



EMERGING TECHNOLOGIES SHOWCASE WEBINAR: LED PARKING AND AREA LIGHTING

August 22, 2012

Question and Answer session

Q: How difficult is it to replace HID parking lot pole fixtures with LED? Are there kits available?

A: It depends on the LED product and the housing that you're trying to put it in. It can be a fairly easy process. There are manufacturers who are making retrofit kits that will allow customers to remove the lamp, ballast, and sometimes reflector from MH or HID and replace with LED.

Q: Can the LED replacement usually be done on a one for one basis? Are most upgrades including occupancy sensors?

A: It's important to carefully select an LED product to replace an existing one. Try to Model expected lighting performance using one of the many software tools. Many manufacturers and manufacturer reps can do that for you. Many existing lights can be replaced successfully on a one-to-one basis with LED. The light distribution and lumen output need to be appropriate.

Q: Is there a service territory for BPA incentives?

A: BPA's service territory is all public utilities. Exceptions (public utilities without BPA incentives) are Seattle City Light, Springfield PUD, Eugene Water & Electric Board (EWEB), Tacoma Power, and Snohomish PUD. These five run their own lighting programs with incentives. They each have their own lighting calculator. Additionally, each of the investor-owned utilities have their own lighting calculator.

Go to <http://www.northwest-lighting.org> for more information on public utility lighting efficiency incentive programs. You can find a local incentive program by clicking on the resources tab, then the tool called "Utility Incentive Program Locator".

Q: Does Seattle City Light Purchase electricity from BPA?

A: As above, the answer is yes and no. SCL does purchase from BPA. But they have their own incentive plan.

Q: Is the Visual and AG132 Software available for download?

A: Both are available for download. Visual software is free, while AG132 costs money. Lighting designers, manufacturer reps, and other lighting professionals will have access to that type of software.

Q: Any improvements on the sensor technology? I think Wattstopper recently introduced a new one that works at 40 feet. I have experienced problems with bi-level sensors.

A: Yes, that is accurate. The bi-level operation is a great fit, but does require proper tuning and selection. They are working on improving occupancy sensor technology, specifically for use in outdoor. The September 19, 2012 Emerging Technology Showcase webinar will focus on Image-Processing Occupancy Sensors.

Q: Can we get the white paper/info on Walmarts parking lot retrofit with a 2 yr payback?

A: The complete report for the DOE GATEWAY Demonstration at the Walmart store in Leavenworth Kansas can be found at the following link:

http://apps1.eere.energy.gov/buildings/publications/pdfs/ssl/gateway_walmart.pdf

Q: Did those payback periods include utility incentives in the calculation?

A: Utility incentives were not included in the payback calculations for the TJ Maxx DOE GATEWAY Demonstration project.

Q: How did the Nike MH lumen output compare to the LED?

A: The lighting performance of the baseline MH and new LED lighting systems was not measured in this study. The full Dept. of Energy presentation can be found at the following link:

http://apps1.eere.energy.gov/buildings/publications/pdfs/ssl/ns/sullivan_outdoors_sandiego2011.pdf

Q: Apart from Seattle, what cities are considering LED street lights?

A:

- City of Salem just put in 100 LED for the River Front Park.
- City of Klamath Falls Oregon Just put in new led street lights.
- Intel has changed out over 500 parking lights to LED.
- L.A. in the middle of a large project.
- City of San Jose will in the future (it's in city charter).
- In the Portland area, you can see before and after an LED Conversion. Stoner Electric is replacing all pole lights at Bridgeport Village, Nyberg Woods and Cascade Station shopping centers in September.
- DOE's Municipal SSL Street Lighting Consortium has information on cities that are installing LED street lighting: <http://www1.eere.energy.gov/buildings/ssl/consortium.html>.

Note regarding BPA incentives:

BPA is encouraging and accepting more LED proposals as non-standard measures, even if they fit that F21 measure description. When it makes sense BPA is allowing certain proposals for LED parking lot, street, and wall packs to run as non-standard measures. This means that BPA is able to offer much more than just \$50 / fixture. For non-standards BPA pays on \$0.15 / kWh. The prescriptive incentives on version 3.0 will be much more dialed in (per TAG advice) which will help with this situation.