

LED STREET LIGHT CONVERSION *FACT SHEET*

PROJECT OVERVIEW

Starting this July the City of Bend is converting over 2,000 existing public street lights to 3,000 Kelvin energy efficient, light-emitting diode (LED) fixtures to reduce the City's energy costs, maintenance costs and greenhouse gas emissions. The project is one of several [Strategic Energy Management](#) projects happening in 2019-2021 to help achieve the [City Council Climate Action Goals](#).

The project replaces existing High Pressure Sodium street light fixtures on public streets with new LED fixtures. The project does not add new or remove old street light poles, it is just updating the existing fixtures. Work is being coordinated through Ameresco, the City's Energy Management contractor, and the fixtures will be installed by their subcontractors NW Edison and Christensen Electric.

PROJECT SCHEDULE

The LED conversion project is scheduled from July to December 2019. Work activity will take place during weekdays and may include weekends. Work hours will generally be 7 a.m. to 7 p.m., targeting evening hours for arterial and collector streets.

Multiple crews will be working to complete an estimated 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.

COST SAVINGS

Installation of LED fixtures reduce street light energy consumption measured in watts by more than 50 percent since it takes less energy to provide a similar amount of brightness (or lumens). The City estimates it will achieve a total energy savings of nearly one-million kilowatt-



hours annually and reduce greenhouse gas emissions by 619 tons per year. Additionally, maintenance costs are reduced because LED fixtures do not have disposable components requiring regular replacement like existing high pressure sodium bulbs.

PROJECT BACKGROUND

The streetlight conversion is one of the first City Strategic Energy Management projects 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 area electric utilities to develop a new City standard for full-cutoff, 3,000 Kelvin correlate color temperature (CCT) LED fixtures as part of this project. A light bulb's CCT (rated from 1,000 to 10,000 Kelvin) helps classify the look of the light produced. The 3,000 Kelvin CCT selected by the City provides energy savings, minimizes light pollution, and improves lighting quality for street safety over the existing high pressure sodium lights. Although they emit over fifty percent less light, the new LED fixtures use a uniformly dispersed warm white color and may appear brighter compared to the existing yellow, unevenly dispersed high pressure sodium lights.

STAY INFORMED

For more information about the City's LED Street Light Conversion project, visit the project website and check out the project's [Frequently Asked Questions](#). If you have questions or comments, please email the project at LEDStreetlights@bendoregon.gov or call the Streets Department at (541) 317-3000, ext. 3.



Accommodation Information for People with Disabilities

To obtain this information in an alternate format such as Braille, large print, electronic formats, etc. please contact Joshua Romero at jromero@bendoregon.gov or (541) 693-2185.

