Palm Harbor Homes – Bimini II – “Green” Home
2008 International Home Builders’ Show
Orlando, FL

Bimini II – “Green” Home Statistics
• 3,312 square feet, 3 bedroom, 3½ bath

Energy Efficiency and Renewable Energy Features
• Low-E double glazed, impact resistant vinyl windows
  (U=0.35, SHGC= 0.30)
• 17 SEER/9 HSPF heat pump (dual fuel) by Carrier with
  programmable thermostat
• Icynene spray foam insulation (walls = R13, roof = R21)
• Duct system performance tested
• ENERGY STAR® appliances
• 92% use of compact fluorescent lighting
• AllSolar domestic hot water system sponsored by
  SunBuilt Program with Rinnai tankless, gas back up
• Meets Builders Challenge Standards with an EnergySmart
  Home Scale (E-Scale) = 57

Indoor Air Quality and Noise Reduction Features
• VOC source control including zero VOC paint and use of 75% reduced
  VOC caulks and sealants by Henkel
• Outside air ventilation
• Central vacuum system by Beam
• Quiet exhaust fans
• Formaldehyde-free cabinets
• Duct system sealed with mastic and fiberglass mesh

Other Green Building Features and Certifications
• Resource efficient modular construction and construction waste management
• Water efficient appliances and fixtures
• Meets Gold level in all sections except lot design, preparation, and development
  per the new NAHB National Green Home Building program (nahbgreen.com)
• Certified Florida Green Home by the Florida Green Building Coalition
• Progress Energy Home Advantage Premium Energy Saver Program
• Built for 140 mph wind zone
• Builder is Building America Partner and Builders Challenge participant

More information at the house in the Professional Builder Show Village or
at booth #W3659
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 Launches Builders Challenge

The U.S. Department of Energy is scheduled to launch Builders Challenge, based on Building America high-performance home strategies, Thursday, February 14, 2008 at 3 PM in the Professional Builder Show Village during the International Builders’ Show in Orlando, Florida.

The Challenge — to build 220,000 high-performance homes by 2012. Leading builders will join senior DOE officials to “take the challenge” to build homes that are between 70 and 0 on the EnergySmart Home Scale (E-Scale). The E-Scale allows homebuyers to understand—at a glance—how the energy performance of a particular home compares with others.

Visit our Web sites at:

- [www.buildingamerica.gov](http://www.buildingamerica.gov)
- [www.pathnet.org](http://www.pathnet.org)
- [www.energystar.gov](http://www.energystar.gov)

Building America Program

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Building Industry Research Alliance (BIRA)

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Building Science Consortium (BSC)

Betsy Pettit • Building Science Consortium (BSC) • 70 Main Street • Westford, MA 01886 • 978-589-5100 • fax: 978-589-5103 • e-mail: Betsy@buildingscience.com • [www.buildingscience.com](http://www.buildingscience.com)

Consortium for Advanced Residential Buildings (CARB)

Steven Winter • Steven Winter Associates, Inc. • 50 Washington Street • Norwalk, CT 06854 • 203-857-0200 • fax: 203-852-0741 • e-mail: swinter@swinter.com • [www.carb-swa.com](http://www.carb-swa.com)

Davis Energy Group

David Springer • Davis Energy Group • 123 C Street • Davis, CA 95616 • 530-753-1100 • fax: 530-753-4125 • e-mail: springer@davisesenergy.com • deg@davisesenergy.com • [www.davisesenergy.com/index.html](http://www.davisesenergy.com/index.html)

IBACOS Consortium

Brad Oberg • IBACOS Consortium • 2214 Liberty Avenue • Pittsburgh, PA 15222 • 412-765-3664 • fax: 412-765-3738 • e-mail: boberg@ibacos.com • [www.ibacos.com](http://www.ibacos.com) • IBACOS provided technical support for TNAH ’08

Industrialized Housing Partnership (IHP)

Subrato Chandra • Florida Solar Energy Center • 1679 Clearlake Road • Cocoa, FL 32922 • 321-638-1412 • fax: 321-638-1439 • e-mail: subrato@fsec.ucf.edu • [www.baihp.org](http://www.baihp.org) • IHP provided technical and on-site support for PHH and TNAH ‘08

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Pacific Northwest National Laboratory

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Palm Harbor Homes (PHH)

Mike Draper • 605 S. Frontage Road • Plant City, FL 33563 • 813-752-1368 • fax: 813-752-7280 • e-mail: mdraper@palmharbor.com • [www.palmharbor.com](http://www.palmharbor.com) • PHH constructed the Bimini II “Green” and Glen Cairn “Comfortably Affordable” homes for the 2008 International Builders’ Show

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