



Trident Seafoods processing facility in Anacortes, WA. Credit: William Wright

# Industrial Systems Optimization Program

## Case study: Trident Seafoods

PSE's Industrial Systems Optimization program (ISOP) identifies low- and no-cost changes that can be implemented at your business site to save energy. Start tuning your industrial systems with PSE's free engineering support today.

### Small solutions add up to big savings

Since its founding more than 40 years ago, Trident Seafoods has become the largest seafood company in the United States. Built in 1989, Trident's processing and cold storage facility in Anacortes produces millions of pounds of finished product annually. Trident is constantly innovating to reduce their environmental impact and works hand-in-hand with PSE to lower their energy use.

*"Over the years we've increased production by 25 percent while our electric bills have remained close to the same. PSE has been a big part of that accomplishment."*

- Jeff Johnson, Trident Seafoods Facilities Manager

Their latest venture with PSE resulted in annual savings of 797,000 kilowatt-hours (kWh) and more than \$51,000 in utility costs.

### Project highlights and savings

In 2019, PSE worked with Trident to investigate their building's equipment and processes, identifying low- and no-cost opportunities for energy reduction, including:

- Adjusting set points and fixing leaks in compressed air and refrigeration systems.
- Adjusting the operation of exhaust and dust collection fans throughout the facility.
- Implementing sequencing controls for their hydraulic pumps.
- Reducing time delays on occupancy sensors to keep the lights from running with no one present.

<b>Project cost</b>	<b>ISOP grant</b>
\$28,208.63	\$28,208.63
<b>Energy savings</b>	<b>Energy cost savings</b>
797,000 kWh/year	\$51,092

These small projects added up to an overall energy reduction of 7 percent at the processing facility, and nearly all project costs were covered by PSE's grant for participating in ISOP.

After completing the program, Trident continued investing in personnel training to ensure that all energy efficiency improvements are maintained. According to Trident's Environmental Specialist Casey Fee, "This [training] ensures that all ISOP energy efficiencies continue to be taken advantage of for years to come, and helps create an atmosphere where future PSE initiatives can be easily implemented."

While COVID-19 has changed the landscape of production, Trident remains committed to optimizing their energy usage and looks forward to continued savings in the future.

*"Jeff, the facilities manager, has been a tireless energy efficiency proponent and now is called to other Trident plants to advise. Trident has received regional recognition for their energy efficiency efforts."*

- Steve Ottenbreit, PSE Energy Management Engineer