

South Bay Cities Energy Efficiency Program Quarterly Update

**Board of Directors Meeting
March 23, 2017**

Presented by the Energy Efficiency Team:

Greg Stevens

Contract Energy Engineer
GSE Solutions







Overview

- SCE ELP Tier Level Update
- Energy Savings Impact Since 2010
- Municipal Energy Project Pipeline
- SCE Direct Install Program
- Street Lights



SCE Energy Leader Partnership (ELP) Program

- Provides South Bay Cities with **financial, technical** and **marketing** support to implement **Energy Efficiency** and **Demand Response**.
- City Tier Levels – Beginning Q1 2017
 - Platinum  (**\$0.12/kWh incentive**) – **Hawthorne**, Lawndale, Lomita, Manhattan Beach
 - Gold  (**\$0.09/kWh incentive**) - Carson, El Segundo, **Gardena, Hermosa Beach, Inglewood, Palos Verdes Estates**, Rancho Palos Verdes, **Rolling Hills Estates, Redondo Beach, Torrance**
 - Silver  (**\$0.06/kWh incentive**) - **Rolling Hills**
 - Valued  (**\$0.03/kWh incentive**)
- Cities Likely Moving Up in 2017
 - Platinum  Carson, Gardena, Hermosa Beach, Inglewood

Energy Savings Impact Since 2010

City / District	2010 - Present Achieved Savings / Incentives				
	Annual Savings kWh	Annual Savings Therms	Annual GHG Emissions (tons)	Incentive / DI Cost Savings (\$)	Annual Energy Cost Savings (\$)
Carson	717,796	3,823	575	\$108,616	\$103,515
El Segundo	187,071	0	144	\$46,725	\$31,564
Gardena	476,921	0	368	\$138,949	\$55,867
Hawthorne	389,868	5,004	328	\$130,221	\$71,892
Hermosa Beach	176,733	0	136	\$85,357	\$26,540
Inglewood	1,528,002	0	1,179	\$286,954	\$206,084
Lawndale	128,020	6,832	136	\$43,355	\$34,433
Lomita	159,281	13	123	\$22,350	\$21,147
Manhattan Beach	1,034,689	0	798	\$145,255	\$117,437
Palos Verdes Estates	70,236	0	54	\$34,376	\$9,927
Rancho Palos Verdes	51,689	0	40	\$41,238	\$11,051
Redondo Beach	787,361	467	610	\$165,066	\$96,834
Rolling Hills Estates	47,374	0	37	\$15,082	\$8,775
City of Rolling Hills	12,050	0	9	\$7,111	\$2,465
Torrance	1,693,174	23,699	1,437	\$343,338	\$276,200
Hawthorne USD	0	941	5	\$1,938	\$922
Inglewood USD	0	3,876	21	\$6,000	\$3,798
Manhattan Beach USD	0	4,385	24	\$5,978	\$4,297
PV USD	0	91,178	503	\$51,042	\$89,354
Redondo Beach USD	0	314	2	\$942	\$308
Torrance USD	0	18,857	104	\$21,858	\$18,479
West Basin MWD	0	911	5	\$990	\$893
Total	7,460,265	160,299	6,640	\$1,702,742	\$1,191,783

Municipal Energy Project Pipeline

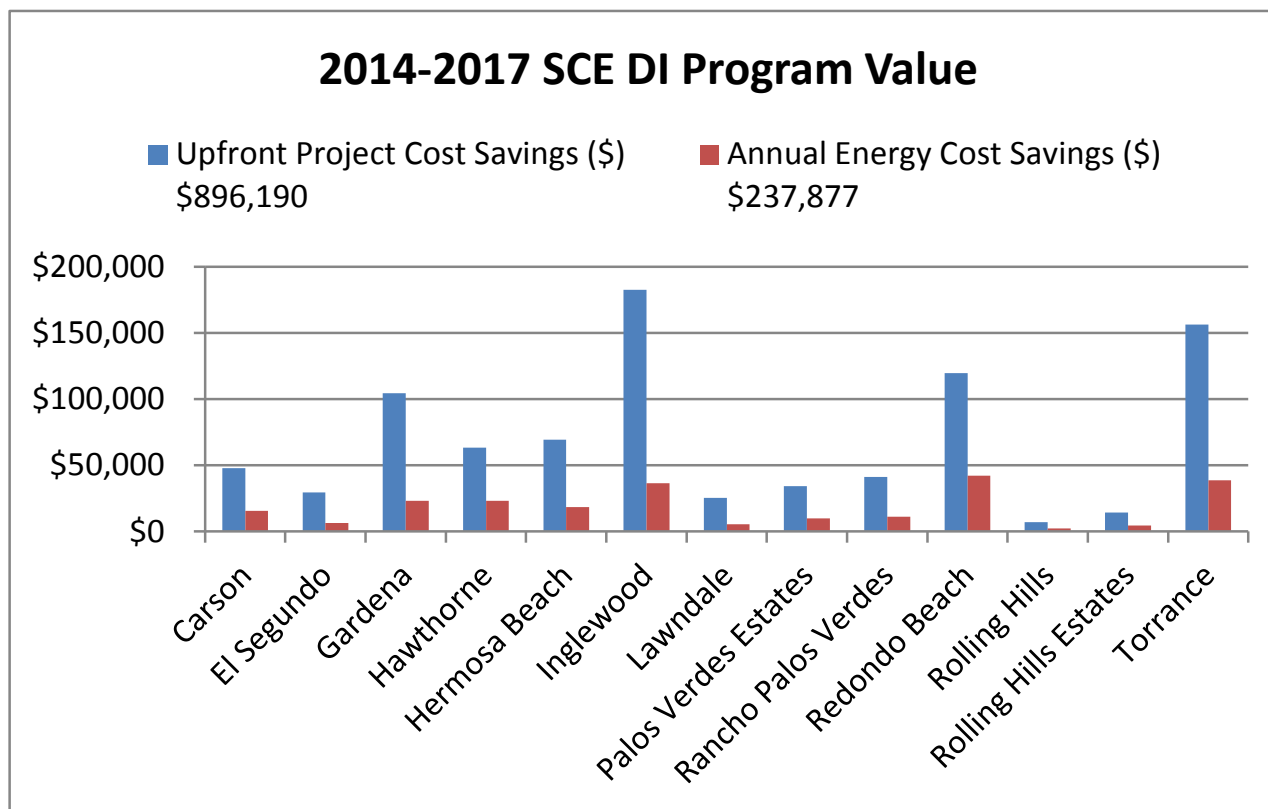
City	Facility	EEMs	Est kWh Svgs	Est therms Svgs	Est Incentives (\$)	Est Cost Savings (\$)
Carson	Carson Park	Lighting/Pool Boiler/Water Heater/VFD	28,578	7,040	\$13,185	\$10,986
Carson	Hemingway Park	Pool pump VFD	51,758	-	\$11,646	\$8,421
Carson	City-owned Street Lights (Phase 1)	LED lighting	78,720	-	\$38,144	\$6,564
Carson	City-owned Street Lights (Phase 2)	LED lighting	590,882	-	\$118,176	\$49,274
Carson	Dolphin Park	Exterior lighting	96,907	-	\$17,907	\$11,221
Carson	Community Parks	Exterior / Interior lighting	688,002	-	\$108,758	\$71,259
Gardena	Rush Gym+Rowley Park	Interior/Exterior lighting	284,534	-	\$24,626	\$45,526
Gardena	Mas Fukai Park	Interior/Exterior lighting	78,125	-	\$13,281	\$12,500
Gardena	Transit Center	LED lighting	52,429	-	\$8,913	\$8,389
Hawthorne	Police Department	LED lighting	50,320	-	\$11,284	\$8,051
Hermosa Beach	Multiple Facilities	Exterior/Interior Lighting	316,925	-	\$44,798	\$66,922
Hermosa Beach	Pier	Exterior Lighting	22,677	-	\$3,175	\$1,543

Municipal Energy Project Pipeline (cont'd)

City	Facility	EEMs	Est kWh Svgs	Est therms Svgs	Est Incentives (\$)	Est Cost Savings (\$)
Inglewood	Street Lights (Phase 2-LS2)	LED lighting	852,689	-	\$450,079	\$96,073
Inglewood	City Hall	Elevator motor-generator set	121,900	-	\$26,208	\$19,504
Inglewood	City Hall	Chiller VFD / HVAC Controls	291,870	11,035.0	\$115,022	\$57,513
Manhattan Beach	Live Oak Park, El Porto Parking Lot, Manhattan Heights Park	Exterior LED Lighting	62,825	-	\$16,335	\$22,282
Rancho Palos Verdes	Street lights (LS-2)	LED lighting	38,269	-	\$6,506	\$3,568
Redondo Beach	Decorative street lights Catalina Ave	LED lighting	123,820	-	\$21,049	\$12,382
Torrance	Toyota Meeting Hall	LED lighting	16,741	-	\$4,604	\$2,679
Torrance	Wilson Park Gym	Interior LED lighting	26,718	-	\$10,482	\$4,716
Torrance	Transit Center	Exterior / Interior LED lighting	125,300	-	\$21,301	\$15,708
Torrance	City Hall, Library, PD	LED lighting	837,954	-	\$164,370	\$98,711
Torrance	Plunge Pool	VFD and Pump Motor	172,003	-	\$29,240	\$18,920
Torrance	Street Lights (LS-2, LS-3)	LED lighting	224,676	-	\$38,195	\$20,221
		Total	5,234,622	18,075	\$1,317,284	\$672,933

SCE Direct Install Program

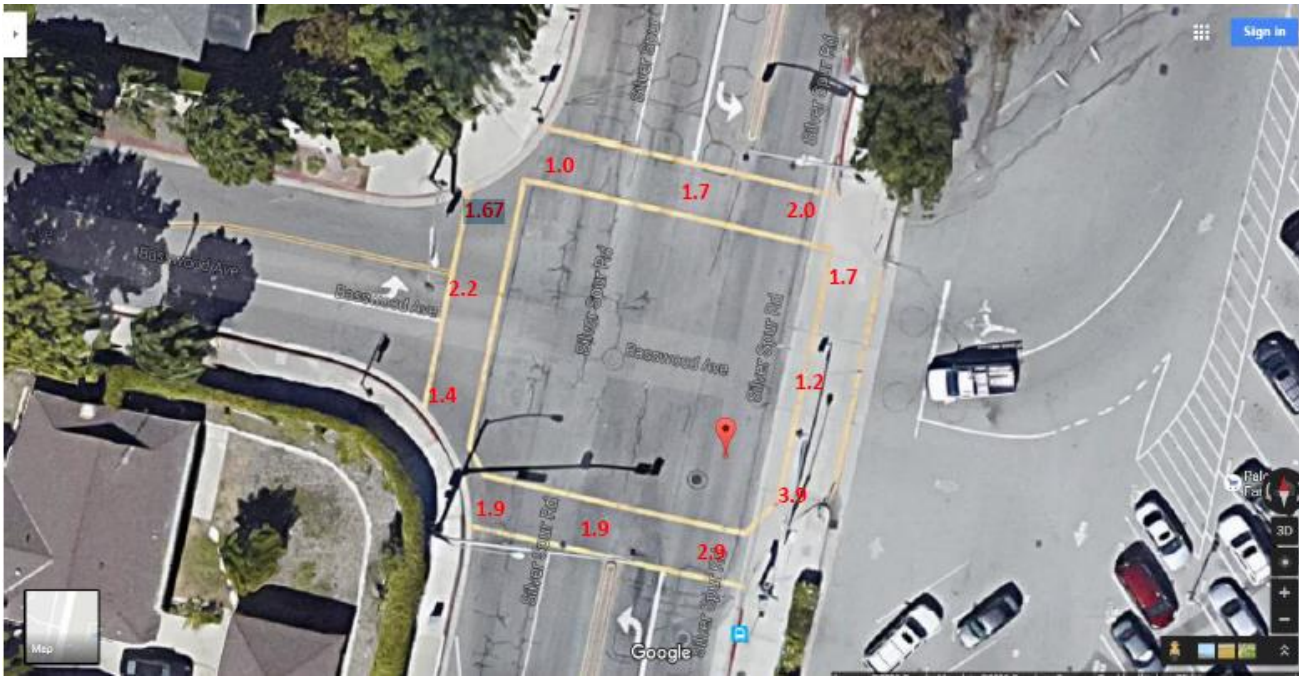
- **FREE Equipment and Installation for Qualified Measures**
 - Current program offers FREE LED tubes and high-bay / low-bay LED fixtures.
 - Work performed by SCE qualified contractors
 - 15 South Bay cities participated in program from 2014 - 2017



Street Lights

- SCE recently announced LED street light incentive will expire at the end of 2017.
- SBCCOG is working with cities to submit incentive applications for city-owned street lights before deadline.
- Timing of expiring incentive will negatively impact financial gain for those cities considering to purchase utility-owned street lights.
- Over the next couple weeks SBCCOG will be reaching out to those cities – Gardena, Hermosa Beach, Manhattan Beach, Rancho Palos Verdes, Torrance.
- Create letter campaign to CPUC advising them of the adverse affect SCE's decision will have on these cities.

Street Lights (cont'd)



Project Description:
Purchase utility-owned street lights and retrofit with LEDs.

Pole Purchase Price: \$369 per pole

LED Installed Costs: \$463 per fixture

Potential SCE Incentive: \$171 per fixture

Annual Cost Savings: \$127,880

Simple Payback w/ Incentive: 9 years

Simple Payback w/o Incentive: 12 years

QUESTIONS?

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Greg Stevens
Phone: 760-214-6805
Email: gstevens@gse-solutions.com



Visit our SBCCOG energy management website at:
<http://www.southbaycities.org/programs/energy-management>