

Legislation Text

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Information regarding planned KCPL Residential Lighting LED installation project.

Issue/Request:

Information regarding planned KCPL Residential Lighting LED installation project.

Key Issues:

- KCPL intends to change existing leased street lights to LED
- The LED light will replace the existing HPS, MV, MH, etc. on existing light poles.
- Replacement will likely begin in Lee's Summit mid-September and continue until the end of 2017.
- All City leased street lights from KCPL (e.g. residential street lighting) will be impacted.
- Cost changes to City leased lighting inventory are not known, but should be similar to existing based on published tariffs.

Background:

Until recently, KCPL has not offered LED street lighting within its municipal lighting schedule. Effective June 1, 2017, all new KCPL installed street lights will be LED and street light maintenance will be completed using LED street light equivalent fixtures. The LED standards used by KCPL will be equivalent to the High Pressure Sodium (HPS) street light described in the City's Street Light Policy (Resolution). The City's standard for residential lighting will otherwise not change.

KCPL intends to proactively change all of its street lights within Lee's Summit to LED. The replacement project will likely begin mid-September by KCPL. KCPL expects multiple crews (owner and/or contracted) will change all of its street lights in Lee's Summit to LED by the end of 2017. There are approximately 4000 KCPL street lights in Lee's Summit.

The LED fixture used by KCPL will have a flat lens, meeting the design criteria of the Unified Development Ordinance.

Impact/Analysis:

The change in street light specifications to LED with flat lens provides an alternative for private lighting which meets the City's Unified Development Ordinance. Private lighting interests could not previously be coordinated directly with KCPL.

The amount of light, color of light, etc. will be different with an LED source than HPS or MV. The change in light may generate resident questions. The LED light is more sustainable, requires less maintenance, and uses less energy than HPS and MV lights.

The tariffs for leasing LED municipal street lights will be different than the existing HPS and MV lighting currently leased. The difference in wattage, pole type, wiring (under ground or overhead), etc. provide for a

variety of cost comparisons that may be higher or lower than the LED replacement. Overall, the cost impact should not be significant.

Over the course of LED installations, a new identification system will be deployed and more accurate inventory completed by KCPL.

Presenter: Michael Park, City Traffic Engineer