

South Bay Cities Energy Efficiency Program Quarterly Update

**Board of Directors Meeting
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Presented by:

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Overview

- SCE ELP Tier Level Update
- Energy Savings Highlights Since 2010
- Savings per City Since 2010
- Municipal Energy Project Pipeline
- SCE / SCG Direct Install Programs
- Looking Ahead



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 Q3 2018
 - Platinum  (**\$0.12/kWh incentive**) – Hawthorne, Hermosa Beach, **Inglewood**, Lawndale, Lomita, Manhattan Beach, Palos Verdes Estates, **Rancho Palos Verdes**, **Rolling Hills Estates**,
 - Gold  (**\$0.09/kWh incentive**) – Carson, El Segundo, Gardena, Redondo Beach, Rolling Hills, Torrance
 - Silver  (**\$0.06/kWh incentive**)
 - Valued  (**\$0.03/kWh incentive**)
- Cities Moving Up in Q1 2019
 - Platinum  Carson

Energy Savings Highlights Since 2010

- Electric Savings – 10.2M kWh
- Gas Savings – 165k therms
- Utility Incentive – \$1.7M
- Direct Install Value – \$1.6M
- Annual Cost Savings – \$1.6M per year
- Annual GHG Reduction – 8,769 tons per year (equivalent to 1,703 passenger vehicles per year)

Energy Savings Impact Since 2010

City / District	2010 - Present Achieved Savings / Incentives						ELP Level
	Annual Savings kWh	Annual Savings Therms	Incentive (\$)	Direct Install Value (\$)	Annual Energy Cost Savings (\$)	Annual GHG Emissions Reduction (Tons)	
Carson	1,589,224	8,323	\$274,736	\$90,392	\$221,158	1,272	Gold
El Segundo	197,148	0	\$17,274	\$51,484	\$33,177	152	Gold
Gardena	488,599	0	\$45,734	\$118,748	\$57,735	377	Gold
Hawthorne	505,736	5,004	\$88,956	\$193,701	\$98,368	418	PLATINUM
Hermosa Beach	501,535	0	\$49,540	\$136,640	\$79,957	387	PLATINUM
Inglewood	2,363,983	0	\$612,394	\$216,498	\$309,353	1,824	PLATINUM
Lawndale	146,179	6,832	\$23,790	\$25,358	\$36,812	150	PLATINUM
Lomita	159,281	13	\$22,350	\$0	\$21,147	123	PLATINUM
Manhattan Beach	1,109,484	0	\$145,255	\$147,185	\$129,404	856	PLATINUM
Palos Verdes Estates	79,709	0	\$0	\$55,088	\$11,443	62	PLATINUM
Rancho Palos Verdes	92,273	0	\$9,075	\$81,697	\$15,944	71	PLATINUM
Redondo Beach	1,042,023	467	\$65,838	\$119,751	\$121,620	807	Gold
Rolling Hills	13,781	0	\$0	\$10,896	\$2,742	11	Gold
Rolling Hills Estates	78,180	0	\$10,979	\$29,988	\$11,994	60	PLATINUM
Torrance	1,819,942	23,699	\$220,983	\$337,605	\$296,483	1,535	Gold
Hawthorne USD	0	941	\$1,938	\$0	\$922	5	N/A
Inglewood USD	0	3,876	\$6,000	\$0	\$3,798	21	
Manhattan Beach USD	0	4,385	\$5,978	\$0	\$4,297	24	
PV USD	0	91,178	\$51,042	\$0	\$89,354	503	
Redondo Beach USD	0	314	\$942	\$0	\$308	2	
Torrance USD	0	18,857	\$21,858	\$0	\$18,479	104	
West Basin MWD	0	911	\$990	\$0	\$893	5	
Total	10,187,078	164,799	\$1,675,652	\$1,615,033	\$1,565,390	8,769	

Municipal Energy Project Pipeline

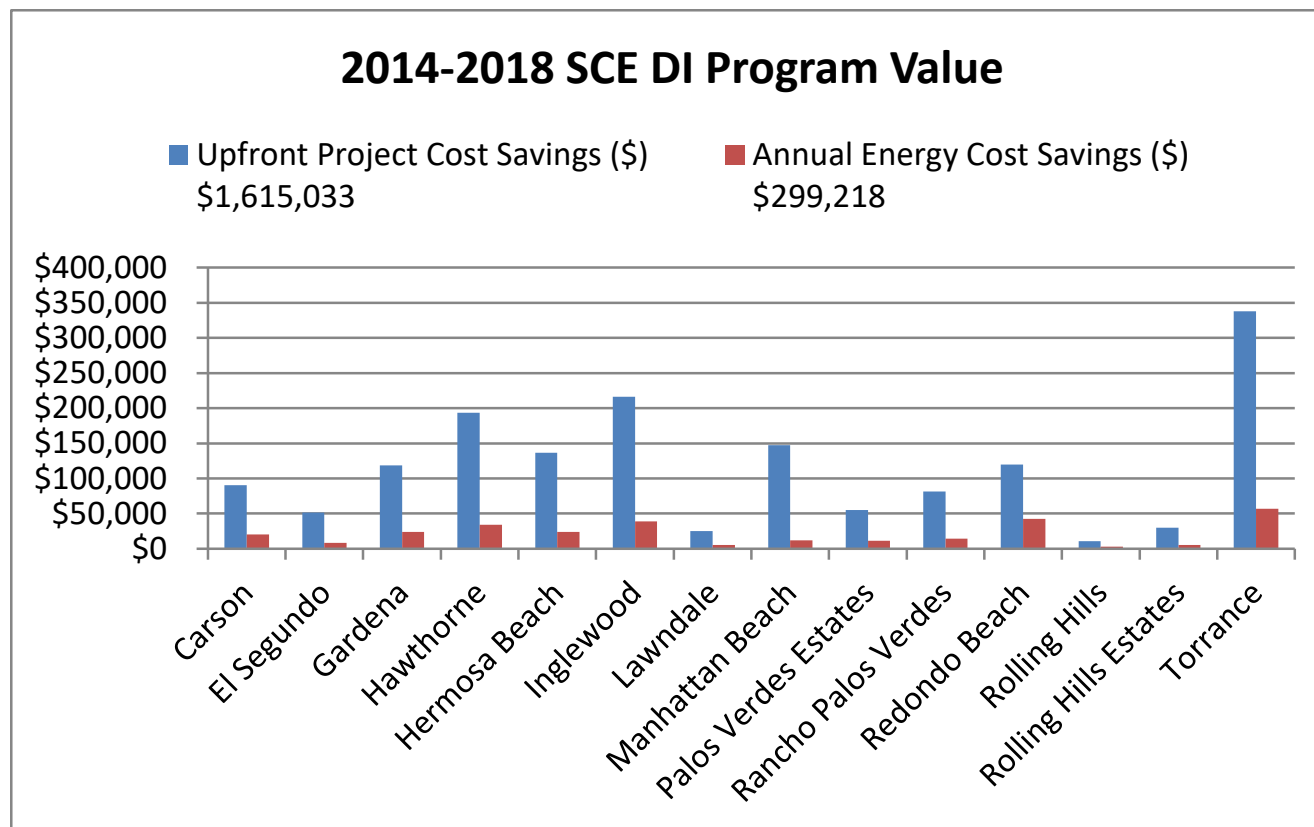
City	Facility	EEMs	Est kWh Svgs	Est therms Svgs	Est Incentives (\$)	Est Cost Savings (\$)
Carson	Hemingway Park	Pool pump VFD / Pool heaters	51,758	5,856.0	\$20,430	\$14,160
Carson	City-owned Street Lights (Phase 2)	LED lighting	588,596	-	\$234,752	\$49,083
Carson	Park Sports Lighters	Exterior LED Lighting	733,452	-	\$124,687	\$116,685
El Segundo	Parks	Exterior LED Lighting	184,396	-	\$31,347	\$41,094
Gardena	Rowley Park	Interior/Exterior LED lighting	284,534	-	\$24,626	\$45,526
Gardena	Mas Fukai Park	Interior/Exterior LED lighting	78,125	-	\$13,281	\$12,500
Hawthorne	Parks	Exterior LED Lighting	194,254	-	\$38,851	\$37,275
Hermosa Beach	Pier Ave	Exterior LED Lighting	29,574	-	\$5,915	\$5,725
Hermosa Beach	Street Lights (LS-1 E Option)	LED lighting	212,423	-	\$100,000	\$6,180
Inglewood	City Hall	Elevator motor-generator set	121,900	-	\$29,007	\$19,504
Inglewood	City Hall	Chiller VFD / HVAC Controls / Boilers	238,000	10,800.0	\$74,680	\$48,894
Inglewood	Parks	Exterior LED Lighting	477,067	-	\$81,101	\$74,005

Municipal Energy Project Pipeline (cont'd)

City	Facility	EEMs	Est kWh Svgs	Est therms Svgs	Est Incentives (\$)	Est Cost Savings (\$)
Manhattan Beach	Live Oak Park, El Porto Parking Lot, Manhattan Heights Park	Exterior LED Lighting	55,305	-	\$13,890	\$20,010
Manhattan Beach	Street lights (LS-1 to LS-2 conversion)	LED lighting	517,922	-	\$103,584	\$150,197
Manhattan Beach	Parks Sports Lighters	Exterior LED Lighting	305,597	-	\$61,119	\$89,387
Rancho Palos Verdes	Street lights (LS-1 to LS-2 conversion)	LED lighting	557,976	-	\$240,992	\$161,813
Palos Verdes Estates	Civic Center + Roadway	LED lighting	33,739	-	\$7,240	\$4,028
Redondo Beach	Decorative street lights Esplanade	LED lighting	42,311	-	\$7,193	\$3,596
Redondo Beach	Parks	LED lighting	381,513	-	\$64,857	\$76,583
Rolling Hills	Tennis Courts	LED lighting	9,000	-	-	\$7,492
Torrance	Parks	Exterior LED Lighting	841,894	-	\$143,122	\$210,022
Torrance	Toyota Meeting Hall	Interior LED lighting	16,741	-	-	\$2,679
Torrance	City Hall, Library, PD	LED lighting	837,954	-	-	\$98,711
Torrance	Plunge Pool	VFD and Pump Motor	172,003	-	\$29,240	\$18,920
Torrance	Street Lights (LS-1 E Option)	LED lighting	3,679,729	-	\$933,037	\$95,653
		Total	10,645,761	16,656	\$2,382,952	\$1,409,722

SCE / SCG Direct Install Programs

- FREE electric and gas savings measures – **LEDs, low-flow aerators, low-flow showerheads, pipe insulation and tank insulation.**
- Work performed by SCE/SCG qualified contractors.
- 14 South Bay cities participated in SCE program from 2014 – 2018.



Looking Ahead

- Have already exceeded our annual electric savings goal by 35%.
- Projected to exceed our annual gas savings goal by 660%.
- Released bulk purchase RFQ for LED lights that hopefully will save our cities thousands of \$\$\$ in procurement costs.
- SCE Midstream Point of Purchase Program with OBF funding will be renewed in 2019.
- Strategic Plan funds:
 - Continue being centralized energy manager for all our cities.
 - Research and Identify tool(s) to track and manage utility costs.
 - Energy benchmark municipal buildings.
- Meeting with 3rd Party Program Providers.
- Begin work on projects as soon as possible and complete them in a timely manner.

QUESTIONS?

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