

Under the Sun Building and Remodeling

Easton Carriage House | Schaghicoke, NY | UndertheSunBuildgreen.com



"It's the most comfortable home I've ever lived in." Homeowners



PROJECT DATA

- Layout: 2 bdrm, 2 bath, 1 fl, 1,156 ft²
- Climate: IECC 5A, cold
- Completed: December 2021
- Category: Custom for Buyer

KEY FEATURES

- Walls: Double wall, R-53 total. Two 2x4 walls, 24" o.c., set 5.5" apart. Cavity filled with R-15+R-23+R-15 mineral wool batts. Coated OSB, 7/16" furring strips. Vinyl siding.
- **Roof:** Gable truss roof: 5%" coated OSB sheathing, self-adhered membrane at eaves and valleys, #30 felt; architectural shingles. Ridge vent and vented cupola at peak.
- Attic: Vented attic: $\frac{1}{2}''$ foil-faced polyisocyanurate foam board vents (R-3.2) and $1-\frac{1}{2}''$ x



MODELED PERFORMANCE DATA

- HERS Index: without PV 31
- Annual Energy Costs: without PV \$850
- Annual Energy Cost Savings: (vs typical new homes) without PV \$1,550
- **Annual Energy Savings:** without PV 8,750 kWh
- Savings in the First 30 Years: without PV \$63,550

CONTACT

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Energy Efficiency & Renewable Energy $1-\frac{1}{2}$ " furring as spacer, 20" R-70 blown-in cellulose above ceiling/plenum.

- Foundation: Slab on grade: frost-protected shallow slab sits on 12" compacted gravel, topped by 15-mil vapor/radon barrier, and 8" (R-38.4) Type IX EPS under slab and at slab edge, plus 24" tapered wing extending out from base of slab.
- Windows: Triple-pane; argon-filled; low-e; vinyl-framed; U=0.13; SHGC=0.22.
- Air Sealing: 0.69 ACH50. All openings taped; air-tight electric boxes.
- Ventilation: Two ERVs with MERV. 13 filters, boost settings; ultraviolet air cleaner.
- HVAC: Mini-split heat pump, 14 HSPF, 33 SEER, 1 indoor/1 outdoor unit. Five 1,000-W electric wall heaters for bedrooms, baths, garage; ERV has heat and cool modes.
- Hot Water: Heat pump, 45-gal, 3.75 UEF, Wi-Fi controlled.
- Lighting: 100% LED lighting with motion sensors and timers.
- Appliances: ENERGY STAR refrigerator, dishwasher, clothes washer, clothes dryer.
- Solar: 25-kW system on farm property.
- Water Conservation: Whole house is EPA WaterSense certified.
- Energy Management System: ERV app monitors IAQ.
- Other: Low/no VOC paints and finishes, recycled-content insulation, flooring, decking.



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.



Housing