

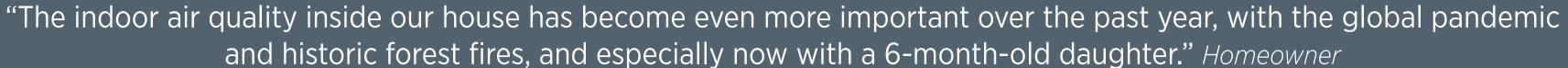
Thrive Home Builders

ZERO
ENERGY READY HOME

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PROJECT DATA

- **Layout:** 4 bdrm, 4.5 bath, 2 fls + bsmt, 3,934 ft²
- Climate: IECC 5B, coldCompleted: August 2020

• Category: Production

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 39; with PV 5
- Annual Energy Costs: without PV \$1,500; with PV \$200
- Annual Energy Cost Savings: (vs typical new homes) without PV \$2,200; with PV \$3,300
- Annual Energy Savings: without PV 19,700 kWh; with PV 31,100 kWh
- Savings in the First 30 Years: without PV \$88,300; with PV \$134,500

CONTACT

Bill Rectanus 614-204-9043 brectanus@thrivehomebuilders.com

KEY FEATURES

- Walls: Double wall, R-39 total: two 2x4 24" o.c. walls set 2.5" apart, advanced framed, 9.5" blown fiberglass, $\frac{7}{16}$ " OSB sheathing, drain wrap, engineered wood siding.
- Roof: Truss gable roof: 14" raised heel trusses, $\frac{7}{16}$ " roof sheathing, self-adhered membrane at eaves and valleys, 10-mil synthetic underlayment, 30-year asphalt shingles.
- Attic: Vented attic: 20" R-50 blown-in fiberglass, 14" raised energy trusses.
- **Foundation:** Basement: poured concrete; finished basement walls are 2x4 24" o.c. with R-15 fiberglass batts; unfinished walls have R-19 fiberglass drape. Active radon vent with fan in 4" aggregate under 6-mil slab vapor barrier.
- Windows: Double-pane, argon-filled, low-e, vinyl frame, U=0.24, SHGC=0.2.
- Air Sealing: 1.80 ACH50, closed-cell spray foam top plates and rim joists.
- Ventilation: Continuous exhaust paired with fresh air supply; temperature and humidity sensors on fresh air intake. MERV 7 filter on intake. MERV 13 filter on supply.
- HVAC: Central air-source heat pump, 3.24 COP, 17.8 SEER, AC variable speed compressor.
- Hot Water: Heat pump water heater, 3.55 UEF, 65-gal; recirculation pump.
- Lighting: 100% LED.
- Appliances: ENERGY STAR dishwasher, clothes washer, clothes dryer, induction cooktop.
- Solar: 7.8-kW rooftop panels, 10-kW battery storage.
- Water Conservation: Low-flow fixtures, PEX piping: hot-water recirc; smart irrigation.
- Energy Management System: Energy monitoring system, keypad camera.
- Other: Low/no-VOC paint, Green Label Plus carpet, KCMA-certified cabinetry, GreenGuard-certified hardwood flooring; prewired for EV charging.





