

SUPERINSULATION RESOURCES: ORGANIZATIONS, WEBSITES, & PUBLICATIONS

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

www.buildingscience.com/documents/case-studies

Scroll down to “Cold Climate National Grid Deep Energy Retrofit Program” for case studies

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/

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 20 years.

Passive House Institute

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

Passive House USA (www.passivehouse.us) PDFs of conference presentations

Passiv Haus Institut (<http://www.passivhaus.de/index.php?id=95&L=1>)

National Grid For information, updates, and case studies about the National Grid Deep Energy Retrofit pilot and program in MA and RI:

Massachusetts - <https://www1.nationalgridus.com/DeepEnergyRetrofit-MA-RES>

Rhode Island - <https://www1.nationalgridus.com/DeepEnergyRetrofit-RI-RES>

Please take special note of the new "**Homeowner Step-By-Step DER Process**" document.

NYSERDA A wealth of resources related to the Advanced Buildings Program including Deep Energy Retrofits Pilot (DRP), www.nyscrda.ny.gov/advancedbuildings .

Document posted: www.thousandhomechallenge.org/resources

THC_DER_Superinsulation-Resources-revised 04-16-2014; send updates to lwigington1@outlook.com

Thousand Home Challenge

www.thousandhomechallenge.org Case studies and resources from this North American deep energy reductions initiative.

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

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

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 & waste, to minimize environmental impact, while improving quality of life and having fun. <http://thrivingonlowcarbon.typepad.com/>

Transformations is a Massachusetts-based residential development and building company that specializes in developing and building sustainable <http://transformations-inc.com/>

SUPERINSULATION: 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.

Major Energy Retrofits for Northern Climates

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

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

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