

Research Toward Zero Energy Homes

**Palm Harbor Homes – Tularosa – “Media Enhanced” Home
2009 International Home Builders’ Show
Las Vegas, NV**

Tularosa Statistics

- 2,939 (approximate) square feet - 4 bedrooms, 3 bath

Energy Efficiency & Renewable Energy Features

- High performance windows (U=0.31, SHGC=0.18)
- R-33 closed cell insulation at roof deck
- 14 SEER /8.5 HSPF split system heat pump
- Over 80% use of compact fluorescent lighting and LED (light emitting diodes) can light fixtures
- Met Builders’ Challenge Standards with an EnergySmart Home Scale (E-Scale) = 61

Indoor Air Quality & Noise Reduction Features

- VOC source control including zero VOC paint
- Outside air ventilation to be provided upon final set-up
- Duct system sealed with mastic and fiberglass mesh and performance tested
- Quiet exhaust fans

Other Green Building Features and Certifications

- Resource efficient modular construction
- Efficient construction waste management
- Meets Bronze level in all sections except lot design, preparation and development per the NAHB National Green Home Building program
- Elevator for handicap accessibility
- Durable, low maintenance design
- California Title 24 compliant
- Builder is Building America Partner and Builders Challenge Participant



“As built for show”



“Artist rendering”

More information at the house in the Professional Builder Show Village, Blue Lot or at booth N1373



Florida Solar Energy Center leads the Building America Industrialized Housing Partnership Consortium



Builders Challenge
Recognizing Energy Leadership in Homebuilding

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.

Research and Development of Buildings

Our nation's buildings consume more energy than any other sector of the U.S. economy, including transportation and industry. Fortunately, the opportunities to reduce building energy use—and the associated environmental impacts—are significant.

DOE's Building Technologies Program works to improve the energy efficiency of our nation's buildings through innovative new technologies and better building practices. The program focuses on two key areas:

- **Emerging Technologies**
Research and development of the next generation of energy-efficient components, materials, and equipment
- **Technology Integration**
Integration of new technologies with innovative building methods to optimize building performance and savings

For more information contact
EERE Information Center
1-877-EERE-INF (1-877-337-3463)
www.eere.energy.gov



U.S. Department of Energy
Energy Efficiency
and Renewable Energy

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Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable