



# **South Bay Cities Energy Efficiency Program Quarterly Update**

**SBCCOG Board of Directors Meeting  
April 25, 2013**



## Overview

1. Energy Savings Activity
2. At a Glance
3. Street Light Initiative



## Energy Savings Activity

- Annual Energy Savings Goals:
  - SCE Stretch Goal **1,710,000 kWh** and KPI **1,254,082 kWh**.
  - SCG Goal **10,000 therms**.
- Current Project Activity:
  - 1,268,040 kWh savings underway. 75% of 2013 Stretch Goal and 101% of KPI.
  - 51,599 therms savings in progress. 2-year goal exceeded.
- Numerous energy audit efforts underway:
  - Carson
  - Hermosa Beach
  - Rancho Palos Verdes
  - Torrance



**SOUTH BAY CITIES**  
COUNCIL OF GOVERNMENTS



**SOUTH BAY**  
ENVIRONMENTAL SERVICES CENTER



**City of Torrance**  
**Energy Savings At A Glance**  
**Quarterly Report**  
**Q1 2013**

**Prepared by**  
**The South Bay Environmental Services Center**  
**March 21, 2013**

### Total Annual Energy Use – All Municipal Facilities<sup>1</sup>

**Electricity = 20,570,204 kWh | Natural Gas = 307,151 Therms | Cost = \$3,926,051**

### + What's Been Done Since January 2010

Energy Saving Projects	Electric Savings Annual kWh	Natural Gas Savings Annual Therms	Incentive Cash to General Fund <sup>2</sup>	Energy Cost Savings Annual <sup>3</sup>	Annual GHG Emissions Reduction <sup>4</sup>
Completed ✓	968,885	1,543	\$133,413	\$28,746	756
In-Progress Y	-	-	-	-	-
Planned 📅	-	-	-	-	-
Identified 👁️	500,000	0	\$70,000	\$90,946	386

1. Based on 2010 utility data.

2. One-time utility incentives earned and placed directly into general fund. Values include gas & electric.

3. Annual energy savings based on achieving Title 24 standards. Actual savings could be higher. Values include gas & electric.

4. Tons CO<sub>2</sub> Emissions.



## At a Glance (cont'd)

### Completed Project Detail

- ✓ Multi-Facility 4-foot T12 Fluorescent Lighting Replacement  
271.3% ROI | \$62,203 investment | \$43,980 annual savings | \$45,994 incentive | \$8,000 SBESC service value
- ✓ Street Safety Lights Retrofit  
12.4% ROI | \$257,273 investment | \$27,779 annual savings | \$33,340 incentive | \$5,000 SBESC service value

### ✚ Opportunities for Reducing Operating Costs

Priority Facilities <sup>5</sup>	Annual Energy Expense	Electricity Consumption Annual kWh	Natural Gas Consumption Annual Therms	Fraction of City's Energy Costs <sup>6</sup>
Street Lighting <sup>7</sup>	\$1,544,474	6,327,812	0	42.0%
City Hall	\$297,189	1,671,381	74,314	7.6%
Police Department	\$231,817	1,800,258	31,960	5.9%
Civic Center Library	\$200,901	983,974	95,043	5.1%

5. Facilities in need of an energy audit, based on 2010 data.

6. For electric only facilities, % cost is based on all municipal electric accounts. Otherwise % cost is based on all municipal electric and gas accounts.

7. Includes Utility-owned street lights (LS-1 accounts) only.

### Local Governments in Action

Carson • El Segundo • Gardena • Hawthorne • Hermosa Beach • Inglewood • Lawndale • Lomita • Los Angeles • Manhattan Beach  
Palos Verdes Estates • Rancho Palos Verdes • Redondo Beach • Rolling Hills • Rolling Hills Estates • Torrance • Los Angeles County

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## Street Light Initiative

- 43,000 street lights in South Bay Cities region.
- 3 types of street lights:
  - LS-1: utility-owned, unmetered.
  - LS-2: city-owned, unmetered.
  - LS-3: city-owned, metered.
- SBESC hosted workshop on April 4<sup>th</sup>.
- Several cities are interested in pursuing either LED or Induction lighting.
- Pursuing bulk purchase opportunities.
- Estimated energy and cost savings potential for entire region over 20-yr period: 268M kWh and \$24M.

The logo for gse solutions features the company name in a white, lowercase, sans-serif font. The text is centered and partially overlaid by a cluster of overlapping, semi-transparent red circles of varying sizes, creating a dynamic, organic shape behind the letters.

# gse solutions

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