Under the Sun Building and Remodeling
Easton Carriage House | Schaghticoke, NY | UndertheSunBuildgreen.com

CONTACT
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.

2022 WINNER

KEY FEATURES

• Roof: Gable truss roof: ⅛” coated OSB sheathing, self-adhered membrane at eaves and valleys, #30 felt; architectural shingles. Ridge vent and vented cupola at peak.
• Attic: Vented attic: ½” foil-faced polyisocyanurate foam board vents (R-3.2) and 1-½” x 1-½” 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.

PROJECT DATA

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

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