Thrive Home Builders
Hyland Village | Denver, CO | ThriveHomeBuilders.com

“Thrive Home Builders is a leader in the production of energy-efficient homes. Our Hyland Village project is a prime example of our commitment to sustainability. The energy usage is lower in the new house in contrast to my apartment. That’s pretty amazing.” Home owners

PROJECT DATA
• Layout: 4 bdrm, 3.5 bath, 2 fl + bsmt, 3,322 ft²
• Climate: IECC 5B, cold
• Completed: June 2015
• Category: production

MODELED PERFORMANCE DATA
• HERS Index: without PV 39, with PV 28
• Projected Annual Energy Costs: without PV $1,312, with PV $903
• Projected Annual Energy Cost Savings: (vs home built to 2009 IECC) without PV $1,404, with PV $1,644
• Annual Energy Savings: without PV 7,271 kWh, 416 therms, with PV 10,869 kWh, 416 therms

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KEY FEATURES
• Walls: Double walls, 2x4 24” oc staggered with space for 9.5” R-40 blown fiberglass. Sprayer-applied sealant, 5” OSB sheathing, house wrap, fiber cement and synthetic stone siding.
• Roof: Ice-and-water shield, waterproof underlayment, drip edge, asphalt shingles.
• Attic: Vented attic, R-50 blown fiberglass, 14” raised heel trusses, sprayer-applied sealant at all top plates.
• Foundation: Basements with R-19 perforated vinyl-faced drape insulation on interior of walls.
• Windows: ENERGY STAR double-pane, argon-filled, vinyl-framed, U=0.22, SHGC=0.25.
• Air Sealing: 2.62 ACH 50.
• Ventilation: Continuous exhaust fan.
• HVAC: Heat pump 16 SEER, 9.5 HSPF; gas furnace 97.4 AFUE.
• Hot Water: Tankless gas water heater .97 EF.
• Lighting: 100% CFL.
• Appliances: ENERGY STAR refrigerator, dishwasher.
• Solar: 3.64-kW solar PV.
• Water Conservation: WaterSense fixtures, drip irrigation.
• Energy Management System: Internet monitoring.
• Other: EPA Indoor airPLUS, low-VOC paints, low-formaldehyde wood products, fresh air intake, passive radon mitigation, fire sprinkler system.

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.