“The biggest reward with DOE ZERH construction is creating something... that will be there for a long time for the good.” Dow Perry, owner, DP Construction

PROJECT DATA

• Layout: 3 bdrm, 2 bath, 1.5 fl, 1,664 ft²
• Climate: IECC 3A, hot-humid
• Completed: December 2015
• Category: custom for buyer

MODELED PERFORMANCE DATA

• HERS Index: without PV 57
• Projected Annual Energy Costs: without PV $995
• Projected Annual Energy Cost Savings: (vs home built to 2009 IECC) without PV $578
• Annual Energy Savings: without PV 8,096 kWh

KEY FEATURES

• Walls: R-22: 2x4 and 2x6, advanced framed, 3.5” open-cell spray foam in cavities, 1/2 OSB, house wrap, 2x2 batten rainscreen, 1” closed-cell soy spray foam over battens, metal and cypress siding.
• Roof: Cathedral ceilings with exposed pine decking. Full ice-and-water shield over decking, 1x4 purlins screwed over 6” PVC sleeves, 5.5” R-38.5, closed-cell soy spray foam over roof and walls.
• Attic: None.
• Foundation: Uninsulated monolithic slab-on-grade.
• Windows: Double-pane, low-e, argon-fill, SHGC=0.29, U=0.32.
• Air Sealing: 2.2 ACH 50.
• Ventilation: ERV.
• HVAC: Ductless heat pumps, two indoor, one outdoor unit, 21.7 SEER.
• Hot Water: Heat pump water heater.
• Lighting: 100% LED.
• Appliances: ENERGY STAR refrigerator, dishwasher, clothes washer, dryer.
• Solar: Pre-wired for solar.
• Water Conservation: All WaterSense faucets.
• Energy Management System: None.
• Other: Low-VOC paints and stains.

CONTACT

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For more information on the DOE Zero Energy Ready Home program, go to http://energy.gov/eere/buildings/zero-energy-ready-home or scan the QR code.