




PO Box 1749  
Halifax, Nova Scotia  
B3J 3A5 Canada

## **REVISED**

## **BRIEFING FORM**

**SUBMITTED TO:** Environment and Sustainability Standing Committee

**DIRECTOR'S APPROVAL:**   
\_\_\_\_\_  
Ken Reashor, P.Eng., Director, Transportation and Public Works

**DATE OF MEETING:** June 2, 2011

**SUBJECT:** Second Generation Street Light Pilot Project

### **BRIEFING NOTE**

#### **ORIGIN**

- January 6, 2011 Environment and Sustainability Standing Committee meeting approved the Staff recommendation that the Halifax Regional Municipality participate in an application for funding support for an LED street light pilot project through Sustainable Development Technology Canada (SDTC). If approved, the project would involve replacing as many as 3500 existing street lights in the municipality with LED street lights equipped with monitoring and dimming control capability.
- January 18, 2011 Regional Council meeting approved an Environment and Sustainability Standing Committee recommendation to allocate necessary funds to participate in the pilot project in the event that the application to SDTC was successful.

#### **BACKGROUND**

In October, 2010, LED Roadway Lighting Ltd. (LRL) introduced HRM staff to a street light pilot project that they were proposing to Sustainable Development Technology Canada (SDTC).

This pilot represents a second generation LED street light technology, incorporating LED lights with dimming/monitoring capability. They expressed interest in using HRM as the installation venue. On November 30, 2010, LRL indicated that the project had passed initial screening and was invited by SDTC into Phase II of the funding process. This phase entails the development of an extensive business plan that demonstrates how LRL and its partners will work to test, measure and validate its technology as it transitions from R&D to full commercialization in the market. At this point, it is necessary for the municipality to formally commit to participating in the application for funding from the Federal Government.

As a partner in this project, HRM would be responsible for installing the 3500 fixtures, maintain and monitor the luminaires throughout the two year lifecycle of the SDTC project. The fixtures would be supplied at no cost to the municipality, and would remain with HRM at the completion of the pilot project. This represents a value of approximately \$1.7 million. Based on a recent installation contract, HRM would be committing to spend approximately \$300,000 in 2011/2012, to participate in this project. Annual energy savings associated with this conversion would be in the \$120,000 range. With annual maintenance savings estimated to be in the \$30,000 range, a simple payback of about two years would be anticipated. Additional monitoring and maintenance costs associated with the pilot project would be managed within existing operating budgets.

## **DISCUSSION**

The business case for the LED Street Light pilot Project was submitted to SDTC in January 2011. A meeting to review and finalize the business case, among project application proponents and SDTC, was held in February. The notice that the application was not successful was provided May 13, 2011. While the application was not successful, the main proponent, LED Roadway Ltd. was encouraged that the project application made it to the final evaluation stage. SDTC indicated that a debriefing would take place within the next several weeks.

## **COMMUNICATION ISSUES/OPPORTUNITIES**

None identified.

## **ATTACHMENTS**

None

## **KEY STAFF CONTACT**

Angus Doyle  
Manager Utilities Coordination  
Transportation and Public Works