



The Jenness Beach Precinct in Rye, NH is launching a project to replace old streetlights with energy-efficient LED technology.

LED Streetlight Advantages

- Energy Efficient
- Long life
- Much lower electricity cost
- More uniform light
- Better visibility and color rendering
- No toxic materials
- No UV light to attract insects
- Reduced light pollution

Why is the Precinct replacing the streetlights?

- The Precinct is paying an electricity rate 2-3 times higher than the LED streetlight rate. Streetlight costs account for 20% of the Precinct budget.
 - 85% of the streetlights are 50-year-old inefficient mercury vapor type. This type of fixture can no longer be manufactured or sold due to its hazardous mercury content.
 - Jenness Beach has a lot of streetlights in its small area. There are currently 69 streetlights in the Precinct, while the rest of town has only 9 streetlights and Rye Beach has 10.
 - The old lights have poor light quality and cause light pollution.
 - The lamps in the old streetlights require replacement about every 2-4 years.

How much energy will be saved with the new streetlights?

Most of the current streetlights have 100-watt lamps. These will be replaced with 25-watt LED fixtures, which represent a 75%

drop in energy use. A few higher wattage LED lights of 42-watts will be installed along Ocean Boulevard.

How much will be saved on electricity costs?

In 2015, Jenness Beach paid about \$16,500 to Eversource for its streetlights. This annual cost will drop by 55-80%.

How much will the project cost and what is the payback time?

The project cost is expected to be about \$30,000. Payback time is under 3 years.

A warrant article for \$30,000 was passed at the annual Precinct meeting in April 2016. A \$100 per fixture incentive is available through Eversource. Low-interest financing may also be pursued, in which the loan payments are structured to be paid back with the Precinct's electricity cost savings each month.

Who owns the current streetlights?

Streetlights are owned by Eversource, and the Precinct pays a monthly fee similar to a lease. The monthly cost is based on the type and wattage of the streetlight, along with the number of hours that the streetlight is on that month. This cost includes maintenance and re-lamping of the fixtures.

Who will own the new streetlights?

The new LED streetlights will be owned by the Precinct, and the Precinct will be responsible for maintenance. However, the LED fixtures chosen are expected to last at least 23 years, and they have a 10-year warranty, so maintenance is expected to be minimal.

When will the streetlights be replaced?

Installation is expected to take place early Spring 2017.

Who is responsible for the Streetlight Project?

The Streetlight Committee was formed at the Jenness Beach Precinct annual meeting in April 2015. The Committee is composed of Randy Crapo, Commissioner; Sam Winebaum and Jon Menes, Jenness Beach residents; and Michele Sopher, Rye Energy Committee. Sopher Energy Analysis and Design has been hired as a technical consultant. The Committee has been working in cooperation with the NHDOT Lighting Engineer, the Rye Police Department, and Eversource.

What criteria are being used to design the streetlight plan?

Standards from the Illuminating Engineering Society, information from the International Dark Sky Association, and guides from the Municipal Solid-State Streetlighting Consortium have informed the Committee's work, along with the feedback from the Rye Police, the NHDOT, and Eversource mentioned above.

The main reason in Jenness Beach for streetlighting is for **traffic and pedestrian SAFETY**. All streetlights will be maintained at intersections, sharp curves in the road, and areas of high traffic and pedestrian activity, such as on Ocean Boulevard. While many people think that streetlights make their property more secure, several studies have shown that lights that are on all night do not reduce crime.

The Streetlight Committee has worked hard to come up with a lighting plan that will provide sufficient and improved illumination while avoiding overlighting the Precinct. We are working in cooperation with the State of NH to coordinate the lighting planned for the new Jenness Beach Bathhouse with our

project. The health and safety of the area residents – human, wildlife, and sealife - are the utmost priority for the Streetlight Committee.

Will any new streetlights be added?

Yes, new streetlights are planned to illuminate the three crosswalks on Ocean Boulevard in the Jenness Beach area and the Pine Road/Cable Road intersection.

Will any streetlights be removed?

Yes, any streetlights on straight sections of road with low traffic volume are not needed, and they contribute to light pollution and high energy bills in the Precinct. The streetlights planned for permanent removal will be marked by placing a yellow ribbon around the pole. A card will be attached to the pole identifying the streetlight and displaying an email address for public comment.

How can I keep my property safe if my neighboring streetlight will be removed?

One of the most effective modern deterrents to crime is to install a light with a motion detector on your property. The lights can be purchased for as low as \$15. For a more suggestions on how best to keep your property safe, contact Police Chief Kevin Walsh.

Will I have a chance to see a sample of the new lights before they are all replaced?

Yes, two different sample lights were recently installed, on the pole at the corner of Perkins Road and Ocean Boulevard and on the pole just south of the Jenness Beach Bathhouse. A Streetlight Social will be held at the State Park on **Wednesday, July 13th at 9 p.m.** This is an opportunity to see representative new lights and ask questions of the Streetlight Committee.

Will there be a Public Comment period?

Yes, the Public Comment period will be from June 28th to August 31st. Public comments should be directed to this email address: jennessbeachstreetlights@gmail.com. Only comments that include the sender's name and address will be considered.

What will the new streetlights look like?

See photo on right.



What will happen with the old streetlights?

The Streetlight Committee is working with the Rye Recycling Center to properly recycle and dispose of the old streetlight fixtures and ballasts, which contain mercury and lead.

Where can I find more information about this project?

Contact a Committee member, see the Jenness Beach page on the Town of Rye website, or ask a question through jennessbeachstreetlights@gmail.com.