

Staff Report – LED Streetlights Conversion update

For information only

Purpose

This report is to update the Finance and Administration Committee on the status of the LED streetlights conversion project.

Background

The LED Streetlight Conversion project was approved in the 2020 budget. The project consists of converting all existing non-LED streetlights to LED under the AMO/LAS turnkey program with RealTerm Energy.

The approved budget, net of incentives for this project is \$6.15 Million. As part of the project, Realterm energy was required to complete an investment grade audit of the streetlight network to ascertain a firm cost estimate. The net cost provided including provisions for contingencies and decorative lighting conversions in the downtown core is \$5.6 Million. If this positive variance remains at the end of the project, the surplus will be returned to the holding account per the City's Capital Budget policy.

Status

Realterm has furnished the Investment grade Audit (IGA) and finished all the designs, complete with photo metrics and fixture selection, which formed the basis for cost estimates and materials procurement.

Delivery of materials for the conversion commenced in mid-June 2020 and installation started in early July. As of July 2020 all lighting materials except the decorative style have been delivered to the City. Realterm has contracted the installation to seven crews that have completed approximately 5,600 LED streetlight conversions and approximately 5,310 streetlights remain to be converted. Realterm expects that they will complete 100% of the conversion by November 2020. Upon completion, documentation will be submitted to the Independent Electricity System Operator (IESO) for receipt of the incentive for \$544,099. Realterm will also transfer all data files to the City and transfer all warranties upon completion.

Downtown Decorative Lighting

Lighting in the downtown core is a mix of decorative LED fixtures, decorative HPS fixtures and non-decorative fixtures. In order to provide a consistent approach to the lighting in the downtown, decorative LED fixtures are to be installed. The downtown Business Improvement Area (BIA) has been consulted and is supportive of the initiative. The BIA has committed to contributing \$100,000 towards the approximately \$595,000 cost of conversion and has been involved in the selection of fixture type and colour preferences.

Future Energy Savings

The City's Energy Engineer has been in contact with the respective utilities (Hydro One and Greater Sudbury Utilities) to advise as to the conversion of LED streetlights in their jurisdictions. Upon completion of the streetlight conversion, Realterm energy estimates that the City will reduce energy consumption by 7,399,527 kWh or 61%, with expected monetary savings of approximately \$1,059,479 or 41%.

Conclusion

The LED street lighting conversion project is approximately 52% complete as of August 19, 2020. It is expected that the contractor will meet the completion timeline of November 2020. Financially, the project is in a surplus of approximately \$0.5 Million. Any surplus remaining upon completion of the project will be returned to the holding account in accordance with the Capital Budget Policy.