



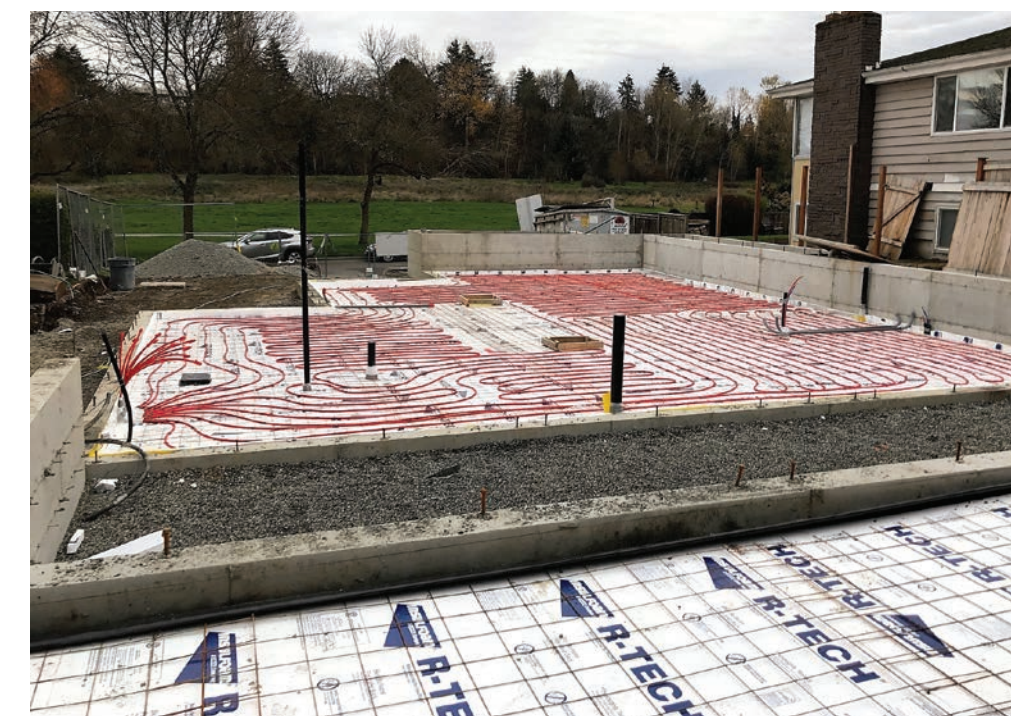
# Dwell Development

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



Photos courtesy of Dwell Development, LLC

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



## PROJECT DATA

- **Layout:** 4 bdrm, 4 bath, 2 fl, 3,700 ft<sup>2</sup>
- **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, 1/2" plywood sheathing, fluid-applied weather-resistive barrier, fiber cement and white oak siding.
- **Roof:** Roof sheathing topped with 3" rigid foam, 1/4" 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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