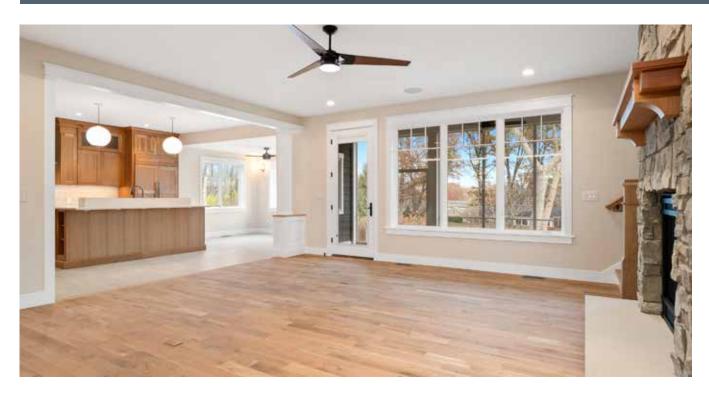


Stockell Custom Homes

Sunset Hills Custom Home | Sunset Hills, MO | Stockellhomes.com













PROJECT DATA

- **Layout:** 5 bdrm, 5 bath, 2 fl + bsmt, 7,629 ft²
- Climate: IECC 4A, mixed-humid
- Completed: December 2021
- Category: Custom for Buyer

MODELED PERFORMANCE DATA

- HERS Index: without PV 36; with PV 1
- Annual Energy Costs: without PV \$1,600; with PV \$450
- Annual Energy Cost Savings: (vs typical new homes) without PV \$2,900; with PV \$4,250
- Annual Energy Savings: without PV 36,100 kWh, 130 therms; with PV 52,800 kWh, 130 therms
- Savings in the First 30 Years: without PV \$141,200; with PV \$206,400

CONTACT

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KEY FEATURES

- Walls: 2x6, 16" o.c., R-24 total: advanced framed, R-23 blown fiberglass, R-3 insulated coated OSB sheathing with seams taped, vinyl and stone veneer siding.
- Roof: Shed truss roof: coated OSB, synthetic felt, architectural shingles or standing-seam metal roofing; continuous ridge vents.
- Attic: Vented attic, R-65 total: 2" open-cell spray-foam on attic floor, 22" blown fiberglass.
- Foundation: Insulated basement: 1.5" cc foam sprayed on interior behind 2x4 framed walls with R-13 batt. On exterior, spray-applied rubber waterproofing, dimpled plastic drainboard.
- Windows: Double-pane, argon-filled, vinyl-framed, low-e2; fixed and casement; fixed awnings and motorized blinds, U=0.25, SHGC=0.27.
- Air Sealing: 2.04 ACH50; sheathing taped at all seams. Sill and drywall gaskets.
- **Ventilation:** ERV with separate ducting to every room, MERV 13 filters. Dehumidifier. Dampered dedicated makeup air for range hood and dryer.
- HVAC: Two ground-source heat pumps, 22.2-24.8 EER, 3.9-4.4 COP.
- Hot Water: Ground source heat pump preheats water for two gas tankless water heaters.
- Lighting: 100% LED; daylight sensors, timers, controls, 3 solar tubes.
- Appliances: ENERGY STAR dishwasher, refrigerator.
- Solar: 18-kW rooftop panels, three 14-kW batteries for 42 kW total storage.
- Water Conservation: WaterSense fixtures; PEX piping; adaptive recirculation pump.
- Energy Management System: Wi-Fi energy monitoring system tracks PV production and usage of every appliance. Carbon emissions monitor. Smart thermostats.
- Other: Recycled-content concrete and roofing shingles. Electric vehicle charger installed.





