



From left, Anita Clever, KPUD, Terry Beckwith, Underwood Fruit and Warehouse Co., and Christian Minor, Energy Smart Industrial Program, hold a check for rebates earned through KPUD programs.

KPUD Industrial Incentives

By Anita Clever

Klickitat PUD offers its industrial customers options to achieve cost-effective energy savings through the Energy Services rebate program.

KPUD provides a comprehensive suite of programs targeting a diverse landscape of project types, sizes and technologies.

To drive energy savings in the industrial sector, KPUD offers support—through its association with Bonneville Power Administration—for custom energy-efficient projects, including large retrofits and new construction.

These projects provide long-term economic benefits through avoided energy costs and nonenergy benefits.

KPUD works with its BPA Energy Smart Industrial Program partners to provide facility assessments, perform reviews of baseline equipment and energy consumption, and create a prioritized list of improvements. This list includes a general estimate of possible savings and implementation costs.

After the facility assessment, a project assessment identifies the information needed to develop a custom project, including investment-grade analysis of potential energy savings, vendor bids, a measurement and verification plan, and other materials.

Once completed, a final report will verify the energy savings and project costs, and determine the final incentives values for payment. ■

Underwood Fruit and Warehouse Company

Klickitat PUD and Underwood Fruit and Warehouse Co. collaborated to identify all possible energy saving options throughout their new building in Bingen.



The Underwood Fruit and Warehouse Co. building in Bingen.

Company Profile

Underwood Fruit and Warehouse Co. is an apple, pear and cherry packer and shipper for the majority of the growers in the Columbia River Gorge area. The company also owns and operates its own orchards in the region.

Underwood Fruit and Warehouse was formed in the early 1900s to supply local farms with production and packing materials and to provide a railroad shipping point for moving products east.

Locations in Washington

- ▶ Corporate Office: Yakima
- ▶ Packing Facility: Bingen
- ▶ Mt. Adams Orchard: White Salmon
- ▶ The Dalles Fruit Co.: Dallesport
- ▶ Alderdale Orchards: Alderdale

To learn more visit:
www.underwoodfruit.com



Underwood Project Milestones

Bingen facility fire: October 2017

The catastrophic Bingen Fire destroyed the pear packing operation.

New construction began: December 2018

The new construction included updated state-of-the-art technology.

Project completion: September 2020

Included an automated "shuttle to fetch pallet" system, new offices and employee areas.

Rebate verification completion: January 2021

Resulted in an estimated 1,185,000 kWh of annual energy savings.

Klickitat PUD Industrial Rebates Completed

Increased Condenser Capacity.

New condensers save energy by reducing the condensing pressure.

Efficient Evaporators.

Evaporators with larger-than-standard surface area provide the same cooling using less power.

Condenser Fan Variable Frequency Drive.

The new condenser fan VFD improves condenser fan efficiency versus fan cycling.

Evaporator Fan VFDs.

New evaporator fan VFD allows fan speeds to be reduced when target room temperature is achieved.

Air Compressor VFDs.

Reduces compressor power during part load operation.