

# Energize Delaware's ZeMod Program and Beracah Homes



DESEU State Fair House | Lincoln, DE | ZeModDelaware.com











## PROJECT DATA

• **Layout:** 2 bdrm, 2 bath, 1 fl, 1,209 ft<sup>2</sup>

• Climate: IECC 4A, mixed-humid

Completed: July 2021

Category: Affordable

#### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 40; with PV 1
- Annual Energy Costs: without PV \$700; with PV \$200
- Annual Energy Cost Savings: (vs typical new homes) without PV \$1,050; with PV \$1,550
- Annual Energy Savings: without PV 7,450 kWh; with PV 14,350 kWh
- Savings in the First 30 Years: without PV \$42,050; with PV \$63,850

### CONTACT

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## KEY FEATURES

- Walls: Double wall, R-33.5 total: two 2x4 walls, 1" apart, dense-packed fiberglass; coated OSB; vinyl siding. Wall panels and house sections constructed in factory.
- Roof: Gabled rafter roof, 2x8 ceiling joists, coated OSB w/taped seams, asphalt shingles.
- Attic: Vented attic: R-50 of 7.25" of dense-pack fiberglass and 7.75" loose-fill fiberglass, 10" raised heel energy trusses.
- Foundation: Vented crawlspace: CMU walls. R-30 fiberglass batts in 2x10 floor joists.
- Windows: Double-pane, argon-filled, low-e, vinyl-framed, U=0.250, SHGC=0.18.
- Air Sealing: 1.5 ACH50, modular components are sealed together on site.
- Ventilation: Ducted conditioning EV with MERV 13 filters; 2.6 CFM/watt. Controls based on temperature, RH, CO<sub>2</sub>, and VOC sensors. Continuous or timered settings.
- HVAC: Ductless heat pump, 11 HSPF, 26 SEER, variable-speed compressor.
- Hot Water: Heat pump water heater, 50-gal, 2.78 EF.
- Lighting: 100% LED lighting, large windows.
- Appliances: ENERGY STAR refrigerator, dishwasher, clothes washer, clothes dryer.
- Solar: 5.12-kW rooftop panels.
- Water Conservation: EPA WaterSense-labeled fixtures.
- Energy Management System: Rooftop PV solar panels. Energy production and usage at specific end uses are monitored.
- Other: Low-emission cabinets, flooring, paint, counter tops, doors; hard floors minimize particulates. Modular construction.





