

green

It is more than just a label on a product. It is rather a thought process that synchronizes the structure, the occupants, and the environment.

Our Philosophy

The philosophy of creating a ZEH is to first reduce the heating, cooling, and power loads, by optimizing the efficiency of the structure, and installing appliances that require less power. We then match a renewable power source such as a solar system that are able to provide all the power that is needed under normal living conditions. That's energy independence!

Investing Pays

Currently the incentives to invest in a ZEH are very generous and often compelling to consider when evaluating your current options. The incentives can come in the form of Federal Tax Credit, State Tax Credits, or utility rebates and can add up to a sizeable amount which will bring the price of your home down significantly.



Affordable Sustainable Renewable A New Way of Life

Looking into the future can be much more rewarding and exciting when there is an alternative to managing energy that more closely matches our life goals.

A Division of Borkholder Buildings
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ZeroEnergy made simple



the challenge

One of the greatest challenges of our time will be unstable, unpredictable, and escalating energy costs for the American consumer. Planning and strategic investing can overcome this to a large degree.

the solution

Zero Energy Homes (ZEH)

An idea long imaged, now an affordable reality.



Solar Solution

The key to a good solar system is one that is dependable and consistent. Our system is manufactured with thin film and has a 25 year warranty which includes a "smart inverter" that is "grid tied". This eliminates the need for a battery backup system which is costly and may require a lot of maintenance.

Features of a New Energy Home

- High efficiency, engineered structure
- State of the art, grid tied, solar system.
- Geothermal heating and cooling system.
- Low-E insulated windows
- Materials with high recycled content
- More efficient use of framing materials
- 10 inch wall cavities
- Reflective foils on all 6 sides
- Steel roof with "cool color" paint system
- "Energy Star" & "Green Ready" certified
- 80% fewer thermal breaks in the wall
- Insulated concrete slab for heat retention
- Custom designs that are energy modeled
- Leading edge research



Seven Steps to ZEH

- 1 Design the structure and materials to reduce the energy load on the house
- 2 Decrease the energy requirements for space heating, cooling, and water.
- 3 Increase the efficiency of the furnace and the air conditioning
- 4 Install efficient lighting fixtures
- 5 Install efficient appliances
- 6 Install a properly sized Photovoltaic (PV) System.
- 7 Change your thought process and lifestyle - turn off lights, computers and appliances when not in use.

Zero Energy Buildings produce as much energy and power as they use. Our homes are based on Solar Trigereneration which is the simultaneous generation of cooling, heating, and power using only energy from the sun.

