After purchasing an aging house with spectacular views of Washington’s Skagit Bay, the Johnsons contracted Clifton View Homes to conduct a complete remodel, making their home more energy-efficient in the process. The builder installed 9-foot-tall retrofit insulated panels over the exterior walls and rim joist, establishing a complete air barrier. Along with additional attic insulation, floor insulation and new windows, retrofit insulated panels helped cut energy use by a staggering 64 percent.

**Energy-Efficient Features**
- R-14 retrofit insulated wall panels, R-11 cavity insulation
- R-38 attic insulation (total)
- R-30 floor insulation (total)
- Low-E, U-0.28 windows
- Whole-house air sealing
- Two ductless mini-split air source heat pump, 9.0 HSPF
- 0.91 EF electric water heating
- New ENERGY STAR appliances

**Retrofit detail**

**Deep Energy Retrofit with Retrofit Insulated Panels**

- **Location:** Oak Harbor, WA
- **Size:** 2,908 sq. ft.
- **Builder:** CVH, Inc., DBA Clifton View Homes
- **Retrofit Panel Provider:** Premier SIPs
- **Total Reduction in Energy Use:** 64%
- **HERS Index:** 74
- **Energy savings per year:** $3,060
- **Air infiltration before:** 15.3 ACH50
- **Air infiltration after:** 5.25 ACH50