

SPF Industry News

Icynene Integral to Connecticut's First Net Zero Energy Home

Icynene spray foam insulation was used in concert with other energy efficient technologies such as solar power as part of a "whole-house" approach to building Connecticut's first net zero energy home.

Construction on the 3600 sq ft New England Farm House Style home was completed in November 2009 resulting in a house requiring no fossil fuels for heating and hot water, no net electrical usage from the utility company and no emissions from fuel burning equipment.



Icynene, the insulation of choice

Icynene was applied in the basement walls and above grade walls. In addition, Icynene was sprayed into the unvented attic, a chicken coop and a barn on the property. "We elected to use Icynene because of its corporate history, quality installers, high R-value and moisture control properties," said George Keithan, founder and president of Consulting Engineering Services (CES) in Middletown, CT and owner of the property.

LEED Platinum Certified

The home has been LEED (Leadership in Energy and Environmental Design) Platinum Certified, the highest level obtainable. It recently won the AEE Energy Award and remains a top contender in the Zero Energy Challenge. Shown in the recent Earthday DVD, the home is scheduled to be featured in an upcoming CBS National News Weekend Edition report.

"A net-zero-energy house is not a single technology but a suite of closely integrated technologies. An essential principle of the zero-energy design and building process is whole-house integration— careful planning to make all the components work together to achieve maximum energy savings," states George Keithan on the CES website.

About the Designers and Builders

More information on Consulting Engineering Services can be found at www.zeroenergyhomesct.com. The builder on this project was Essex Squared, LLC located at www.essexsquared.com.