

**Project Number:** SL137  
**Project Title:** Citywide LED Street Lighting Conversion  
**Department Name:** DPW - Operations

**Asset Type:** Street Lights  
**CIP Status:** Recurring  
**Project Category:** Capital Upgrade

**Budget Year:** 2018  
**Category Code:** A  
**Sector:** Various

**Project Purpose:**

This is an upgrade and enhancement project that will replace all existing street lights on arterial and residential streets with LED fixtures. This project will reduce energy usage and maintenance expenses.

**Project Narrative:**

In 2017, engineering for the suitable LED replacements was completed. This included the evaluation of several LED options along with surveying residents regarding decorative street light fixture preferences. In 2018, this project will replace 2,843 specialty streetlights including Salem-post tops, Sheppard's crooks, and parking lot lights. In addition, arterial street lights on Ogden and Rt 59 will be replaced when approved by the State. This project also replaced a total of 8,391 cobrahead street lights on arterial and residential streets throughout the City in 2015 and 2016. The project replaced high pressure sodium (HPS) fixtures with Light Emitting Diode (LED) fixtures. The HPS lights are rated for 10,000 hours (2-3 years) and the LED fixtures are rated at 50,000 hours (10-15 years). The conversion will reduce energy usage, re-lamping fees, and maintenance costs. The gross savings from the project over 10 years is estimated at \$4.56 million and payback starts at around 6 years.

**External Funding Sources Available:**

Staff used \$750,000 in IMEA Grants in FY16 An additional \$100,000 may be available in CY18

**Projected Timetable:**

FY14-15 - Bid specification and vendor selection; FY15 - Installation on arterial roadways; FY16- Installation on residential streets (November 2015 - February 2016), 2017-2018 - specialty street lights, Ogden Avenue and Rt 59 Arterial lights is approved by State

**Impact on Operating Budget:**

Will reduce annual electric costs by \$166,163 and annual maintenance savings by \$276,780, and annual relamping services by \$74,906 when fully replaced.

**Funding Source Summary**

Funding Source	2018	2019	2020	2021	2022	Total Source
Unfunded Capital	500,000	510,000	520,200	530,604	541,216	2,602,020
<b>Totals</b>	<b>500,000</b>	<b>510,000</b>	<b>520,200</b>	<b>530,604</b>	<b>541,216</b>	<b>2,602,020</b>

**Project Cost Summary**

Expense Category	2017 Budget	2018	2019	2020	2021	2022	Total CIP
Construction	155,000	500,000	510,000	520,200	530,604	541,216	2,602,020
<b>Totals</b>	<b>280,000</b>	<b>500,000</b>	<b>510,000</b>	<b>520,200</b>	<b>530,604</b>	<b>541,216</b>	<b>2,602,020</b>

