Dwell Development
Genesee Park Net Zero | Seattle, WA | DwellDevelopment.com

"The ultimate goal is always net zero." Dwell Development

PROJECT DATA

• Layout: 4 bdrm, 4 bath, 2 fl, 3,700 ft²
• Climate: IECC 4C, marine
• Completed: July 2017
• Category: custom spec

MODELED PERFORMANCE DATA

• HERS Index: without PV 35; with PV 0
• Annual Energy Costs: without PV $1,000; with PV $10
• Annual Energy Cost Savings: (vs typical new homes) without PV $1,600; with PV $2,550
• Annual Energy Savings: without PV 15,800 kWh; with PV 25,600 kWh
• Savings in the First 30 Years: $112,300

KEY FEATURES

• Walls: Double 2x4 stud wall, 12" cavity dense-packed with R-44 cellulose, ½" plywood sheathing, fluid-applied weather-resistant barrier, fiber cement and white oak siding.
• Roof: Roof sheathing topped with 3" rigid foam, ½" hard board, and TPO roof membrane.
• Attic: Unvented, vaulted ceiling with R-67 dense-packed fiberglass.
• Foundation: R-20 EPS under heated slab.
• Windows: Triple-pane, low-e, argon-filled, vinyl frames, tilt-and-turn, U=0.19 average, SHGC=0.30 average.
• Air Sealing: 1.0 ACH 50.
• Ventilation: Fully ducted HRV.
• HVAC: Air-to-water heat pump, radiant floor heating, COP 3.92.
• Hot Water: Passive solar thermal hot water system with electric tankless backup.
• Lighting: 100% LED.
• Appliances: All ENERGY STAR.
• Solar: 9.9-kW PV system, evacuated tube solar thermal for domestic hot water, 100-gallon tank.
• Water Conservation: EPA WaterSense fixtures and toilets.
• Energy Management System: Smart energy management system to manage heating, cooling, hot water, HRV, lighting, security, etc.
• Other: Two electric car charging stations; auxiliary power on solar inverter for power outages.

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.