to services
- Size
- Cost

References

Cranberry Ridge LEED Home. The Maine Chapter of the U. S. Green Building Council. <http://www.maineusgbc.org/index.php?module=Projects&func=display&pid=10> .

Fore-Solutions. http://fore-solutions.com/index.php?page_id=152 .

LEED For Homes Rating System. U. S. Green Building Council, 2007.

Listed Green Homes. <http://www.listedgreen.com/usa/maine/10cranberryridge/>.

Rafter, Dan. *Innovative Homes 2007: Cranberry Ridge*. Smart Homeowner, Jan/Feb 2007. <http://www.smart-homeowner.com/ME2/Audiences/dirmod.asp?sid=&nm=&type=Publishing&mod=Publications%3A%3AArticle&mid=8F3A7027421841978F18BE895F87F791&tier=4&id=B961B4D26E6545BCA0FEBCD61A3EFCF8&AudID=Better%20Home%20C%20Better%20Planet>

Revision Energy Residential Project Gallery. <http://www.revisionenergy.com/solar-power-project-gallery-residential.php>.

Richard Renner Architects. http://www.rrennerarchitects.com/freeport_green.htm#.

Thermotech Windows. <http://www.thermotechfiberglass.com/>.

Turkel, Tux. *A Subdivision Where LEED is the Standard*. November 4, 2007. <http://tchgetting2zero.blogspot.com/2007/11/subdivision-where-leed-is-standard.html>.

Turkel, Tux. *Unaffordably GREEN?* November 4, 2007. <http://tchgetting2zero.blogspot.com/2007/11/unaffordably-green.html>.

WarmTech Solutions. <http://warmtechsolutions.com/>.

Wright-Ryan Construction Blog. <http://wright-ryan.blogs.com/>.

Images:

L.L. Bean Image from http://commons.wikimedia.org/wiki/Image:Freeport_llbean.jpg

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