

ZNE HOME INFO

TAYLOR, TEXAS

Atmos Energy is partnering with the Williamson County Habitat for Humanity to build a natural gas powered Zero Net Energy (ZNE) demonstration home in Taylor, Texas. This home showcases the reliability and affordability of natural gas while providing significant greenhouse gas emission reductions.



Mission

The mission for this Habitat for Humanity ZNE home demonstration project is to provide a deserving family with an energy-efficient and comfortable home that leverages natural gas and renewable energy to meet our low carbon energy goals while lowering energy bills.

About the Home

- 1,277 square feet
- 3 bedrooms
- 2 bathrooms
- 92 AFUE natural gas furnace
- .82 EF tankless natural gas water heater
- 16 SEER air conditioning system
- R-32 attic insulation; R-24 wall insulation
- U-value .32, SHGC .20 windows
- 7.2 kWh of solar photovoltaic panels

What is a Zero Net Energy home?

A ZNE home produces as much energy as the home consumes within a year, which results in net zero energy consumption and a carbon neutral home. This home has received a preliminary HERS index score of -15. This is achieved by installing high-efficiency natural gas heating, water heating, and air conditioning equipment, incorporating building envelope efficiency, and installing a rooftop photovoltaic solar system to make the home self-sufficient and environmentally responsible.

How does natural gas help achieve clean emissions goals?

This sustainably built and energy-efficiency home reduces greenhouse gas emissions by using a balanced energy approach. This ZNE home will include a rooftop photovoltaic solar system and high-efficiency natural gas appliances, in addition to top-rated insulation, windows, and home weatherization features.

What are the expected energy bills?

Preliminary energy reports for the design of this ZNE home estimates the average annual monthly energy bills for gas and electric will be less than \$75 per month.

About the Family

Ashley, a single working mother, has aspired to own a home for many years. However, continued health problems that began during her pregnancy caused that dream to be put on hold. Since 2018, she has endured 2 open heart surgeries and life-threatening complications that continue to this day which require help from her family to care for her 3-year-old daughter. This Habitat home will provide Ashley and her family security and comfort as she manages her health issues.



Partners



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