

Street Lighting Program

Environmental Quality & Public Works
Committee

March 10, 2015

Environmental Quality & Public Works
Division of Traffic Engineering

Street Lighting Overview

- Street lighting has been mandated within the Urban Service Area since 1984.
- Street lights are leased from KU and BGE
 - KU Total = 29,718
 - BGE Total = 1,177
- Private street lighting is an option
 - Council Resolution 90-50



Street Light Styles



**Cobrahead
(Ornamental)**



**Shoebox
(Contemporary)**



Colonial



**Cobrahead
(Standard)**



Tariff Rates

- Rates established by the PSC
- Monthly lease rates differ by street light style
 - Cobrahead - \$11.60
 - Contemporary - \$16.79
 - Colonial - \$10.77
 - Granville (LFUCG purchase effective 2/19)



10-Year Operating Cost Comparison

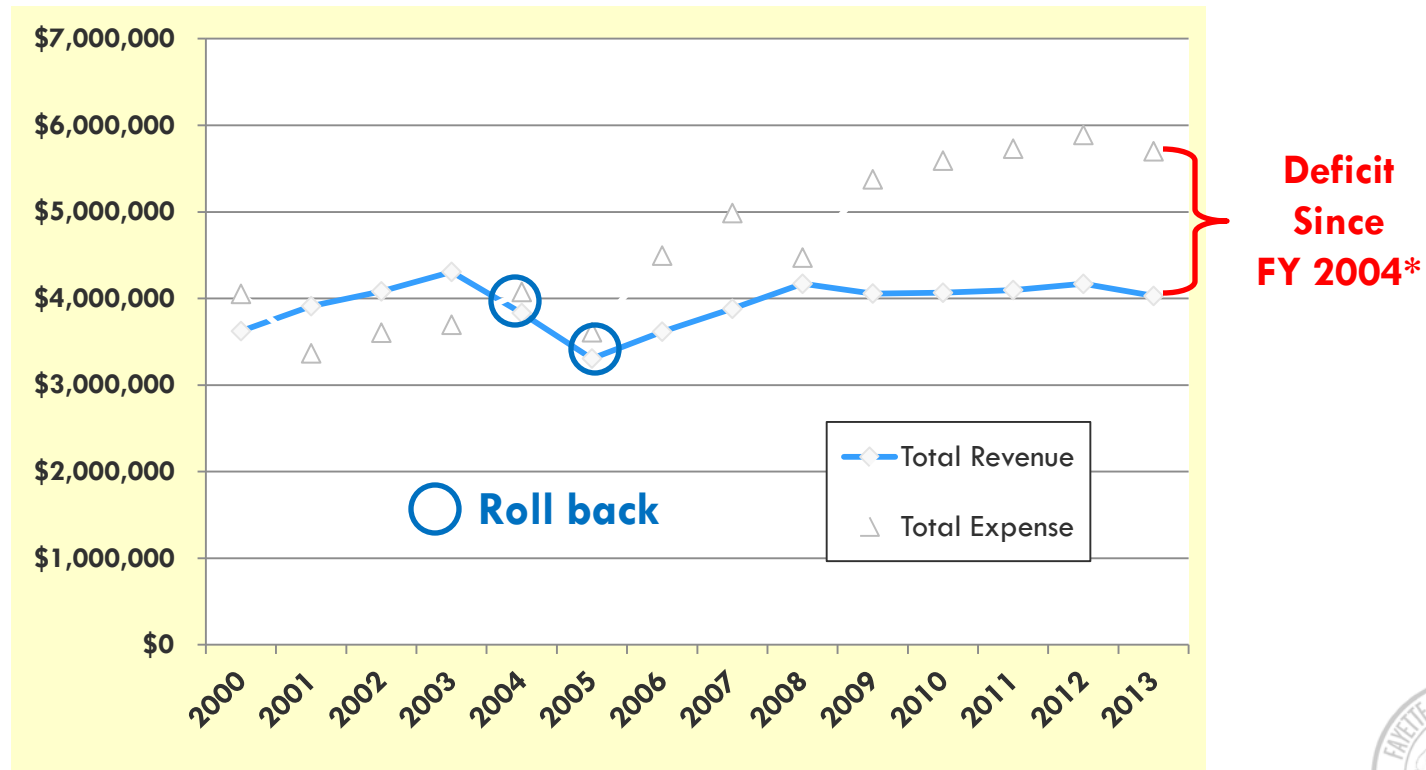
- PSC rate comparison is not apples to apples
 - Example of 28 ft wide local, residential street for length of 5000 ft.
 - Layout to meet IES R-P-8 & AASHTO Roadway Lighting Design Guide.

Fixture Type	Monthly Lease	# Fixtures Required	10-Yr Operating Cost
Cobrahead	\$11.60	32	\$70,144
Colonial	\$10.77	48	\$100,435
Contemporary	\$16.79	33	\$92,888



Street Light Revenue vs Expense

- Ten year change (FY 2003 thru FY 2013)
 - Revenue Decreased \$278k; Expense Increased \$2.0M



*Deficit covered by \$2.5MM General Fund Transfer in FY 2013; source: Div. of Budgeting



LED Street Lights

- KU has no immediate plan for LED lights
- No PSC tariff rate for LEDs
- Capital install costs = approx. 84% of tariff
 - Energy savings would not be reflected in charge
 - LED lights would be more expensive to lease



Granville Light Purchase

- Purchase was in best interest of LFUCG
 - Anticipated savings of \$200k/year
- 390 poles with 455 fixtures
- Traffic Engineering responsible for O&M
 - Maintenance contract with local company



Street Light Installation Status

- 416 lights installed in CY 2014
- 757 lights remain on list to be installed
 - 354 are corridor lighting projects (i.e., Leestown Road, Citation Blvd, Todds Road, Providence Place Pkwy)
- Next residential lights to be installed:
 - Summerfield (33 lights) – Council District 6
 - Greendale Reserve (21 lights) – Council District 2
 - Kearny Ridge (16 lights) – Council District 12



Questions?