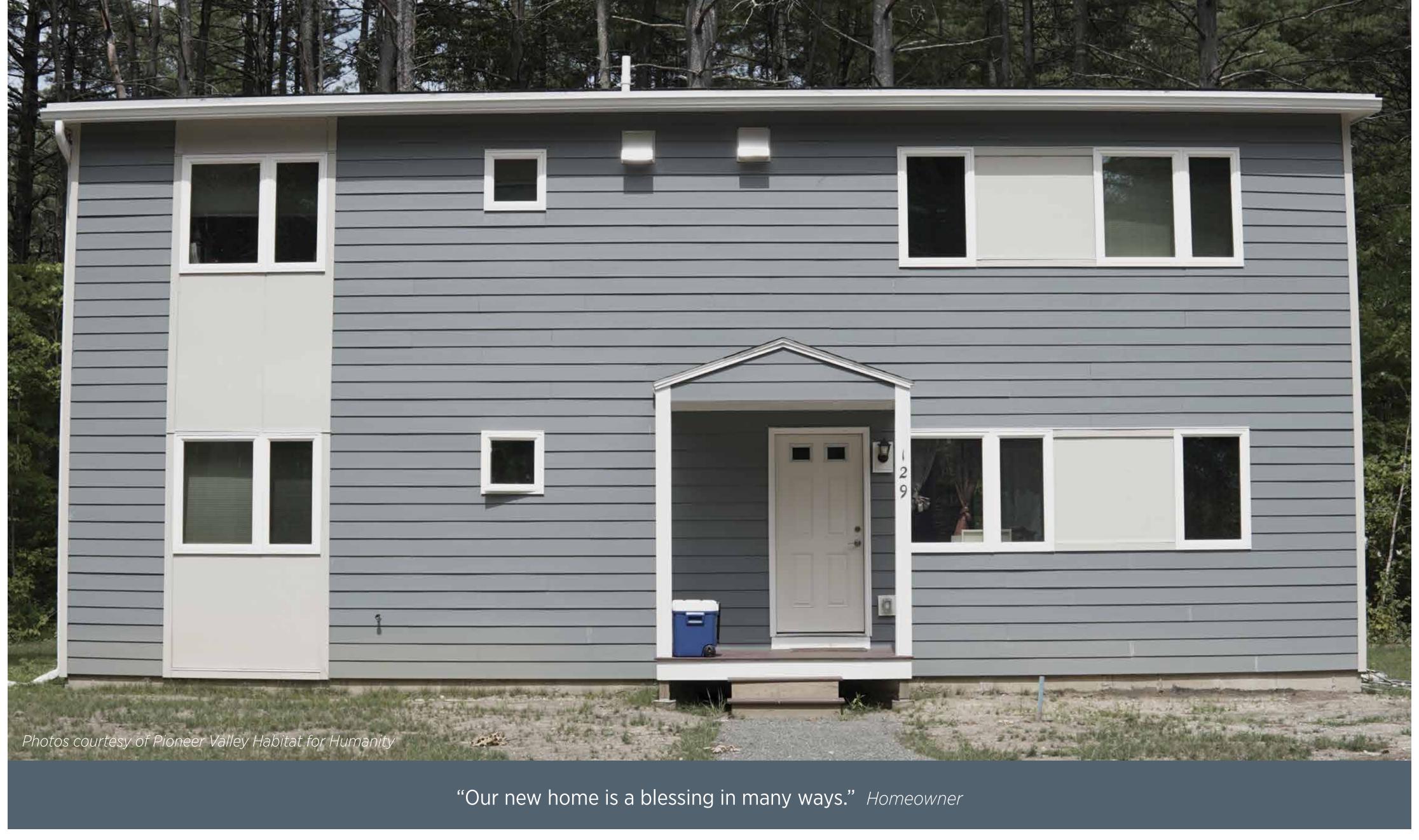


# Pioneer Valley Habitat for Humanity

Glendale Road Modular Homes | Florence, MA | PVHabitat.org

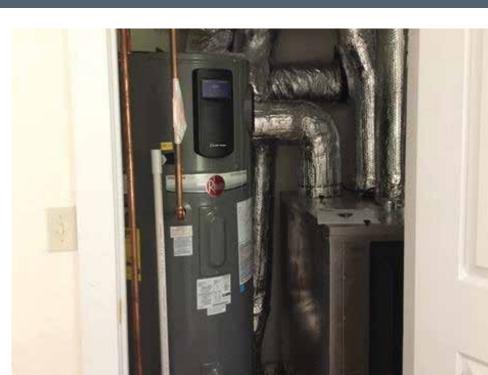












### PROJECT DATA

• **Layout:** 3 bdrm, 2 bath, 2 fls, 1,222 ft<sup>2</sup>

• Climate: IECC 5A, cold

• Completed: September 2019

• Category: Affordable

#### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 35; with PV -20
- Annual Energy Costs: without PV \$1,500; with PV \$100
- Annual Energy Cost Savings: (vs typical new homes) without PV \$3,250; with PV \$4,650
- Annual Energy Savings: without PV 6,400 kWh; with PV 15,800 kWh
- Savings in the First 30 Years: without PV \$136,300; with PV \$195,400

# CONTACT

Pioneer Valley Habitat 413-586-5430 info@pvhabitat.org

## **KEY FEATURES**

- Walls: Modular, double wall, R-43 total: double stud walls 2x4 24" o.c., dense-packed cellulose.
- Roof: SIP shed roof: vapor barrier primer on interior, 12" SIP, EPDM rubber roofing membrane.
- Attic: No attic.
- Foundation: Unvented crawlspace, 12-mil poly.
- Windows: Triple-pane, low-e3, vinyl double-hung frame, U=0.20, SHGC=0.19.
- Air Sealing: 0.56 ACH 50.
- **Ventilation:** ERV, ducted, monitors CO<sub>2</sub>, VOCs, indoor/outdoor temps, and humidity. MERV 13 filters.
- HVAC: Ductless air source heat pump, 11.5 HSPF, 26.1 SEER, 1 indoor air handler, 1 outdoor compressor. CERV ventilation system also provides some heat pump heating and cooling.
- Hot Water: Heat pump water heater in upstairs utility closet, 3.55 EF, 40-gal.
- Lighting: 100% LED.
- **Appliances:** ENERGY STAR refrigerator, microwave, range hood, clothes washer, and dishwasher.
- Solar: 9 kW rooftop panels.
- Water Conservation: Low-flow plumbing fixtures.
- Energy Management System: PV tracking, indoor air quality monitoring.
- Other: Low-VOC finishes on floors, doors, cabinets, paints, demand-controlled ventilation.





