

# Rye School Board

## Lighting Audit Report Summary

In December, the Rye Energy Committee requested that Eversource conduct lighting audits on Rye municipal buildings and schools. Eversource contracted with Energy Management Consultants to perform the analysis. In January, Carl Edin of EMC inspected the lights in the Rye 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 school. The summary on page 16 estimates the annual energy cost savings of the project would be \$16,074.58. The estimated cost to perform the upgrades is \$96,934.00 of which Eversource would pay \$48,467.00. The remaining \$48,467.00 owed by the SAU could be financed using the Eversource Smart Start program at 0% interest. The payment would be added to the monthly electric invoices. Allocating the lighting upgrade project cost over a period of approximately two years would make the project revenue neutral. The REC recommends that the School Board authorize Eversource to proceed with the project to upgrade the lighting in the schools using the Smart Start financing program.

# Town of Rye Lighting Audit Summary

Prepared by Carl Edin

ENERGY MANAGEMENT CONSULTANTS

2/21/2019

<u>Area</u>	<u>Savings kWh</u>	<u>Energy Savings</u>	<u>Project Cost</u>	<u>Estimated Eversource Incentive</u>	<u>Net Project Cost</u>	<u>2018 Actual Usage</u>		<u>Estimated Annual Usage</u>	
						<u>kWh</u>	<u>Dollars</u>	<u>kWh</u>	<u>Dollars</u>
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 -23%

**Notes:**

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