

Town of Wenham

Streetlight Conversion to LED

Project Overview

Street lighting constitutes as significant portion of municipal energy consumption and expenditures. In Wenham, street lighting accounts for 15% of total municipal electricity usage. Wenham is in the process of converting all street lighting from High Pressure Sodium technology to Light Emitting Diode (LED) technology in an effort to reduce energy usage and standardize certain fixture types and styles. The retrofit will also create a unified aesthetic appearance for the Town.

The conversion is projected to reduce street light energy consumption by over 60% annually. The Town will also enjoy these other benefits:

- Reduced maintenance costs due to longer fixture life
- Visible commitment to efficiency
- Improved safety through enhanced visibility
- Decreased light trespass and pollution
- Instant-on
- No mercury, lead, or other known disposable hazards

Project Financials

This project is being nearly 100% funded with a Green Communities Grant through the Massachusetts Department of Energy Resources. Wenham was eligible to apply for the funding due to its status as a designated Green Community, achieved in 2010. In order to do the retrofit, Wenham had to first purchase all of the lights from National Grid, which was completed in March 2015. Below is a table showing the project financials:

Item	Cost
Streetlight Purchase	\$ 22,773
Construction Costs	\$198,565
Utility Incentives	(\$ 23,000)
Green Communities Grant	(\$196,316)
<i>Total Cost to Town</i>	<i>\$ 2,022</i>
<i>Estimated Annual Energy Savings</i>	<i>\$ 22,291</i>