



FACT SHEET

Issaquah Fire Station 72

Overview

Issaquah Fire Station 72

Energy Use Index:

22.3 kBtu/ft² per year

Greenhouse gas savings:

68 metric tonnes of CO₂ per year

Project Summary: The City of Issaquah and Eastside Fire & Rescue designed and built Fire Station 72 to high performance standards, garnering a LEED® Platinum certification and demonstrating state-of-the-art sustainable building methods, materials and equipment, including a ground source heat pump, super-insulation, energy recovery ventilation and solar water heating and electricity generation.

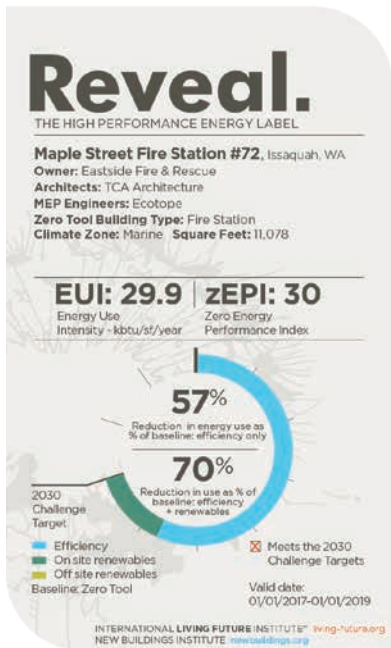
Results: Fire Station 72 has an Energy Use Index (EUI) of 22.3 kBtu/ft²-yr including a 30kW photovoltaic array on site. CO₂ emissions were avoided to the tune of 150,000 lbs (680 kg) annually.

Detailed Description: The design process of Fire Station 72 required collaboration with multiple stakeholders to ensure energy efficiency goals were met while also meeting the unique 24/7/365 needs of the firefighters occupying the building.

The building was designed to achieve the Architecture 2030 Challenge of Net Zero energy use by the year 2030.

In addition to the energy and water savings, 90% of construction waste was recycled, and low-VOC finishes were used throughout the station.

This project supports the Joint County – City Climate Commitments by contributing to the carbon reduction goals through utilization of non-fossil-fuel energy sources and innovative design to reach deep energy efficiency targets in a prominent, specialized community building.



Fire Station 72 in Issaquah uses 70% less energy than typical fire stations in the Northwest.



Through focused, coordinated action, we will maximize the impact of our individual and shared efforts.