

Article 9 LED Streetlight Conversion Project

As part of the Town’s efforts to provide essential services as cost effectively as possible, staff has researched and analyzed converting the current streetlights to energy efficient LED fixtures which will mean significant cost-savings to the taxpayers.

The streetlights on utility poles are owned and operated by Central Maine Power (CMP). There are 313 streetlights owned by CMP throughout town. The Town pays a monthly rental fee for the fixtures and poles and the electrical costs. The Town has no control over the brightness, efficiency, or whether the lights are working. If a streetlight goes out, the Town has no control over when it will be repaired or replaced. In some cases, residents have waited many weeks for lights to be replaced.

Article 9 on the Town Meeting Warrant would convert the 313 streetlights owned by CMP to LED lights, and change ownership of the fixtures from CMP to the Town. This change will save taxpayers thousands of dollars annually in utility costs, allow the Town to have control over the light fixtures including brightness and maintenance, and reduce energy usage.

As shown on the chart below, the Town will immediately start saving enough money to pay for the new LED lights, be able to set aside funds for any maintenance needed, and still save money each year. Initially the costs savings are about \$18,00 a year. After 5 years when the project is fully paid for, the savings are more than \$50,000 year.

The chart shows one model where the lights are changed to LED fixtures and CMP retains ownership, and the other model where the Town owns and maintains the fixtures. As noted in the chart, the savings to taxpayers is greater in the Town-owned option.

By changing to LED streetlights, instead of paying CMP \$75,000 annually, the cost to taxpayers will be less than \$12,000. In addition to the cost savings, the environmental benefits through reduced energy usage is estimated to reduce the Town’s carbon footprint by 139 tons annually.

TOWN OF OGUNQUIT								
LED Streetlight Conversion Project								
Article 9 on the November 3, 2020 Town Meeting Warrant								
CMP OPTION					TOWN-OWNED OPTION			
	CURRENT UTILITY COST TO THE TOWN	LED FIXTURES TOWN COSTS	UTILITY COST AFTER THE LED CONVERSION	ANNUAL SAVINGS	LED FIXTURES TOWN COSTS (5-Year Financed)	UTILITY COST AFTER THE LED CONVERSION	MAINTENANCE COSTS (as needed)	ANNUAL SAVINGS
Year 1	\$ 75,394.07	0	\$ 46,270.00	\$ 29,124.00	\$ 37,532.95	\$ 11,611.00	\$ 0	\$ 26,250.00
Year 2	75,394.07	0	46,270.00	29,124.00	37,532.95	11,611.00	0	26,250.00
Year 3	75,394.07	0	46,270.00	29,124.00	37,532.95	11,611.00	7,500	18,750.00
Year 4	75,394.07	0	46,270.00	29,124.00	37,532.95	11,611.00	7,500	18,750.00
Year 5	75,394.07	0	46,270.00	29,124.00	37,532.95	11,611.00	7,500	18,750.00
Year 6	75,394.07	0	46,270.00	29,124.00		11,611.00	7,500	56,283.00
Year 7	75,394.07	0	46,270.00	29,124.00		11,611.00	7,500	56,283.00
Year 8	75,394.07	0	46,270.00	29,124.00		11,611.00	7,500	56,283.00
Year 9	75,394.07	0	46,270.00	29,124.00		11,611.00	7,500	56,283.00
Year 10	75,394.07	0	46,270.00	29,124.00		11,611.00	7,500	56,283.00
TOTAL 10-YEAR SAVINGS TO THE TOWN				\$ 291,240.00				\$ 390,165.00

Note: Maintenance costs are included in the cost in year 1 and 2. Maintenance costs are factored in at \$7,500 per year. If those monies are not needed for maintenance, they are additional cost savings.

Note: Estimated annual reduction in greenhouse gas/carbon dioxide emissions: 139.2 tons