



A Customer Owned Utility
Serving Our Community Since 1894

August 1, 2017

NAED is one of only forty (40) municipal electric departments within the Commonwealth of Massachusetts. We are committed to promoting the interests of "Public Power" on behalf of the citizens of this community

Monthly Update of North Attleborough Electric Department's Activities

Dear Friends:

This month's newsletter offers the opportunity to update you about the planned change in our community's street lights during the forthcoming year.

LED LIGHTS COMING TO NORTH ATTLEBOROUGH

As noted in a previous newsletter the North Attleborough Electric Department (NAED) was awarded, through Energy New England, a grant of \$236,947 by the administration of Governor Charles Baker to assist the department in converting municipal street lights to LED (light-emitting diode) technology. The grant award is funded by a total \$11.4 million grant program, provided to NAED, via Energy New England, Inc. (ENE), and through the Department of Energy Resources (DOER), Rapid LED Streetlight Conversion Program. The grant funds will be used to assist local communities to expedite streetlight conversions to LED technology. Governor Baker has stated, "Investing in LED streetlight conversions will lead to reduced energy costs and better road safety for motorists and municipalities across Massachusetts," said Governor Charlie Baker. "The partnership between the Commonwealth and our regional planning authorities and municipal light plants will help maximize the positive benefits of this grant funding."

On July 13, 2017 the Board of Electric Commissioners and NAED staff met with the Board of Selectmen and reviewed the planned grant and LED installation project. Following a presentation to the Board of Selectmen by Peter Schiffman, System Engineer, the Board of Selectmen voted to support the project. It is anticipated that the installation of the new LED bulbs will result in the reduction of both energy consumption and municipal street light costs. It is also envisioned that the LED lighting will reduce NAED maintenance costs and improve the overall visibility on our roadways. The work is scheduled to be completed by June 30, 2018. NAED presented the following informational sheet to the Board of Selectmen:

NAED-LED Street Lighting Project Information Sheet **Grant Highlights:**

- DOER – MA Department of Energy Resources Grant awarded North Attleborough up to \$236,947
- ENE-Energy New England is our Regional Partner coordinating the grant application
- AECOMM is ENE's chosen project management firm overseeing the LED project on behalf of ENE
- A lighting audit is required by AECOMM at a cost to NAED – Status completed as of April 5, 2017
- NAED has requested for a waiver of this audit given our GIS data
- DOER has agreed to reduce our audit to 25% of NAED's installed light base

- Requires the host town chief executive (i.e. Board of Selectmen) to review the audit and to provide written approval of NAED's street lighting replacements option selection
- 12 Municipal Light Plants were awarded a grant
- Covers 50% of material costs (LED fixture and controls)
- Labor costs and police detail costs are not covered
- LED Lights must be rated by DLC-Design Lights Consortium or Energy Star – minimum color temperature of 3000k
- Decorative lights (aka-Ornamental lights) are not included
- Building mounted and parking lot lighting is not included
- Pass a minimum of 25% of the savings to the host municipality for the first year
- Example: 50W HID equivalent LED ~30W, results in a ~40% energy savings of which a quarter of the energy savings to be passed to the host municipality

NAED Existing Street Lighting Statistics:

- NAED currently uses HPS-High Pressure Sodium Lamps in a Ballasted fixture
- 1961 street lights are installed & 836 rental lights are installed
- 50 Watt lamps make up the majority of installed street lights at 1689
- NAED has 50W, 100W, 150W, 250W cobra head fixtures as well as 250W and 400W Flood Lights installed

Basic Lighting Information: Incandescent

- The typical color temperature of a High Pressure sodium bulb is 2100K
- The ballast uses an additional 10-20% of energy and the lumen output lowers over the course of the bulb life

LED

- The minimum DLC approved color temperature is 3000K
- The entire fixture must be replaced for streetlights
- Retrofit available for Ornamental Lights
- Dimmable with so-called smart controllers
- Improved visibility, Lower energy consumption & Lower light pollution

Please continue to remember our fellow citizens who are defending our country throughout the world. As always, should you have any questions at any time, please feel free to contact me at 508.643.6300.

Sincerely,

James C. Moynihan
General Manager