

Superinsulation Resources: Organizations, Websites, & Publications

Alaska.edu. Video - Outside Insulation

Technique <http://uasmedia.uas.alaska.edu/ramgen/uasonline/misc/OIT.rm> This links to a RealPlayer viewer. Click on RealPlayer "remind me later" and "next"... to avoid registration hassle.

Building Science Corporation (BSC)

www.buildingscience.com/doctypes/designs-that-work
www.buildingscience.com/search?SearchableText=deep+energy+retrofits
www.buildingscienceseminars.com/presentations/

Construction details, Building America reports, case studies, and presentations by BSC staff

Canada Mortgage Housing Corporation (CMHC)

Approaching Net Zero Energy in Existing Homes

CMHC report detailing benefits, barriers, and progression to net zero energy. Appendix A features decision trees integrating historical, physical, and durability challenges.

[ftp://ftp.cmhc-schl.gc.ca/chic-ccd/Research_Reports-Rapports_de_recherche/eng_unilingual/S60376\(W\).pdf](ftp://ftp.cmhc-schl.gc.ca/chic-ccd/Research_Reports-Rapports_de_recherche/eng_unilingual/S60376(W).pdf)

Cold Climate Housing Research Center

www.cchrc.org Located in Fairbanks, Alaska, this website has near real-time data from REMOTE wall systems (outsulation) and several different roof insulation strategies. Research, product testing, and outreach programs are detailed.

Coldham and Hartman - Info on deep retrofit and new superinsulated projects

www.coldhamandhartman.com/

Journal of Light Construction article by Bruce Coldham (Nov 2009):

[Six Proven Ways to Build Energy-Smart Walls](#) (members only)

Energysmiths (www.energysmiths.com) Links to Marc Rosenbaum's keynotes and conference presentations, case studies and info on superinsulated construction.

National Affordable Housing Network (www.nahn.com) Features optimization of systems – mostly focused on low energy affordable housing; optimization applies to existing homes. They have been superinsulating for more than 15 years.

Passive House Institute

Passive House Retrofit Kit (www.energieinstitut.at/retrofit/) (select English)

Passive House USA (www.passivehouse.us) Access to PH consultants and PDFs of presentations from their annual conference

Passiv Haus Institut (www.passivhaus.de) (select English)

National Grid For information, updates, and case studies about the National Grid Deep Energy Retrofit pilot in MA and RI: www.powerofaction.com/der/

NYSERDA Resources related to the Advanced Buildings Program including Deep Energy Retrofits Pilot (DRP), in www.nyserda.org/advancedbuildings/

Thousand Home Challenge

www.thousandhomechallenge.org Case studies and resources from Affordable Comfort Inc.'s North American deep energy reductions initiative currently in its pilot phase.

www.GreenBuildingAdvisor.com A wealth of information, blogs, and case studies. Martin Holladay's Energy Nerd stimulates lots of discussion on topics related to superinsulation.

SUPERINSULATION PROJECT BLOGS & WEBSITES:

Brownsberger, Will <http://willbrownsberger.com/?s=deep+retrofit&submit.x=14&submit.y=10>
Massachusetts DER duplex that is part of the National Grid DER pilot and the 6th project to officially meet the Thousand Home Challenge

Cheimets, Alex. **Massachusetts Super Insulation Project**
<http://www.blogger.com/profile/06274605316339158781> and <http://superinsulating.blogspot.com>
This project is documented in illustrated blogs providing unique detail and perspective.

The Everhart Passive House Project: One Family's Futurefit <http://everhartpassivehouse.net/>

Orr, Harold Fourplex; Also follow Harold on facebook for project updates
<http://solaralberta.ca/power%20point/Harold%20Orr.ppt>
<http://www.facebook.com/album.php?aid=258200&id=504662648>

Forest, Pearson Old Way of Seeing: Forest Pearson's Links, References and Projects
<http://forestpearson.blogspot.com/>

Rosenbaum, Marc How I'm thinking about our house, transportation, food and waste, to minimize environmental impact, while improving quality of life and having fun.
<http://thrivingonlowcarbon.typepad.com/>

THREE CLASSICS:

A Major Conservation Retrofit of a Bungalow

Harold Orr and Rob Dumont. 1987. National Research Council Canada. Ottawa, Ontario.
A 36-page report recording the upgrade and performance of this 1968 Saskatoon residence case study. <http://irc.nrc-cnrc.gc.ca/pubs/ir/ir540>

Major Energy Retrofits for Northern Climates

http://www.affordablecomfort.org/images/Uploads/major_energy_conservation_retrofits_us_doe_1984%281%29.pdf

Great detail from 1984 on many options for superinsulation as well as context. Classic and useful if integrated with current products and approaches. (NCAT 1084)

The Super-Insulated Retrofit Book: A Homeowner's Guide to Energy-Efficient Renovation

Brian Marshall and Bob Argue. 1981. Renewable Energy in Canada, 1981