

South Bay Cities Energy Efficiency Program Quarterly Update

**Board of Directors Meeting
May 26, 2016**

Presented by the Energy Efficiency Team:

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Overview

- SCE Energy Leader Partnership Program
- South Bay Energy Efficiency Partnership
- SCE Direct Install Program
- City Projects in the Pipeline
- On-Bill Financing (OBF)
- Energy Management Working Group (EMWG)
- Other Energy Efficiency Initiatives



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 – End Q1 2016
 - Platinum  Lawndale, Lomita, Manhattan Beach (\$0.18/kWh incentive)
 - Gold  Carson, El Segundo, Hawthorne, Inglewood, Rancho Palos Verdes, Torrance (\$0.135/kWh incentive)
 - Silver  Gardena, Hermosa Beach, Redondo Beach (\$0.09/kWh incentive)
 - Valued  Palos Verdes Estates, Rolling Hills Estates, Rolling Hills (\$0.045/kWh incentive)
- Cities Likely Moving Up in 2016
 - Gold  Gardena, Hermosa Beach, Redondo Beach
 - Platinum  Inglewood

Energy Management Working Group (EMWG)

- South Bay city staff come together and discuss challenges and successes of energy management within their city
- Peer to peer exchange to share knowledge
- SBCCOG Energy Efficiency Team, SCE, and SCG at the table with city staff
- EMWG helps to identify energy efficiency projects to ensure cities receive maximum cash incentives available
- Established in 2015

South Bay Energy Efficiency Partnership

City Energy Savings

- 2016 Project Activity
 - **510,830 kWh** savings implemented. **33.8% of 2016 goal.**
 - Currently 4,038,112 kWh in 2016 pipeline.
 - **14,224 therms** savings implemented. **142% of 2016 goal.**
 - Annual therm goal met
- Cost Savings Potential Identified
 - 12.3M kWh and 39.5k therms savings per year
 - \$2.8M cost savings per year
 - 9.7k tons GHG reduced per year
 - \$2.3M cash incentives

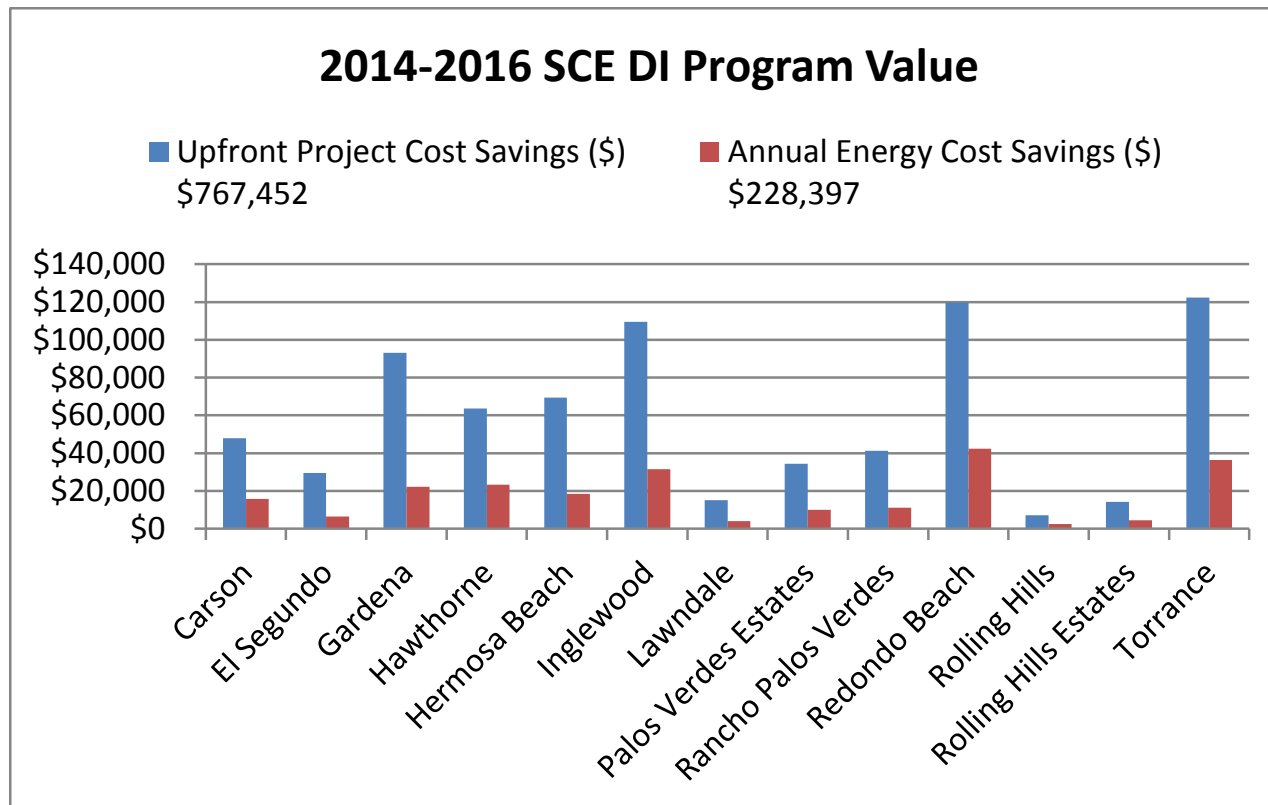
South Bay Energy Efficiency Partnership

All Partners Energy Savings 2010 to Q1 2016

City / District	2010 - Present Achieved Savings / Incentives					ELP Level
	Annual Savings kWh	Annual Savings Therms	Annual GHG Emissions (tons)	Incentive / DI Cost Savings (\$)	Annual Energy Cost Savings (\$)	
Carson	717,796	1,798	564	\$105,241	\$101,530	Gold
El Segundo	187,071	0	144	\$46,725	\$31,564	Gold
Gardena	476,921	0	368	\$138,949	\$55,867	Silver
Hawthorne	389,868	5,004	328	\$130,221	\$71,892	Gold
Hermosa Beach	170,169	0	131	\$80,121	\$25,490	Silver
Inglewood	1,528,002	0	1,179	\$286,954	\$206,084	Gold
Lawndale	122,786	6,614	131	\$38,995	\$33,383	PLATINUM
Lomita	159,281	13	123	\$22,350	\$21,147	PLATINUM
Manhattan Beach	1,034,689	0	798	\$145,255	\$117,437	PLATINUM
Palos Verdes Estates	70,236	0	54	\$34,376	\$9,927	Valued
Rancho Palos Verdes	51,689	0	40	\$41,238	\$11,051	Gold
Redondo Beach	787,361	467	610	\$165,066	\$96,834	Silver
Rolling Hills Estates	47,374	0	37	\$15,082	\$8,775	Valued
City of Rolling Hills	12,050	0	9	\$7,111	\$2,465	Valued
Torrance	1,693,174	23,699	1,437	\$343,338	\$276,200	Gold
Hawthorne USD	0	941	5	\$1,938	\$922	N/A
Inglewood USD	0	3,876	21	\$6,000	\$3,798	
Manhattan Beach USD	0	4,385	24	\$5,978	\$4,297	
PV USD	0	84,845	468	\$43,298	\$83,148	
Redondo Beach USD	0	314	2	\$942	\$308	
Torrance USD	0	13,065	72	\$18,458	\$12,804	
West Basin MWD	0	911	5	\$990	\$893	
Total	7,448,467	145,932	6,552	\$1,678,626	\$1,175,816	

SCE Direct Install Program

- **FREE Equipment and Installation for Qualified Measures**
 - High efficiency fluorescents, motion sensors, screw-in LEDs, Plug load occupancy sensor control.
 - Work performed by SCE qualified contractors
 - 13 South Bay cities participated in program from 2014 - 2016



City Projects in the Pipeline - 1 of 2

PIPELINE TOTALS	Estimated kWh savings	Estimated Therm Savings	Estimated Incentive (\$)	Estimated Savings (\$)
	4,362,133	7,040	\$1,087,742	\$524,474

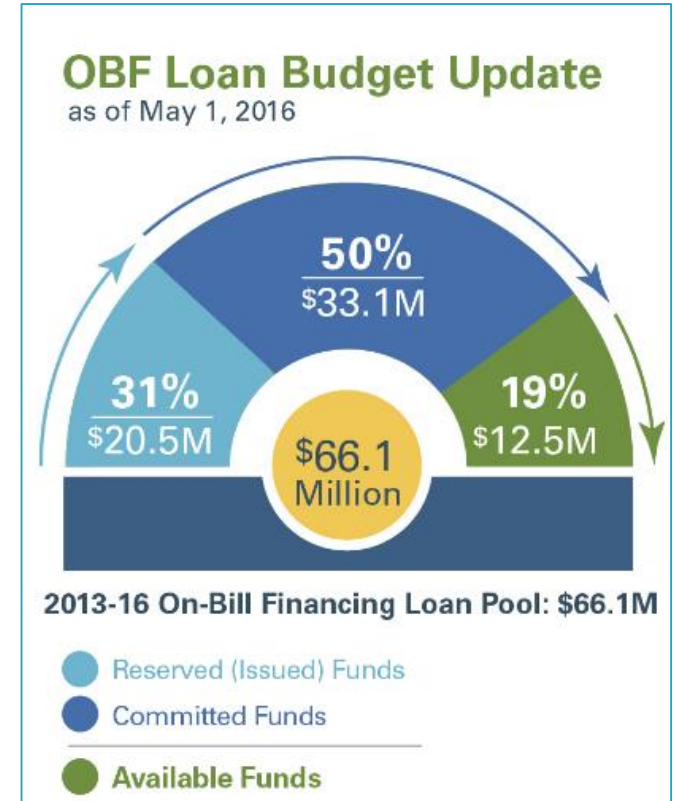
City	Energy Efficiency Measures (EEMs)	Facility	Estimated kWh savings	Estimated Therm Savings	Estimated Incentive (\$)	Estimated Savings (\$)
Carson	Exterior & Interior Lighting Pool Boiler Water Heater Variable Frequency Drive (VFD)	Carson Park Hemingway Park	56,498	7,040	\$19,187	\$15,528
Carson	Exterior Lighting	Dolphin Park	96,907	n/a	\$17,907	\$11,221
Carson	Exterior & Interior Lighting	Community Parks	688,002	n/a	\$108,758	\$71,259
Carson	LED Lighting	City-Owned Streetlights	669,602	n/a	\$133,920	\$64,951
Gardena	Exterior & Interior Lighting	Rush Gym Human Services Mas Fukai Park	113,600	n/a	\$19,312	\$18,176
Hermosa Beach	Exterior & Interior Lighting	Multiple Facilities	367,088	n/a	\$44,859	\$51,524
Inglewood	LED Lighting	City-Owned Streetlights	852,689	n/a	\$450,079	\$96,073
Inglewood	Elevator Motor-Generator Set	City Hall	78,950	n/a	\$16,974	\$12,632
Inglewood	Pump VFD	Well Pump 6	54,812	n/a	\$10,281	\$5,481

City Projects in the Pipeline – 2 of 2

City	Energy Efficiency Measures (EEMs)	Facility	Estimated kWh savings	Estimated Therm Savings	Estimated Incentive (\$)	Estimated Savings (\$)
Manhattan Beach	Exterior LED Lighting	Live Oak Park El Porto Parking Lot Manhattan Heights Park	62,825	n/a	\$16,335	\$22,282
Rancho Palos Verdes	LED Lighting	City-Owned Streetlights	38,269	n/a	\$6,506	\$3,568
Redondo Beach	LED Lighting	Library Parking Structure	120,916	n/a	\$18,230	\$13,722
Torrance	LED Lighting	City Hall Library Police Department	837,954	n/a	\$164,370	\$98,711
Torrance	Interior LED Lighting	Wilson Park Gym	26,718	n/a	\$10,482	\$4,716
Torrance	VFD Pump Motor	Plunge Pool	172,003	n/a	\$29,240	\$18,920
Torrance	Exterior & Interior LED Lighting	Transit Center	125,300	n/a	\$21,301	\$15,708

On-Bill Financing (OBF)

- Several Cities Participating in OBF – Carson, Gardena, Hermosa Beach, Inglewood
 - Fund qualified energy efficiency projects (gas / electric) at **zero interest** and with **no fees**
 - City repays SCG or SCE in monthly installments added as a line item on the City's utility bill
 - Loan is **bill neutral**
 - Qualified projects must be eligible for incentives and payback in 10 years or less



Advocacy for South Bay Cities

- Addressing SCE's Energy Leader Partnership (ELP) program for smaller cities still at Valued

Other Energy Efficiency Initiatives

- Aliso Canyon gas leak and its affect on electric customers
- Interior LEDs and advanced lighting controls deliver better light at lower cost
- Streetlights provide wireless communication infrastructure
- Investigating Discount Purchase Arrangement for LED Lighting in City Parks
- SCE Upstream HVAC Program. Equipment Distributor Cost Buy-down

QUESTIONS?

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