

ACTON MUNICIPAL PROPERTIES DEPARTMENT

INTERDEPARTMENTAL COMMUNICATION

To: Steve Ledoux, Town Manager **Date:** 1/29/15
From: Dean A. Charter, Municipal Properties Director
Subject: DOER Green Communities Grant, Next Round

Department of Energy Resources (DOER) has announced the next round of Green Communities grants, with submissions due in mid-March. I will be proposing that we apply for a grant to convert the balance of our street lights over to Light Emitting Diode (LED), in furtherance of the stated goals of the Board of Selectmen. I am still working out some details but have had preliminary discussions with Wellesley Municipal Light Plant and NSTAR electric.

I would propose that we convert 679 existing lights (about an even split between 50 Watt Metal Halide and 100 Watt Metal Halide lights plus a few Mercury Vapor lights) to 27Watt and 51Watt LED lights. I estimate that the energy savings alone would save \$23,000 per year, plus we would be able to eliminate most of our monthly service contract, saving an additional \$28,000 per year, for a total annual savings to the taxpayers of Acton of a bit over \$51,000 per year. The Kilo Watt Hours (KWH) savings for December alone would be around 14,000 KWH.

The cost of converting 679 lights would be \$231,539 (\$341 per light). The pay back period, without any rebates, would be 4.5 years. Life expectancy of the new LEDs is ten years.

I am preparing information for a rebate from NSTAR, and would expect to get around \$30,000 in incentives, bringing the payback period to four years.

I will update you as information is developed and will bring the grant application and supporting documents to you in early March.

cc.: Green Advisory Board