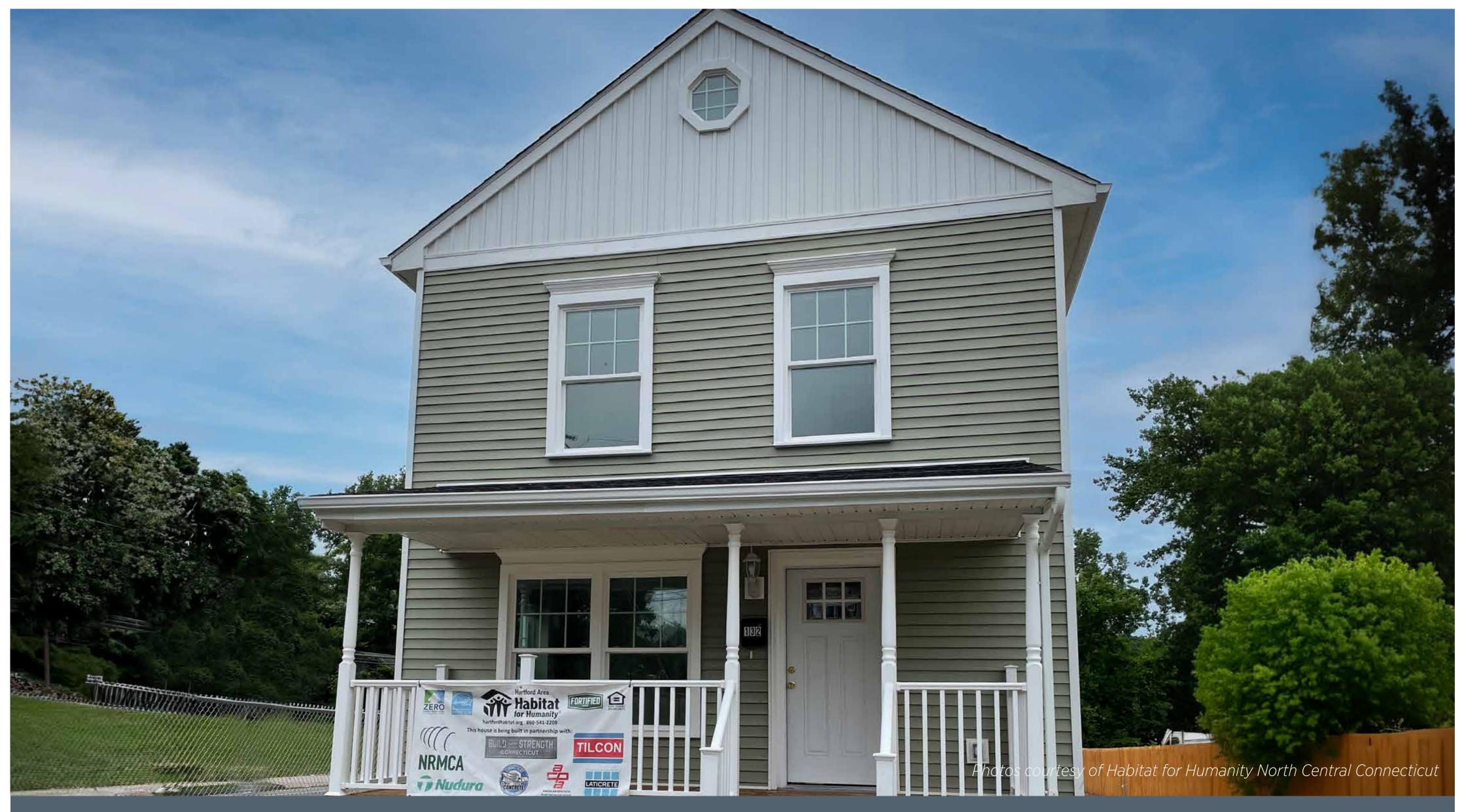


# Habitat for Humanity North Central Connecticut

Cleveland Avenue Home | Hartford, CT | Habitat.org/ct/hartford/north-central-connecticut-habitat-humanity





"To have a home ... that gives my son and I a safe and healthy place to live... and to know I can afford to pay my bills is a true blessing." Homeowner









### PROJECT DATA

• Layout: 3 bdrm, 1.5 baths, 2 fls + bsmt, 1,396 ft<sup>2</sup>

• Climate: IECC 5A, cold • Completed: August 2022 • Category: Affordable

#### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 34
- Annual Energy Costs: without PV \$1,700
- Annual Energy Cost Savings: (VS typical new homes) without PV \$2,150
- Annual Energy Savings: without PV 10,300 kWh
- Savings in the First 30 Years: without PV \$90,250

# CONTACT

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## KEY FEATURES

- Walls: ICF. R-25 total: 11.25", vinyl siding with integrated 0.5" R-0.61 EPS.
- Roof: Gable truss roof, IBHS Fortified, ½" coated OSB sheathing with seams taped, two rows adhered membrane at eaves, drip edge, architectural asphalt shingles. Roof trusses engineered for heavy snow load and solar panels.
- Attic: Vented, R-60 total: 17" blown cellulose, 14" raised-heel trusses.
- Foundation: Insulated basement, R-27.14 total: 11.25" R-24 ICF walls, spray-applied waterproofing membrane; <sup>3</sup>/<sub>4</sub>" R-3.1 insulated drain board, <sup>1</sup>/<sub>4</sub>" parging. Passive radon mitigation system installed with wiring in place for future fan if needed.
- Windows: Triple-pane, U=0.22, SHGC=0.23, low-e, argon fill, vinyl-framed, double-hung.
- Air Sealing: 1.48 ACH 50, ICF walls, all penetrations taped or foam sealed.
- Ventilation: ERV, 50 cfm continuous, MERV 8 or 13 filters. SRE 75%; ASRE 75%; ATRE 40%.
- HVAC: Ductless minisplit air-source heat pump; 14 HSPF, 33 SEER, 2 indoor air handlers, 1 outdoor compressor. Variable speed compressor. 14.0 Btu. Transfer fans over bedroom doors pull conditioned air into room when door is closed.
- Hot Water: Heat pump water heater, 50-gallons, COP 3.45. Compact plumbing distribution.
- Lighting and Appliances: LED lighting; ENERGY STAR appliances, all electric.
- Solar: No PV installed. Solar ready: conduit to roof, ample electric panel space, and roof orientation to maximize future solar.
- Energy Management System: None.
- Other: All electric, EV charging pedestal.





