



New Homes, Built Energy Smart.

About Zero Energy

Zero Energy, is a contractor that understands what it takes to build a home that is specifically designed to be energy independent. As an affiliate of Echelon Custom Homes, we can take advantage of our supplier and contractor relationships to offer the homeowner a sustainable product at a reasonable price. We can work with you through all aspects of the home building process from choosing your lot location to maximize the solar orientation, to integrating the proper renewable energy systems, to installing a rainwater reclamation system. We strive to be a contractor that is at the forefront of the "Greening of America" campaign and we will deliver a product to the consumer that is both environmentally responsible and energy independent.



Zero Energy's mission:
To design and build environmentally responsible homes using only the latest energy efficient building techniques. We can accomplish this by implementing a design plan that properly synchronizes the engineered building envelope with the mechanical and renewable energy systems.



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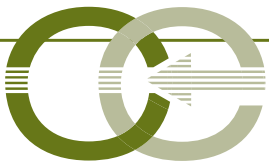
For more information on how Zero Energy can help you "Go Green" visit the website. You will find updates, seminar information, a glossary of "Green Terms", and Zero Energy's mission to provide:

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Characteristics of a Zero Energy Home

Passive Solar Design

Passive Solar design takes advantage of low angle winter sun to heat the house and implements techniques to mitigate the high angle of the summer sun to keep the house cool.

Conditioned Crawl and Attic Space

Conditioning the crawl space and attic has many advantages with the biggest being the HVAC ventilation system is entirely within the building envelope.

High Performance Windows

High Efficiency Windows, if sized properly, can reduce heating and cooling requirements for the HVAC system lowering energy loads for the home.

Renewable Energy Systems

Renewable Energy Systems are critical for a Zero Energy Home to counter-balance energy consumption.

- Solar Electric(PV)
- Solar Hot Water
- Wind Power
- Micro-Hydro

Efficient Lighting Design

The use of Compact Fluorescent Light bulbs (CFL's) throughout the house can dramatically reduce your energy needs.

- CFL's use 75% less energy than incandescent bulbs.

Energy Star® Appliances

Energy Star® qualified appliances incorporate advance technologies use 10-50% less energy and water than standard models.

Geo Thermal HVAC System

A Geo Thermal Heat Pump uses the earth's constant soil and water temperature to heat and cool your house. The two types are Open Loop and Closed Loop.

Air Sealing/Draft Stopping

Air sealing is done once the framing and windows are installed. Sealing penetrations between floors and to the exterior reduces leakage to the outdoors.

ICF Structural Elements

Insulated Concrete Forms(ICF) can create a sustainable building envelope while decreasing energy loads.

PEX Plumbing System

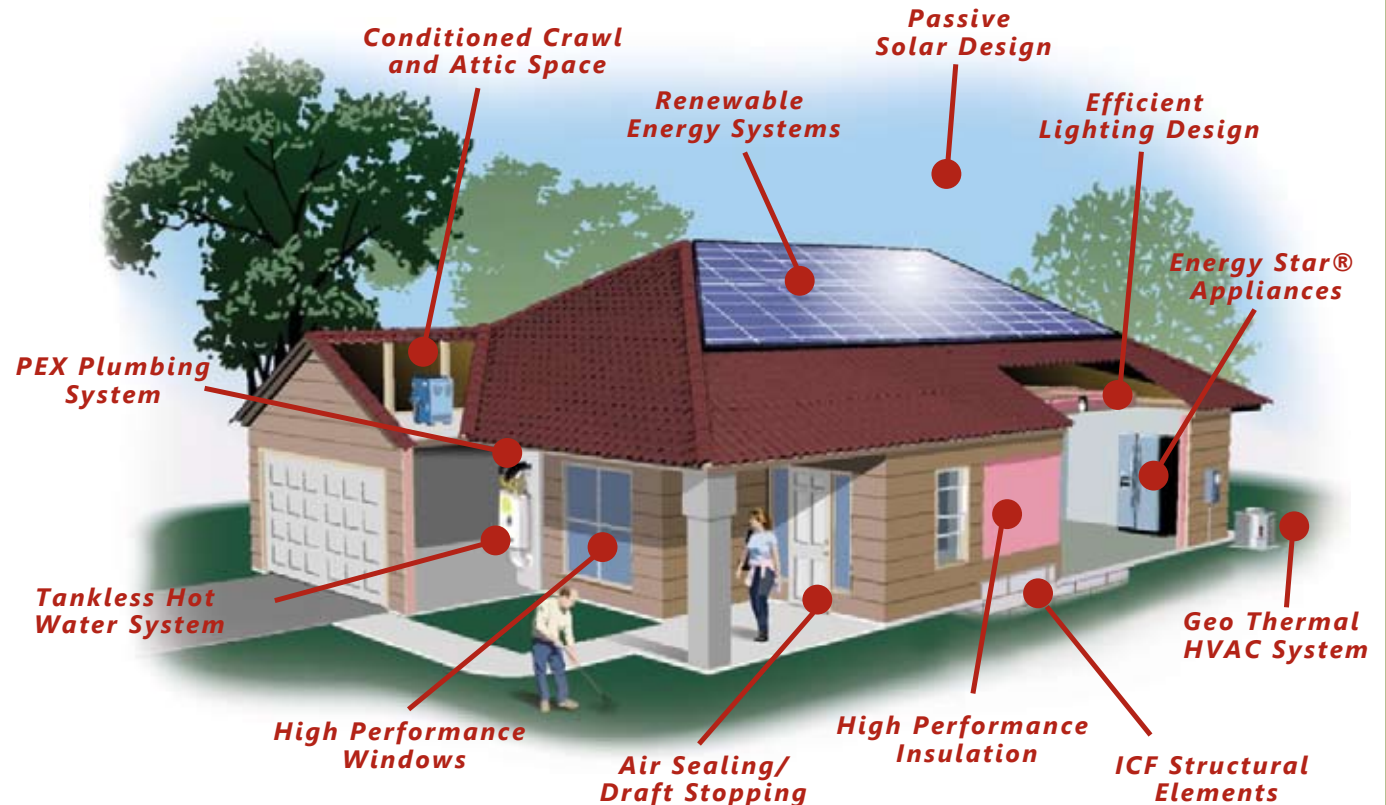
A PEX plumbing system is controlled through a central manifold system in which each line has a control valve that can be shut off during maintenance without shutting down the water supply to the entire house.

High Performance Insulation

Closed cell foam insulation can reduce monthly A/C bills by 30-50%.

Tankless Hot Water System

A tankless hot water heater can be used as a stand alone unit or as a backup to a solar hot water system.



All information is subject to change without notice.