

# Lighting Audit Report Summary

## May 2019

### Rye Energy Committee

In December, the REC requested that Eversource conduct lighting audits on our municipal buildings and schools. Eversource contracted with Energy Management Consultants (EMC) to perform the analysis. In January, Carl Edin of EMC inspected the lights in the Town Hall, Public Library, Public Safety Building, Transfer Station, as well as the Junior High and Elementary School. His lighting audit report details the lights, ballasts, switches, dimmers and motion detectors he proposes to replace or install in each facility.

The report summary on page 16 estimates the annual energy cost savings of the project would be \$11,959. The estimated cost of performing these upgrades is \$71,098 of which Eversource would pay \$34,665. The remaining \$36,432 owed by the Town would be financed by Eversource at 0% interest and added to the monthly electric invoices. Allocating the lighting upgrade project cost over a period of approximately three years would make the project revenue neutral. The REC recommends that the Board authorize Eversource to proceed with the project to upgrade the lighting in the municipal buildings.

The REC will meet with the School Board to review the lighting audit reports for the schools. The School report estimates annual energy cost savings at \$16,074. The REC will recommend the School Board authorize Eversource to proceed with the lighting upgrade project as well.

### Town of Rye Lighting Audit Summary

Prepared by Carl Edin  
ENERGY MANAGEMENT CONSULTANTS  
2/21/2019

						2018		Estimated	
	Savings	Energy	Project	Estimated	Net Project	Actual Usage		Annual Usage	
Area	kWh	Savings	Cost	Eversource Incentive	Cost	kWh	Dollars	kWh	Dollars
Highway Garage	5,743	\$1,269.20	\$5,915.00	\$2,957.50	<b>\$2,957.50</b>	18,068	\$3,531.85	12,325	\$2,262.65
Recycling & Swap Shop	3,935	\$747.65	\$2,971.00	\$1,485.50	<b>\$1,485.50</b>	18,589	\$3,688.66	14,654	\$2,941.01
Library	21,771	\$4,180.03	\$22,120.00	\$11,060.00	<b>\$11,060.00</b>	69,360	\$14,420.72	47,589	\$10,240.69
Public Safety	29,675	\$4,510.60	\$32,699.00	\$15,466.00	<b>\$17,233.00</b>	138,560	\$22,443.29	108,885	\$17,932.69
Town Hall	7,498	\$1,252.17	\$7,393.00	\$3,696.50	<b>\$3,696.50</b>	52,017	\$8,966.33	44,519	\$7,714.16
<b>TOTALS</b>	68,622	<b>\$11,959.65</b>	\$71,098.00	\$34,665.50	<b>\$36,432.50</b>	296,594	\$53,050.85	227,972	\$41,091.20
								<b>Decreased energy usage</b>	<b>-23%</b>

**Notes:**

1. Estimated blended rate varies between .152-.221/kWh
2. Eversource incentives to be approved.