

To the Mayor and Members of the City Council**April 19, 2016****Page 1 of 1****SUBJECT: STREET LIGHT ENERGY SAVINGS PILOT PROGRAM**

The purpose of this informal report is to respond to a question from Councilwoman Allen Gray concerning innovative opportunities related to upgrading of street lights throughout the City as has been done in other municipalities. The question was timely since staff has been working on bringing forward a Street Light Energy Savings Pilot Program. The goal of the project is to modernize the street light system throughout the City by beginning with a pilot program in southeast Fort Worth. This effort will upgrade approximately 6,000 freeway and arterial lights to LED fixtures. The benefits of LEDs include lower energy consumption, better night time visibility, less light pollution and lower maintenance costs. The energy savings earned from the upgraded fixtures will cover the cost of the program.

In 2015 Fort Worth began working with the U.S. Department of Energy and the State Energy Conservation Office (SECO) to develop this program, which has been broken down into five phases.

- Phase 1, Procurement Planning: to select project delivery methodology
- Phase 2, Preliminary Assessment: for the State Energy Conservation Office (SECO) to provide a preliminary energy assessment (PEA)
- Phase 3, Project Development: to publish a Request for Proposals (RFP)
- Phase 4, Construction Contracts: to award a contract to a qualified provider
- Phase 5, Performance Assessment: to analyze and publish data

Phase 1, Procurement Planning and Phase 2, Preliminary Assessment are underway and are expected to be completed in June 2016 when SECO's contractor delivers the preliminary energy assessment (PEA) to the City. The PEA will include a preliminary audit that will identify energy cost savings. The PEA will also include a street light inventory verification and a lighting technology recommendation. The information from the PEA will then be used to refine the construction contract scope of services.

Phase 3, Project Development was originally expected to run from June to December 2016, with Phase 4, Construction Contracts and Phase 5, Performance Assessment, expected to run through 2017. Phases 3 and 4 are now being truncated through a co-operative agreement with OpTerra Energy Services, the company currently managing the City of Arlington's energy savings street light program, to take advantage of the availability of local crews when that project ends this fall. OpTerra will conduct a technical assessment, manage the installation of LEDs, and update street light infrastructure in this pilot project.

Staff will place an M&C for Council action to authorize a non-exclusive purchase agreement with OpTerra Energy Services on a Council agenda this summer for consideration. Please contact Alonzo Linan, Assistant Director TPW at 817-392-7861 with any questions.

David Cooke
City Manager