



Town of Mount Desert

21 Sea Street, P.O. Box 248
Northeast Harbor, ME 04662-0248
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www.mtdesert.org director@mtdesert.org

MEMO

To: Interested Parties
From: Tony Smith, Public Works Director on Behalf of the Sustainability Committee
Re: LED Streetlight Project
Date: April 20, 2018

PUBLIC INFORMATION MEETING NOTICE

What: LED Streetlight Replacement Project Information Meeting

- Discussion of the project and selection process
- Discussion of the pilot studies and LED fixtures

Your role as a resident:

- Read the rest of this notice and visit the three pilot studies described on the last page.
- Evaluate and give feedback on the pilot studies
- Attend the meeting to participate in discussions of the fixtures

Deadline: Meeting will be held on May 17, 2018 at 6:00 PM

Where: Town Office Meeting Room

History: Municipalities like ours are replacing their existing streetlights with efficient and long-lasting LEDs to save money on energy and maintenance. As we are aware, town meeting approved funding for the replacement of our high-pressure sodium and mercury vapor streetlights with new dark-sky compliant LED streetlights. We will own the LED streetlights; we pay Emera Maine a fixed lease payment for the current ones but will now pay only for the electricity – at a lower rate

Pilot Studies: As promised, there are presently three pilot studies in place in town, two in Northeast Harbor and one in Seal Harbor. The pilot studies are experiments that allow all of us to see and evaluate the LED fixtures in actual use that the Sustainability Committee (Committee) is considering recommending for town-wide installation. Additional information can be found on the next page.

Decision Process: The Committee requests that residents of town visit the three pilot studies and provide feedback to them. This feedback can be e-mailed to Public Works Director Tony Smith at director@mtdesert.org. He will serve as the clearinghouse for questions and comments and will forward the same to the Committee chairperson who will address them. In addition, there is a public meeting scheduled for the meeting room at the town office on May 17, 2018 at 6:00 PM to discuss the pros and cons, preferences, etc. of the fixtures that are in the pilot studies.



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Post-Installation: It is anticipated that there will be one type of fixture chosen with one color temperature. Once this is done, and the fixtures are installed, we will continue to receive feedback from those interested. Also, some of the utility poles the fixtures are on are leaning one way or the other. We will address this as soon as possible after the new ones are installed. Once the installation contractor arrives on site, it is anticipated that they will be able to exchange our 285 +/- fixtures in two to three weeks.

Pilot Study Fixture Locations: There are a total of 18 new LED fixtures in place, 12 in Northeast Harbor and six in Seal Harbor. You will note that the two pilot studies in Northeast Harbor have 11 Acuity fixtures and one Eaton-COOPER fixture; the one in Seal Harbor has three Acuity and three Cree. Originally, Seal Harbor had all Acuity fixtures but after some discussion by the Committee, they opted to have three replaced with Cree so a direct comparison could be made. The locations selected for the pilot studies were chosen with the thought that more people would see the fixtures as they go about their regular travels before being made “officially” aware of the exchange of old with new fixtures and to be able to group them together per pilot study for comparison sake.

The utility poles that the new fixtures are on have a four-inch square to six-inch square green sign with white numbers from 1 - 18 on them. The signs are attached to the pole. The locations with fixture number, brand temperature and wattage are shown in the table on the next page.

Fixture Types: The Committee identified two brands of fixtures, Acuity and Cree, and three temperatures - 2700K, 3000K and 4000K - to include in the pilot studies. The temperature rating of the fixtures is measured in Kelvin (K), which is a third measure of temperature like the ones we are most familiar with, Celsius (C) and Fahrenheit (F). The Kelvin temperature is a measure of the color or glow of the light emanating from the fixture. From Westinghouse and other sources:

- At the lower end of the scale, from 2000K to 3000K, the light produced is called “warm white” and ranges from orange to yellow-white in appearance. The American Medical Association recommends LED lights in this range; and there is less glare from lights of this range making for safer driving conditions.
- Color temperatures between 3100K and 4500K are referred to as “cool white” or “bright white.” Fixtures within this range will emit a more neutral white light and may even have a slightly blue tint. There is more blue spectrum light emitted from fixtures in this range.
- Above 4500K brings us into the “daylight” color temperature of light. Light bulbs (lamps) with color temperatures of 4500K and above will give off a blue-white light that mimics daylight and contains far more of the blue light that should be avoided in streetlights.

If anyone has any questions about this information or has feedback, please contact Tony Smith as described above or at 276-5743.



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LED Pilot Study Locations and Fixture Information

1. Northeast Harbor - South Shore Road: Saint Mary's By-the-Sea Church to Cove End Road

Pole Green Sign/Number	Fixture Brand	Temperature (K)	Wattage (W)
1	Eaton-COOPER	2700	24
2	Acuity	3000	24
3	Acuity	3000	24
4	Acuity	4000	24
5	Acuity	4000	24
6	Acuity	2700	47

2. Northeast Harbor - Summit Road near Nursery Lane to just past Millbrook Road

Pole Green Sign/Number	Fixture Brand	Temperature (K)	Wattage (W)
7	Acuity	2700	24
8	Acuity	2700	24
9	Acuity	3000	24
10	Acuity	3000	24
11	Acuity	4000	24
12	Acuity	4000	40

3. Seal Harbor - Main Street just past former gas station to Jordan Pond Road

Pole Green Sign/Number	Fixture Brand	Temperature (K)	Wattage (W)
13	Acuity	2700	32
14	Acuity	2700	24
15	Acuity	2700	32
16	Cree	2700	32
17	Cree	2700	32
18	Cree	2700	32