



## **BASEA** Forum: Thursday, December 8th -- *An Update on Deep Energy Retrofits*

### *An Update on Deep Energy Retrofits for Buildings - the Intersection of Human-Based and Energy Efficient Design.*

**With:**

- Brian Butler, Boston Green Building
- David Legg, former Manager of National Grid's Deep Energy Retrofit Program
- Henry MacLean, Timeless Architecture

The December forum provides a unique opportunity to discuss our experience with deep energy retrofits from three (traditionally orthogonal) perspectives: builder, energy efficiency manager and architect.

The group will examine several Deep Energy Retrofits (DERs) completed in the Boston Metro area, looking at establishing a model of construction costs, of energy savings, of ongoing monitoring and of client satisfaction.

They will review the fundamental components of DER projects at the limit of the National Grid protocol, from complete exterior skin retrofits to significant renovations and additions. They will also cover the emerging baseline in energy savings and associated costs of the projects for the greater Boston area and will contrast this baseline with other sub-regions in the Northeast.

The key to the success and growth of deep energy retrofits and net-zero design is how well it works -- not just in energy savings, but also in comfort and livability for the clients. As we gain experience in energy efficient design, what are we learning about how to incorporate principles of human-based design, i. e. an arrangement of space, circulation of air and light, a connection to the natural environment, the "Pattern Language" of building that creates energy and ease?

Location: First Parish in Cambridge Unitarian Universalist; 3 Church Street, Harvard Square  
Time: Doors open at 7:00 p.m.; Presentation begins at 7:30 p.m

**Brian Butler**, Boston Green Buildings, has over 27 years experience in the construction industry, earned his LEED AP in 2008, and has worked with 3 LEED certified projects. Through the National Grid program, Brian has finished 3 DERs; with one seeking Passivhaus "EnerPHIT" certification.

**David Legg**, consultant and trainer, has created and managed many residential Energy Efficiency utility programs, including the National Grid DER pilot program from inception through July 2011, with 26 units underway in the program.

**Henry MacLean**, Timeless Architecture, is an architect and educator in Milton, MA. He has been practicing and actively promoting green design with education and civic institutions in the northeast since 1988. His recently completed DER in Quincy, published in the Northeast Sun, is also participating in the ACI 1000 Home Challenge.

**Also Note -**

**January 12th, 2012: Weather in a Changing Climate.** From agriculture to flood control, it's time that we understand a little more about the meteorological patterns in our lives.

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