Starting this June, the City of Pendleton is converting over 1,000 existing public street lights to energy efficient, light-emitting diode (LED) fixtures to reduce the City’s energy costs, reduce maintenance, and reduce carbon emissions. The project is part of the City Council’s strategic goal #1 to seek out more sustainable infrastructure funding for buildings, roads, and utilities. This project is also budget-neutral to the City! The energy savings fully funds the project, costing zero taxpayer/ratepayer dollars and uses zero up-front capital.

**For Project Completion Status click on the link below:**

<https://experience.arcgis.com/experience/5eb1dd358cf7459ca57332d2f705b564>

**Work Activity/ Schedule**

The project replaces existing High Pressure Sodium streetlight fixtures on public streets with new LED fixtures. The project does not add new or remove old streetlight poles, it is just updating the existing fixtures. Work is being coordinated through Ameresco, the City’s energy services contractor, and the fixtures will be installed by their subcontractor DJ’s Electrical. Multiple crews are estimated to complete 30 – 40 fixture conversions per day, taking 20 to 30 minutes per light. Work will be performed in a moving operation that may require temporary traffic lane restrictions. While crews are working, the sidewalk, bike lane, or curbside parking spaces located adjacent to the work site will be temporarily restricted and in limited cases lane closures may occur. The crews do not typically need to turn off the power to perform the work.

The conversion work is scheduled from June to August 2022. Work activity will take place during weekdays and may include weekends and nights. Work hours will generally be 7 AM to 7 PM, targeting late evening hours for arterial and collector streets.

**Cost Savings**

Installation of LED fixtures can reduce streetlight energy consumption by more than 50 percent. The city estimates it will achieve a total energy savings of nearly 500,000 kilowatt-hours annually and reduce carbon emissions by 310 tons per year. Additionally, maintenance costs are reduced because LED fixtures do not have disposable components requiring regular replacement like the existing high pressure sodium bulbs.

**Project Background**

The streetlight conversion is a strategic energy management project for the City because of the well demonstrated energy savings of LED over high-pressure sodium lights. In addition to energy savings, converting to LED lights provides improved illumination enhancing safety and increased reliability and life cycle requiring far less maintenance.

The City and Ameresco worked with Pacific Power & Light to develop a new City standard for full-cutoff, 3,000 Kelvin correlated (warm-white) color temperature (CCT) LED fixtures as part of this project. A light’s CCT (rated from 1,000 to 10,000 Kelvin) helps to classify the look of the light produced. The 3,000 Kelvin CCT selected by the City provides energy savings similar to “whiter” light LED technologies, minimizes light pollution, provides lighting quality superior to existing high pressure sodium lights for street safety is typically received as more pleasant than higher CCT lights, and was deemed the best option of the available technologies. The new LED lights may appear brighter and more white or blue in color compared to the existing yellow, 2200 Kelvin CCT, high pressure sodium lights; however, they produce less than half the lumens.

**Stay Informed**

For more information about the City’s LED Streetlight Conversion project, visit the <https://pendleton.or.us/projects> and check out the project’s Frequently Asked Questions. If you have questions or comments, please email the project at PendletonLEDStreetlights@gmail.com or contact the Public Works Department at (541)-966-0202.