



Legislation Details (With Text)

File #: 2019-0582 **Version:** 1 **Name:** Smart Street Lighting Implementation
Type: MOTION **Status:** PASSED
File created: 7/31/2019 **In control:** Board of Trustees
On agenda: 8/19/2019 **Final action:** 8/19/2019
Title: Smart Street Lighting Implementation

Code sections:

Attachments: 1. Smart Lighting Proposal, 2. Vantage Point Quote, 3. Lightgrid Quote

Date	Ver.	Action By	Action	Result
8/19/2019	1	Board of Trustees		
8/5/2019	0	Public Works Committee	RECOMMENDED FOR APPROVAL	Pass
7/31/2019	0	Public Works Department	INTRODUCED TO BOARD	

Title/Name/Summary

Smart Street Lighting Implementation

History

As a part of the village's effort to become more energy-efficient, the Board of Trustees approved the conversion of the residential high-pressure sodium street lights to more efficient LED street lights. The upgrade to the residential street lighting was completed in 2018. As part of the upgrade, the new GE brand LED street lighting luminaires are able to be fitted with a smart light component that will allow the street light and other village devices to be monitored and controlled remotely.

After investigating several lighting control technologies, staff narrowed the focus to two companies that offer feasible options. Both companies met with staff presenting their products and outlining the benefits of using their systems.

GE Lightgrid®, offered through The Will Group of Wheaton, IL provides smart lighting technology using strategically place gateways at various locations to communicate with the controlled lighting network. Providing a fixed cost per node and set up fee, this option offers licensing and software at no cost for the first 10 years.

VantagePoint® Lighting Control is an intelligent solution from Sensus that uses a lighting control module, lighting software and the Village's existing FlexNet® communication network to monitor and control roadway lighting. Since 2013, the Village has utilized the FlexNet system as an accurate and efficient means for water meter readings. Offering a lower initial cost per node, this option includes a monthly hosting fee.

With the Village intending to install approximately 3800 nodes using Village staff over a five year period, the attached analysis projects the overall costs to the Village. As shown, the VantagePoint system would provide a \$295,717 savings over the next ten years when compared to the Lightgrid system. The local authorized vendor for Sensus products in our area is Core & Main of Mokena, Illinois. Purchases from sole-source providers are not required to be bid.

With the recent street light LED upgrade the village received rebates offered through Commonwealth Edison totaling \$270,990.30. Staff is requesting to reinvest a portion of the Commonwealth Edison rebate money for the continuing upgrade of the street lighting system.

As such, it is staffs' recommendation to accept the proposal from Core & Main of Mokena, Illinois for an amount not to exceed \$87,850.00. Funding for the project for future years will be requested through the budget process.

On August 5, 2019 this item was reviewed by the Public Works Committee and recommended for approval and referred to the Village Board of Trustees for consideration.

Financial Impact

Funding for this project is available from Commonwealth Edison rebates received following completion of the 2018 residential LED street light conversion project, and is available in account 054-0000-471300.

Recommended Action/Motion

I move to approve accepting the proposal from Core & Main of Mokena, Illinois, in an amount not to exceed \$87,850.00.