



By installing new LED fixtures with Luminaire Level Lighting Controls throughout Enumclaw High School, the school district trimmed \$8,000 from its annual energy bill. Photo: Benjamin Benschneider

Enumclaw School District earns \$35k incentive for adding lighting controls

A case study of PSE's Business Lighting Incentive Program

Customer background

Enumclaw School District (ESD) serves more than 4,000 K–12 students at 10 schools in the Washington communities of Enumclaw and Black Diamond. The district's only high school completed a three-year renovation project in 2019.

Energy challenges and opportunities

A central piece of the \$68 million renovation project was to bring greater energy efficiency and modern design to Enumclaw High School, which serves more than 1,700 students and staff.

When it came to energy-efficient lighting, ESD knew it had to meet the school's varied lighting needs, from offices to classrooms to science labs, with a customizable system that matched the modernized campus. Their solution was replacing older fluorescent lamps with LEDs equipped with Luminaire Level Lighting Controls (LLLCs).

Energy savings at a glance



ELECTRIC SAVINGS

88,759 kWh

That's enough to power 7 homes for a year.



PSE INCENTIVES PAID

\$35,889



ENERGY COST SAVINGS

\$8,450

Energy and cost savings are annual.

“The largest benefit is, of course, the energy savings. But the improved light quality and ability to tailor lighting levels to occupants' needs is a huge plus.”

Peter French
Facilities manager for Enumclaw School District

How PSE helped

ESD's facility managers were drawn to LLLCs after learning about their energy-saving potential and the fact that our Business Lighting Incentive Program offers generous incentives for adding lighting controls. We worked with ESD's distributor, Pacific Lamp & Supply Company, to calculate energy savings and incentive amounts.

With embedded sensors in each LED fixture, LLLCs offer innovative controls strategies that provide maximum energy savings, easy installation and maintenance, and flexibility in space utilization. The sensors that ESD chose provided out-of-the-box wireless programming capabilities, which made installation and commissioning simple.

For this project, a crew of three Enumclaw facilities employees installed the new LLC system over a three-week period. One person stripped the old fixtures and installed the new retrofit, while the others handled packaging and disposal of old troffers. The team then worked with a local distributor to quickly program and commission the project.

Results

ESD saw an annual energy cost savings of more than \$8,000 following the installation and programming of its LLC system. They also received a \$35,800 PSE incentive, which offset the district's total project cost.

The school district has now installed LLCs in at least five other buildings. In addition to energy savings and reduced maintenance, the level of customization that comes with LLCs has been an added benefit, along with improved light quality. Teachers and staff get the exact lighting they want at the touch of a button, and without any of the "flickering" associated with the old fluorescent lamps.

Start your energy-management journey

Learn more about PSE's Business Lighting Incentive Program at pse.com/businesslighting. Or get in touch with the program directly at businesslighting@pse.com.

"To set up the controls, you just walk around with a tablet and program the fixtures. We can easily adjust settings to meet the needs of occupants. It's very simple, no control wiring involved, and our in-house crew can easily handle it."

Peter French

Facilities manager for Enumclaw School District



Occupancy and daylight sensors on LLCs make them ideal options for tailoring lighting to the needs of a space for maximum energy savings. *Photo: Benjamin Benschneider*

"Some of the spaces with the new fixtures are offices like counseling centers, for example, where we are able to tune the light level to what occupants want. Most are choosing less light, resulting in even more energy savings."

Peter French

Facilities manager for Enumclaw School District



The LLC system at ESD worked seamlessly with Enumclaw High School's new modern construction, as well as varied lighting needs across multiple types of spaces. *Photo: Benjamin Benschneider*



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