K. Hovnanian

The Oaks at Glenwood | Old Bridge, NJ | Khov.com

ZERO ENERGY READY HOME
U.S. DEPARTMENT OF ENERGY

U.S. DOE ZERO ENERGY READY HOME 2022 WINNER Housing Innovation Awards

Photos courtesy of K. Hovnanian Homes

"The temperature at the house stays set to what we want, even on hot days." *Homeowner*

PROJECT DATA

- **Layout:** 5 bdrm, 3 bath, 2 fl, 2,999 ft²
- **Climate:** IECC 4A, mixed-humid
- **Completed:** March 2022
- **Category:** Production

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 45
- **Annual Energy Costs:** without PV $1,900
- **Annual Energy Cost Savings:** (vs typical new homes) without PV $850
- **Annual Energy Savings:** without PV 2,050 kWh, 530 therms
- **Savings in the First 30 Years:** without PV $40,800

KEY FEATURES

- **Walls:** 2x6, 16″ o.c., R-19 total: 5.5″ R-19 fiberglass batt; 7⁄16″ OSB sheathing, house wrap; vinyl siding. Advanced framing: 2-ft stud spacing, 3-stud corners, insulated headers, ladder blocking at interior wall intersections.
- **Roof:** Truss gable roof, 7⁄16″ OSB, synthetic felt, asphalt shingles.
- **Attic:** Vented attic, 17″ R-49 blown fiberglass; 10″ raised heel trusses.
- **Foundation:** Conditioned basement: 2x4 24″ o.c. studs, R-13 fiberglass batt, 1″ rigid EPS. insulation; dimpled plastic drain mat.
- **Windows:** Double-pane, low-e, argon-filled, vinyl-framed, single-hung; U=0.30, SHGC=0.28.
- **Air Sealing:** 2.82 ACH50. All joints, seams, and penetrations sealed.
- **Ventilation:** Central fan-integrated supply ventilation, MERV 8 filter.
- **HVAC:** Gas furnace, 2-stage, 96.1 AFUE. A/C 14.5 SEER; compact duct design.
- **Hot Water:** Tankless propane water heater, 0.97 EF.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR clothes washer and dishwasher.
- **Solar:** None.
- **Water Conservation:** EPA WaterSense fixtures. Moisture-sensing irrigation.
- **Energy Management System:** Programmable thermostat.
- **Other:** Low-VOC paints and finishes; recycled content flooring. EV charger.

CONTACT

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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.

Building America U.S. Department of Energy

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