

LED Conversion

Project Definition

This project will convert 1,280 light fixtures from high pressure sodium to LED along streets in the Downtown core, along river valley trails and in various parks. The LED fixtures will replace ones that are 30 to 40 years old and improve reliability of the lighting system and the safety of drivers and pedestrians in those areas.

Scope and Budget (Program Ask and How City Portion is Funded)

Item	Scope	Budget
LED Conversion	Convert 1,280 fixtures from high pressure sodium to LED	\$741,000

Evaluation Criteria Alignment

This project demonstrates alignment with the funding application as follows:

<p>Project Rationale Meets One of the Project Priorities (choose one or more)</p> <p><i>Revitalize Downtown Core and Main Streets</i></p> <ul style="list-style-type: none"> • The fixtures selected are located along streets in the Downtown core, along the river valley trails and in various parks. • The new fixtures will replace fixtures that are approximately 30 to 40 years old providing a fresh look for the area. • With the current inventory being 30 to 40 years old, the project will also improve reliability of the lighting system with fewer failures and no dark spots for the pedestrians and drivers to travel thru. <p><i>Create Green Infrastructure</i></p> <ul style="list-style-type: none"> • The new LED fixtures will reduce electrical consumption by approximately 60%. • The new fixtures will be dark sky compliant reducing overall sky glow and light trespass.
<p>Outcomes</p> <p><i>Briefly describe the socio-economic benefits associated with this project.</i></p> <ul style="list-style-type: none"> • A highly reliable roadway and pathway lighting system will provide a sense that the area is well taken care of and promote pedestrians to the area. <p><i>Does the project promote environmental benefits?</i></p> <ul style="list-style-type: none"> • The LED fixtures will reduce the connected load by 137kW which reduces consumption by 568,000kW/hr. <p><i>Does the project allow more people to use the space?</i></p> <ul style="list-style-type: none"> • The project promotes the use of the public roadways, trails and parks by ensuring that they are adequately illuminated.

Project Readiness

Provides a responsible budget including clear costing, procurement decisions and equity considerations.

Demonstrates the project can be completed in realistic timelines.

- The City of Saskatoon has undertaken this type of project in the past and is currently ahead of schedule and under budget.

Project Timeline (proposed start date and end date)

- Procurement of fixtures December 2021 to May 2022
- Installation of fixtures June 2022 to September 2022

Can the project be completed by March 31, 2023?

- Yes, the project will be complete by September 2022.

Has there been any community or stakeholder engagement on the project?

- As this is replacing existing infrastructure, community or stakeholder engagement will not be necessary

Budget:

- Project Cost: \$1,221,000
- City of Saskatoon Contribution: \$471,000
- Government of Canada Contribution: \$750,000