

## Solar Solution

The key to a good solar system is one that is dependable and consistent. Our Solar System is a thin film panel, laminated to the steel roof, warranted for 25 years, and includes a "grid tied" smart inverter. This eliminates the need for a battery backup system which is costly and may require a lot of maintenance.



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zero never goes up

Affordable  
Sustainable  
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High Performance Homes

# 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

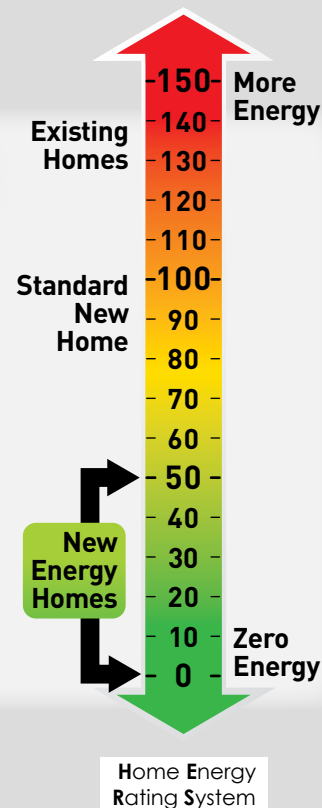
## FEATURES of a NEW ENERGY HOME

- » High-performance, engineered structure
- » 80% fewer thermal breaks in the wall
- » Geothermal heating & cooling system
- » Low-E insulated windows
- » Materials with high recycled content
- » More efficient use of framing materials
- » 10½" wall cavities
- » Reflective Barriers on all six sides
- » Steel roof with "cool color" paint system
- » Insulated concrete slab for heat retention
- » Custom designs that are energy modeled
- » Optional state-of-the-art, grid-tied solar system



## CONDUCTION CONVECTION RADIATION

Addressing all **three forms of heat transfer** is crucial to managing and reducing energy costs. This concept is integrated in the system design, and in the materials we use.



## SEVEN STEPS to ZERO ENERGY HOMES

- 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 and reduce the size of the HVAC
- 4 Install energy efficient lighting fixtures (LED)
- 5 Install energy 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