

Minutes

Energy Management Working Group Meeting

Redondo Beach – Main Library

3/2/2016

11am – 1pm

Attendees

Cities: Rob Osborne (Redondo Beach), Mike Klein (Redondo Beach), Grace Huizar (Lawndale), Doug Krauss (Hawthorne), Leza Mikhail (RPV), Reata Kulscar (Carson), Julie Hegvold (El Segundo), Rosemary Lockow (RH), Deryl Lloyd (Gardena), Laura MacMorran (Lomita)

SBCCOG: Lena Luna, Amanda Maki

GSE Solutions: Greg Stevens

SCE: Scot Mann

SoCalGas: Ashley Snyder

Steve Ferguson (Siemens); Kevin Sakamoto (South Coast Lighting); Bill Hein (NLS Lighting)

1. Welcome & Introductions

Mike Klein gave a brief introduction about City of Redondo Beach's experience with city lighting projects. The City is replacing many interior lights with LED tubes, especially as prices continue to drop. The City is also replacing whole lighting fixtures with LEDs, such as at the police department. The police department has seen the difference with the new lights and has appreciated the increase in lighting for safety reasons. The City is testing LED flood lights near the beach that will replace the current metal halides. The new bike path has all LED lights. Positive results from the projects include reduction in electricity costs and load reductions.

2. Energy Projects Highlights

Greg Stevens shared updates on city projects:

A 4 million kwh savings is estimated this year from projects in pipeline.

Carson – retrofitting streetlights; retrofitting park lighting

Hermosa Beach – multiple-facility lighting project almost completed

Inglewood – well pump project; streetlight LED project, 1,500 remaining streetlights that city will want to replace

Manhattan Beach – outdoor court lighting

Redondo Beach – library parking lighting

RPV – city-owned streetlight LED project at intersections

Torrance – interior LED lighting project throughout city hall, fire department, police station, project authorization submitted on 2/29/16; plan to utilize OBF

Other updates from cities:

RPV – new ordinance for non-residential, exterior lighting recently adopted and was well received; ordinance includes requirements for max lumen, footcandles, shielding, Kelvin, and other measures that impacts glare; ordinance is for replacement of light; ordinance was developed due to an influx of development in 2008-2009, which was constructed in 2013-14, and city had difficulty telling developers what kind of lighting to install; city will be looking at residential next; ordinance can be found on city website

SoCalGas:

City asked about getting more information for potential CNG fueling station projects – Ashley Snyder will get contact information for the account manager in charge of CNG fueling stations to interested cities; Lena Luna also mentioned that the California Energy Commission may have grant fund available

Greg Stevens mentioned that SCE is no longer incentivizing replacing LED troffers (entire fixtures), but will soon incentivize LED tubes

City asked “How do you pick the right lighting fixture when there are many options available?” – City can go on a lighting tour with a manufacturer and/or lighting agency to see examples of lights already installed

3. Presentation: Outdoor Energy Efficient Lighting – Kevin Sakamoto, South Coast Lighting; Bill Hein, National Lighting Solutions (NLS)

A lighting agency works with multiple manufacturers and can offer a complete package.

HID vs LED – LEDs are becoming more efficient and cheaper very quickly

LEDs result in energy savings, require less maintenance, have a greater optic control

When looking at LEDs optics, the BUG rating can be very helpful

BUG stands for: backlight, uplight, glare, and is commonly found on spec sheets

Quality and Warranty of LEDs

L70 is the number of hours before the light emits 70% of initial output

DLC/LED Lighting Facts found online: www.designlights.org; www.lightingfacts.com

Manufacturer Delivery and Performance – important to test lights and do research before purchasing and installing

Ease of Procurement – City can work directly with a lighting agency to discuss best options for a lighting project

Footcandles – best practice of a lighting's footcandles is dependent on the use; best practice recommendation is determined by Illuminating Engineer Society (IES)

Motion Sensors – available in different types

There are sensors that switch from off to on or there are sensors that switch from dimmed to on

4. Lunch
5. Redondo Beach Main Library Tour – Mike Klein, Deputy Public Works Director
6. Next Meeting – May 4, 2016