



CITY OF LONG BEACH C-16

DEPARTMENT OF PUBLIC WORKS

333 West Ocean Boulevard 9th Floor • Long Beach, CA 90802 • (562) 570-6383 • Fax (562) 570-6012

December 6, 2011

HONORABLE MAYOR AND CITY COUNCIL
City of Long Beach
California

RECOMMENDATION:

Authorize the City Manager to execute all documents necessary to enter into a cooperative agreement with Southern California Edison (SCE) to conduct a Light Emitting Diode (LED) street light demonstration project utilizing City-owned street lights. (Districts 2,3,5 and 7)

DISCUSSION

SCE approached City staff to initiate a pilot program to test LED street light technology. The program would consist of replacing 100 existing high pressure sodium street light fixtures with equivalent LED fixtures. Four areas of 25 fixtures have been selected for this pilot program based on fixture type and associated circuitry as shown on the attached maps marked as Exhibit A through D. SCE will be including an outreach effort to explain to the residents that this is a pilot program to test out this technology, and that SCE and the City will be seeking their feedback on the new street lights. If the residents like the lights, SCE will allow the City to retain them at no cost. If the residents do not like them, SCE will have them removed at their cost and replaced with the original fixtures.

This program is intended to determine the viability of LED street light technology in a real world environment, the potential energy savings, and to solicit public feedback on the unique illumination provided by LED street light fixtures. All costs for this pilot program will be funded and paid for directly by SCE. SCE intends to hire the City's current street light contractor, WS Light & Power, Inc., assignee of City Light and Power, Inc., to perform the LED installation work.

This matter was reviewed by Deputy City Attorney Linda Trang on November 11, 2011, and by Budget Management Officer Victoria Bell on November 15, 2011.

SUSTAINABILITY

LED street lights have twice the life span and use half the power than a more traditional high pressure sodium street light fixture. Therefore, both significant energy and monetary savings are anticipated.

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TIMING CONSIDERATIONS

City Council action is requested on December 6, 2011, to allow SCE to begin installation work in early 2012.

FISCAL IMPACT

There is no fiscal impact to the City. The entire pilot program will be funded and paid for directly by SCE, and is estimated to be \$15,000. There is no local job impact associated with this action.

SUGGESTED ACTION:

Approve recommendation.

Respectfully submitted,



MICHAEL P. CONWAY
DIRECTOR OF PUBLIC WORKS

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MPC:MAC:db

Exhibit A – Council District 2 Map
Exhibit B – Council District 3 Map
Exhibit C – Council District 5 Map
Exhibit D – Council District 7 Map

APPROVED:



PATRICK H. WEST
CITY MANAGER



EXHIBIT A

**SCE LED Sample Area:
Council District 3**

- LIGHTS**
- City Light & Power - UNGD in
 - ⊕ City Light & Power - OVHD in
- FEEDPOINTS**
- Feedpoint**
- ⊕ Overhead (Wire) in
 - ⊕ Underground (Conduit) in
 - ⊖ Overhead (Wire) out
 - ⊖ Underground (Conduit) out
- CONDUCTORS**
- Overhead (Wire)
 - Underground (Conduit)

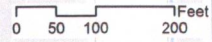


EXHIBIT B

C-16
Revised



EXHIBIT C



EXHIBIT D