

ENERGY STAR HOMES:

Energy Star Homes consumes 30% less energy than the typical new house and prevents 4,500 pounds of carbon dioxide from entering the atmosphere each year! They maintain fresh air through exhaust fans and timers and keep their occupants comfortable with less drafts than a typical home. Transformation received the Energy Star Custom Builder of the Year Award at Fenway Park in 2005 for their homes on Marla Circle in Tyngsborough.

The homes in the Coppersmith Way Development in Townsend are expected to receive 5 star plus status, the highest evaluation given, and save over 50% of energy compared to the typical new construction home. Homes are expected to be heated for less than \$490 per year! A 2 by 6 wall insulated with fiberglass with only 3% voids has a net yield of R10. The homes at Coppersmith Way in Townsend have 2 by 6 walls filled with high density cellulose insulation and 1 inch rigid insulation outside the sheathing for a thermal break and a true R28 wall! Combined with R45 ceiling, and R30 first floor, the homes are able to be kept toasty warm with a high end stainless steel water heater with a 10 year warranty. The air system are hydro air with a 14 SEER air conditioner with the environmentally friendly R410A refrigerant. The projected cooling load for the year is \$50.

 **CASE STUDY - Marla Circle, a FIVE STAR ENERGY HOME****ELECTRIC ENERGY FROM THE SUN (PHOTOVOLTAICS):**

All five homes in the Marla Circle had photovoltaic system producing electricity from the sun. Most of the new homes in Coppersmith Way development will have between 24 and 30 panels supplying about half to all of the electric needs of each household. In a time of rising energy prices and reliance fossil fuels, it is nice to know there are alternatives to choose from.

