

**COUNTY OF SACRAMENTO
CALIFORNIA**

For the Agenda of:
October 23, 2012
9:30 a.m.

To: Board of Supervisors

From: Department of Transportation

Subject: Presentation Of Sacramento Municipal Utility District (SMUD) Incentive Program Rebate To Sacramento County Department Of Transportation (SacDOT)

Supervisorial
District: All

Contact: Russ Childers, 875-5745

Overview

In recognition of the recently completed project to replace 1,400 older street light fixtures with energy efficient Light Emitting Diode (LED) street light fixtures, SMUD is presenting SacDOT an Energy Efficiency check in the amount of \$100,000.

Recommendation

Accept the funds on behalf of SacDOT.

Measures/Evaluation

Not applicable.

Fiscal Impact

The \$100,000.00 Energy Efficiency funds from SMUD will allow SacDOT to purchase and install 200 additional energy efficient street light fixtures.

DISCUSSION

SacDOT maintains and operates 22,800 street lights. Since 2008, SacDOT has been evaluating new, energy efficient street light technologies. SMUD has assisted the effort by loaning County staff equipment to measure illumination levels, and by reimbursing SacDOT for the purchase of prototype energy efficient street light fixtures for testing.

In 2011 and 2012, SacDOT utilized federal Energy Efficiency and Conservation Block Grant funds to purchase and install 1,400 LED street light fixtures. The new street light fixtures replaced older Mercury Vapor street light fixtures. SMUD estimates that the LED fixtures will reduce energy consumption by approximately 907,000 Kilowatt hours per year and the annual energy bill by \$65,000.

The County street light inventory consists of High Pressure Sodium street lights and a smaller number of Mercury Vapor street lights. The Mercury Vapor lights are generally older and consume much more energy than High Pressure Sodium lights.

LED street light fixtures are more than twice as expensive as standard High Pressure Sodium street light fixtures. At current prices, the additional cost of the LED fixtures cannot be recovered through energy savings alone. As the price of LED street light fixtures continues to drop, a more aggressive countywide street light replacement program may become economically feasible. For now, SacDOT will focus on replacement of the remaining Mercury Vapor street light fixtures.

FINANCIAL ANALYSIS

The \$100,000 Energy Efficiency check from SMUD will allow SacDOT to replace Mercury Vapor street light fixtures at signalized intersections with lower wattage, energy efficient LED street light fixtures. Any remaining funds will be used to purchase LED street light fixtures as “Maintenance replacements” which will be installed individually as older street light fixtures fail.

Respectfully submitted,

APPROVED:
BRADLEY J. HUDSON
County Executive

MICHAEL J. PENROSE, Director
Department of Transportation

By: _____
ROBERT B. LEONARD
Chief Deputy County Executive