



San Bruno LED Streetlight Conversion Project Frequently Asked Questions

1. *What kind of streetlights does the City of San Bruno currently have?*

The City currently uses High Pressure Sodium (HPS) streetlights. While the most common streetlight technology in most cities across the country, HPS streetlights are not very energy efficient, cast an orange light under which it is difficult to see color, and tend to produce light that is not of optimal quality. Recently, the City converted some HPS lights to Light Emitting Diode (LED) fixtures. These efforts resulted in energy savings and the City is now proceeding with converting the remaining HPS fixtures to LED fixtures.

2. *What are LED streetlights?*

LEDs are a technology that has been used in solid state lighting for decades. More recently, LED technology has advanced to streetlight applications. LED streetlights are extremely energy efficient, have long life spans, and produce better color and light quality than typical HPS) streetlights.

3. *What color of light are LED streetlight fixtures?*

Contrary to the orange light that HPS fixtures produce, LED streetlight fixtures are a cooler, white light under which it is easier to see true colors.

4. *Why do the new LED fixtures appear to be dimmer?*

Although the new LED fixtures may appear to be dimmer, they are actually not dimmer than the HPS fixtures they replaced. Whereas the HPS fixtures would typically pool the light underneath the fixture, the new LED fixtures are more efficient at delivery and produce an even disbursement of light.

5. *Why is the City of San Bruno doing an LED streetlight conversion project?*

The City is interested in reducing its energy consumption and maintenance costs associated with streetlighting. Installing LED streetlight fixtures will save energy, require less maintenance, and will provide citizens with better light quality on streets and roadways.

6. *How many streetlights is the City of San Bruno replacing with the LED streetlight conversion project?*

This project will replace approximately 2,100 streetlights throughout the City of San Bruno.

7. *How is the City of San Bruno paying for the LED streetlight conversion project?*

Funding for this project will come from the City's Capital Reserve Fund. The City will pay back the initial amount through annual energy savings.

8. *How much will the City of San Bruno likely save when it upgrades to LED streetlight fixtures?*

The project is expected to save approximately 527,281 kilowatt hours, and more than \$100,000 in annual energy costs to the City. Additionally, the project will save approximately 276,000 pounds of carbon dioxide emissions annually, which (according to the Environmental Protection Agency) is equivalent to preventing 14,087 gallons of gas from being consumed per year.

9. *Which of the City's streetlights will be converted to LED fixtures?*

Cobra Head and decorative streetlights located throughout the City will be converted to LED fixtures through this project.

10. *How long will the project last?*

The project began in the Summer of 2015 with an audit that provided precise locations and characteristics of existing City-owned streetlights. The project is now commencing the installation phase of the new, energy efficient LED streetlight fixtures, which will be completed in the Fall of 2015.

11. *What are the benefits of the LED streetlight fixture project?*

The benefits of this project to the City of San Bruno include:

- Reduced energy consumption resulting in energy savings and reduced Greenhouse Gas emissions
- Reduced maintenance costs
- Better visible light for San Bruno citizens
- Standardized LED fixtures throughout the City

12. *What is the City doing with all of the streetlights it is removing?*

The existing High Pressure Sodium (HPS) streetlights will be removed and recycled.

13. *What if I have a streetlight outage in my neighborhood before the new LED fixtures are installed?*

If you are currently experiencing a streetlight outage, please report the problem description and pole number to: William Li, Management Analyst, at (650) 616-7065 or use the 'Report a Problem' feature on the City's website. The City will attempt to expedite the LED fixture installations in areas where there are known outages.

14. *Who is the contact for additional questions about the LED Streetlight Conversion Project?*

For more information about the project, please contact: William Li, Management Analyst, at (650) 616-7065.

15. *The new LED light is too bright. Can the LEDs be adjusted?*

Please note that the new LED streetlight fixtures function differently than the previous HPS fixtures, in that they provide a whiter, more efficient light. As such, they can initially appear brighter than the previous HPS fixtures because the whiter light allows the human eye to see more, yet they actually use far less energy than the HPS fixtures. Historically, individuals who initially view LEDs as too bright eventually adjust to the more natural light within 90 days. The City requests that residents who view the LEDs as too bright to wait 90 days in order to adjust to the light.

16. *My house is too dark at night now. Can the LEDs be adjusted?*

LEDs are more focused than HPS lights, which means that more light is focused on the sidewalk and road. HPS lighting was more spread out in all directions. The main objective of streetlights is to illuminate streets and sidewalks to provide a safe environment at night for motorists, bicyclists, and pedestrians to share the road. Property owners should install code compliant porch and/or front yard lighting to illuminate homes and business at night.