

Bud Dietrich, AIA
My name is Bud Dietrich and I am an architect located in the Tampa Bay... [More >](#)

Houzz Tour: Innovative Home, Heated and Cooled by Design

Meet the Hudson Passive Project, one of the most energy-efficient home designs in the world

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Rather than relying on technology such as photovoltaic arrays and solar hot water heaters, a passive house is designed to maximize its ability to heat itself in winter and cool itself in summer. To do this requires careful consideration of a home's site and how the sun moves across the sky, where the trees and other vegetation are located, where the winters winds come from, etc. In this way, a passive house relies more on good design and proper site location than anything else.

Designed by architect **Dennis Wedlick**, this **Hudson Passive project** is the first certified passive house in New York State and one of the most energy efficient houses in the world. It was realized with the assistance of New York State and is designed in accordance with the standards established by the German Passivhaus Institut. These standards, which target an overall savings of 90 percent in the energy consumption, are common in Europe but relatively new in the United States, with only 12 houses certified to date.



Located in the Hudson River Valley about a two-hour drive... [More >](#)



The large glass wall at the south end of the house lets the... [More >](#)



Sunlight is transformed into heat as it passes through the... [More >](#)



The bedrooms and bathrooms are at the north end of the... [More >](#)



The loft area has views of the great room and out to the... [More >](#)

Comments

bepsf says:
Beautiful house - Reminds me of a church my family used to attend...

...and I love that it's "self-heating" - imagine how much less oil we would be importing if all our homes were so sensibly designed.



Bud Dietrich, AIA says:

Hi bepsf-

Dennis Wedlick is a really good architect who has been doing some really nice homes for many years now. I encourage you to check out his web site.

Cheers



Francisca Alonso says:

What a beautiful house and a great concept to follow! Great Design can be sustainable design.



Laurel Sternberg says:

Thanks Bud. I've seen this kind of design in Germany. I don't know why it isn't done more, could diminish energy needs so much.



Ellen T. says:

Beautiful house in so many ways. Simplicity at it's finest; thanks for sharing!



Kathryn Gardner says:

It looks like a cold barn.



laughablemoments says:

Well done! And in NYS, no less. :) So nice to see this built where we have some challenging weather conditions to live with. Would love to see more designs like this, especially in homes for larger families.



turtlebeak says:

The house itself is stunning. Though, I wish the architect had collaborated with an interior designer to complete the design. The kitchen would look much better in a contrasting wood, either a grey, white oak or walnut. If you are going to go for a monochrome look, even an all white approach would better compliment the architecture. Perhaps the house had not been finished yet, but they need different furniture, badly. I would love to have the opportunity to attack this interior & do the architecture a little more justice.



dwa625 says:

The furniture in these images are placed to show scale. Dennis Wedlick Architect LLC's Interior Design team beautifully furnished the home for a final photo shoot. You can view images in the new issue of Interior Design magazine: http://www.interiordesign.net/article/544217-Back_to_Nature.php



Jennifer Simpson Johnson says:

It reminds me of a beautiful minimalist cathedral. Breathtaking.



marmarmish says:

Cool design, I loved the "ribbed" effect. But I'm not sure I am buying the heating thing. We have a cottage; a basic A-frame with a prow that is all windows. Man, can you feel the cold coming in from the windows when the temps drop and/or night sets in.



mugsy1703 says:

Beautiful house ... definitely reminds me of a church so I imagine living there would inspire one to be closer to God. My concern would be the echo ... not too many soft surfaces ...



stmichael says:

dwa625: thanks for the final photo shoot pix. Stunning! We need more of this: thoughtful, inventive architecture, gorgeous welcoming interior design and extreme energy efficiency. I would be interested in the cost/sq. ft to build and to heat/cool, and if there are plans to make this design more mainstream.



smirick says:

If you're interested in Passive house design, Check out GOlogic in Belfast, Maine. \$160 per square foot! <http://www.gologichomes.com/featured-projects/passive-house.html>



Elizabeth Stelter says:

Lovely! I hope the architects of this house consider selling their plans on Nestiv.com, so that many people can benefit from this great design.

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