



May 20, 2015

Ms. Luly Massaro
Clerk of the Commission
89 Jefferson Boulevard
Warwick, RI 02888

In Re: Pascoag Utility District Tariff Advice
Docket No. 4563

Dear Ms. Massaro:

On behalf of the Pascoag Utility District ("Pascoag" or the "District"), I herewith file an original and nine copies of Pascoag's Responses to Commission's Data Requests Directed to Pascoag Utility District, dated May 20, 2015.

If you have any questions, please do not hesitate to contact me.

Very Truly Yours,

Harle Round
Customer Service Supervisor/ DSM Coordinator

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION**

IN RE: PASCOAG UTILITY DISTRICT :
TARIFF ADVICE : **DOCKET NO. 4563**

PASCOAG'S REPOSSES TO COMMISSION DATA REQUESTS DIRECTED TO
PASCOAG UTILITY DISTRICT

May 20, 2015

1. Please provide a detailed explanation of why Pascoag is adding the 120 W and 240 W LED floodlights, and what, if anything, those LED lights will replace?

Answer provided by Harle Round:

As part of the Rhode Island Regional Green House Gas Initiative (RGGI), Pascoag was awarded a grant of \$62,500 to replace 250 HPS Street lights with LED street lights. As part of this grant project the District purchased a total of 11 LED floodlights comprised of 7 -120 watt LED floodlights and 4 - 240 W LED floodlights. The 120 W LED floodlights were used to replace 7 - 250 W HPS floodlights and the 240 W LED floodlights were used to replace 4 - 400 W HPS floodlights.

2. Please identify the benefits of LED lights and any benefits Pascoag's customers will receive from replacement.

Answer provided by Harle Round:

One of the biggest benefits of the LED Flood lights is the reduction in kWh usage and the cost to consumers. For each 250W HPS floodlight that is replaced with a 120W Led floodlight, it will result in reduction of 704 kWh per year per fixture and a deduction in cost to the consumer of \$33.96 annually. For every 400W HPS floodlight that is replaced with a 240W LED floodlight, it will result in reduction of 928 kWh annually and a reduction in cost of \$36.12 annually.

The other benefits include the expected lives of the LED floodlights which are rated for 100,000 hours, or more than 20 years. This will reduce the maintenance cost. The HPS floodlights that we currently have only have a useful life of 3-4 years and the bulbs are constantly burning out. The lighting from the new LED floodlights will greatly improve the lighting though a greater CCT of 4,000 Kelvin which produces a bright white to bluish-white light, and the CRI of 70 allows for better color rendering

which allows the colors to seem more natural and more comfortable to the human eye.

The District plans to replace more floodlights in the future as capital budgets allow. We are currently working with the Energy Office regarding RGGI funds in hopes of receiving another grant for LED Street lighting this year. The District has 86-250W HPS flood lights and 99-400W HPS floodlights that we would like to replace with LED floodlight fixtures.