

Minutes

Energy Management Working Group Meeting

SBESC office

4/27/2016

11am – 1pm

Attendees

Cities: Julie Hegvold (El Segundo), Grace Huizar (Lawndale), John Drakodaidis (Torrance), Deryl Lloyd (Gardena), Mike Duran (Gardena), Reata Kulcsar (Carson), Sean Roberts (Manhattan Beach), Kristy Morris (Hermosa Beach), Mark Hardison (Hawthorne), Ted Semaan (Redondo Beach), Mike Klein (Redondo Beach)

SBCCOG: Jacki Bacharach, Lena Luna, Amanda Maki

GSE Solutions: Greg Stevens

SCE: Scot Mann

SoCalGas: Ashley Snyder

Steve Ferguson (Siemens); Kevin Sakamoto, Gary Keller (South Coast Lighting); David Fried (Visionaire)

1. Welcome & Introductions

2. Energy Projects Highlights

Greg Stevens shared updates on city projects:

Carson – retrofitting exterior lighting at parks; streetlight retrofits- focusing on city-owned

Gardena – lighting projects at park and gymnasium – high-bay and low-bay LED fixtures

Greg Stevens noted that SCE will be ending incentives for these types of LEDs in June; incentive is becoming midstream

Hermosa Beach – streetlight and exterior park lighting projects

Inglewood – pump and streetlight projects

Torrance – interior lighting retrofits at three buildings (city hall, library, police department)

Greg Stevens noted that SCE incentives for LED troffers will be ending, but will still have LED retrofit kits

Other updates from cities:

Torrance – building new transit center

SoCalGas:

Carson – boiler replacement

SoCalGas incentive kicker – 50% increase

City asked about installing CNG station – SoCalGas does not have any incentive for CNG stations

3. Presentation: Steve Ferguson, Siemens, Smart Cities

Smart and sustainable city – urban development vision to integrate multiple information and communication technology (ICT) solutions in a secure fashion to manage a city's assets

Looks at the whole city and systems – streets, buildings, alternative energy, water/wastewater

Outcomes – resiliency, sustainability, economic improvement

Energy Service Company (ESCO) – focuses on all phases of energy project and provides many types of services

CA 4217 – designed to accelerate energy and water infrastructure projects; City able to work directly with ESCO, without RFP

Pros – speed, reduced cost, internal momentum

Project Bundling Benefits – for a better return on investment (ROI)

Streetlight node – replaces existing photocell

City wide wi-fi network – private or public wi-fi; “hot spot” range 100 ft; Gps and digital location

Bank-grade encryption; (AMI) Smart water meter applicability

Ready for mobile carriers – revenue generation from carriers

Energy and environmental – demand response; photocell features; advanced lighting control; sub-metering at each pole; utility grade meter; data reporting on air quality; temp monitor; chemical detection; seismic detection

Public Safety – 360 cameras- emergency response; gunshot and vandalism detection; microphones; crowd detection and counting

Summary:

Fully integrated networking solution – single node device

Mountable in 30 seconds

Solution contained in single node device

No provisioning or setup required

4. Lunch

5. Special Lighting Presentation about Energy Efficient Outdoor and Field Lighting

The outdoor, energy efficient, field lighting presentations are in response to cities' expressed interest in this technology.

#1 Speaker: David Fried, Visionaire

Advantages of LED in comparison to Metal Halide –

Increased life expectancy: Metal Halides about 12,000hrs and LEDs about 75,000-100,000hrs

Instant On/off

Energy savings and rebates – on DLC list – 40-70% savings

Programmable control system with dimming

Improved light color for maximum performance at 5,000K; pulse start Metal Halides goes up to 4,000K

Light-weight, architecturally appealing fixtures

5 and 10 year warranties for LEDs; Metal Halides are usually about 2 years

Glare control optics

Rebates – many available for lights and controls

Controls – step dimming/motion/photocell; can be controlled from device on -site, or computer off-site

Typical photometrics – need to determine footcandles across a field

IES standards – recommended footcandles typically needed for sports fields

#2 Speaker: Kevin Sakamoto, Gary Keller, South Coast Lighting

Lighting agency – in partnership with a variety of manufacturers

Example projects: StubHub center – tested out different lights; will be working with South Coast Lighting

Works with cities – especially on streetlights, parks

Streetlights – design a fixture according to wattage

Working with CalTrans replacing streetlights with LEDs (Leotech)

Failure rate of LEDs are very low, usually 1%

Lighting agency can give a price for entire project: Fixture, pole, foundation, installation

Q/A

For security reasons, what is recommended lighting levels? For example, when using the lights for security cameras.

5,000K preferred for highest clarity, especially for security cameras or sports fields.

What is the usual retrofit used in city park lighting?

City parks often replace 1,000W Metal Halides with 4-500W LEDs