



# Comparative Energy Analysis Report

Prepared for  
LAC Parks & Rec

Prepared by  
The Energy Coalition

On Behalf of  
The Southern California Regional Energy Network Public Agency Project Delivery Programs

Date  
7/19/2020

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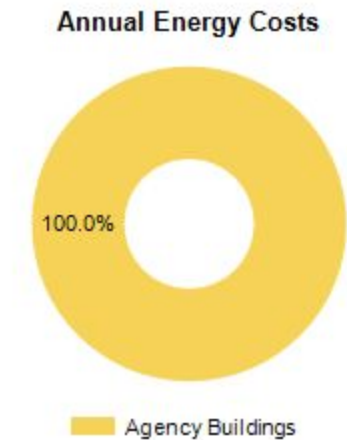
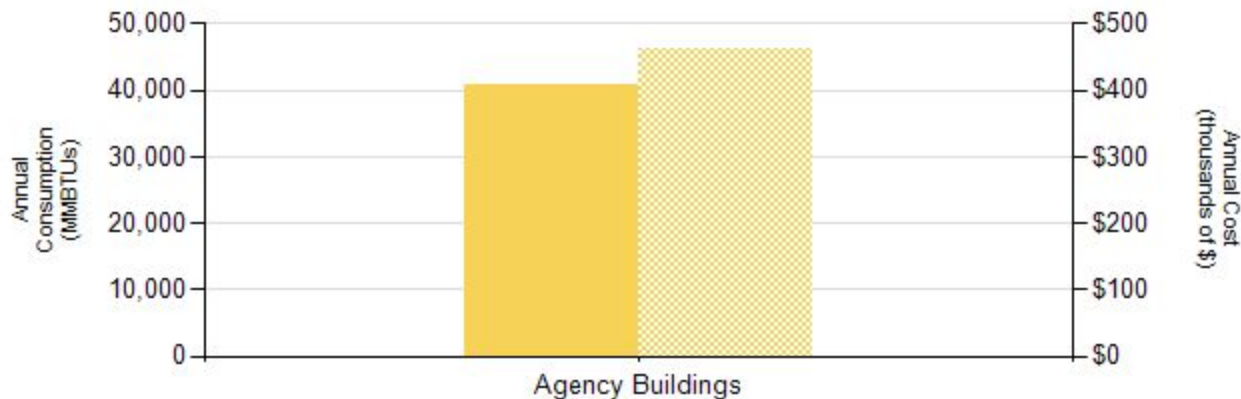
## 1. Overview

This report is intended to provide a framework for the LAC Parks, referred to as “Agency” herein, to identify inefficient facilities and infrastructure and prioritize further investigation and energy efficiency retrofit work. This analysis uses only energy billing data provided by the Agency to analyze energy use across Agency assets, and to help identify opportunities for energy efficiency improvements. Many factors affect the energy use in different assets, including age, type of heating, ventilation, air conditioning (HVAC), and lighting equipment, facility occupancy and hours, plug loads, and climate. Once individual opportunities with the greatest potential for energy savings are identified, a more detailed screening of those facilities can be performed to identify the specific sources of the inefficiencies.

This report was created by The Energy Coalition on behalf of the Southern California Regional Network ([www.socalren.org](http://www.socalren.org)). Any questions about this report can be directed to your assigned Project Manager, Alex Ricklefs at [aricklefs@energycoalition.org](mailto:aricklefs@energycoalition.org).

## 2. Total Energy Portfolio

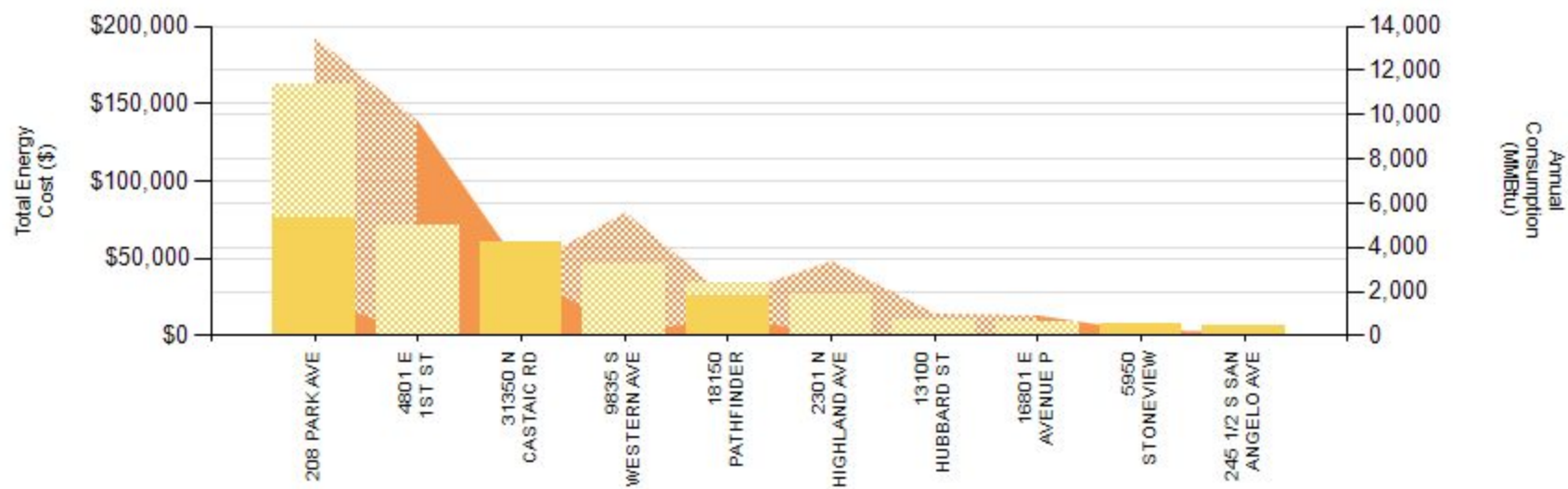
Your Total Annual Energy Cost is **\$462,191**



### 3. Building Summary



Your Annual Energy Cost for Buildings is **\$462,191** and **100.0%** of the Total Cost.



Key: Displays the top 10 consuming Buildings. Yellow columns represent Cost, Orange area represents Consumption. Electricity is the solid shade, Natural Gas is the hashed shade.

Table 4: Building Summary (Annual)

Site Name	Address	Electric Consumption (kWh)	Electric Cost (\$)	Electric Rate (\$/kWh)	Gas Consumption (therms)	Gas Cost (\$)	Gas Rate (\$/therm)	DAC Status(Yes/No)
SAN FERNANDO REC SERVICES	208 PARK AVE	505,992	\$76,455	\$0.15	116,994	\$85,382	\$0.73	YES
BELVEDERE PARK LAKE	4801 E 1ST ST	0	\$0	\$0.00	96,953	\$71,251	\$0.73	YES
CASTAIC SPORTS COMPLEX AQUATIC CENTER	31350 N CASTAIC RD	879,585	\$60,691	\$0.07	0	\$0	\$0.00	NO
JESSE OWENS SWIMMING POOL	9835 S WESTERN AVE	0	\$0	\$0.00	55,415	\$46,072	\$0.83	YES
COMMUNITY REGIONAL PARK	18150 PATHFINDER	248,860	\$25,384	\$0.10	8,959	\$8,888	\$0.99	NO
HOLLYWOOD BOWL	2301 N HIGHLAND AVE	0	\$0	\$0.00	33,565	\$27,392	\$0.82	NO
EL CARISO COMMUNITY PARK	13100 HUBBARD ST	0	\$0	\$0.00	9,675	\$9,665	\$1.00	YES
LAKE LOS ANGELES PARK ASSOCIATION	16801 E AVENUE P	0	\$0	\$0.00	8,887	\$8,553	\$0.96	NO
STONEVIEW NATURE CENTER	5950 STONEVIEW	54,017	\$8,167	\$0.15	0	\$0	\$0.00	NO
SAN ANGELO PARK	245 1/2 S SAN ANGELO AVE	36,355	\$7,009	\$0.19	0	\$0	\$0.00	YES

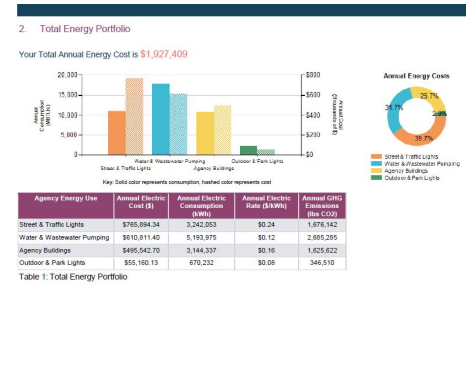
## Appendix A - Methodology

### 1. Data Sources

- Building information, energy usage and cost data used in this analysis were derived from: Utility consumption billing data provided by agency staff.
  - Utility consumption billing data used in this analysis were derived from SCG gas tariffs and SCE electric tariffs
  - For more information about the utility tariffs included in this analysis refer to:
    - SCG Gas Tariffs: For more information about Southern California Gas tariffs;  
<https://www.socalgas.com/regulatory/tariffs/tariffs-rates.shtml>
    - SCE Electric Tariff: For more information about Southern California Edison tariffs;  
<https://www.sce.com/wps/portal/home/regulatory/tariff-books/rates-pricing-choices>
  - Analysis period for electricity and gas results were based on usage during period January 1, 2019 – December 1, 2019.
  - In some cases, multiple meters were associated with a single facility or asset type. For such facilities, to generate estimates of facility-wide energy use and, energy usage and cost values were aggregated by summing energy usage and cost values for each day in the analysis period.
  - GHG emissions data used in this analysis were calculated using the conversion: 517 lb CO<sub>2</sub>/MWh + 11.91 lbs CO<sub>2</sub>/therm [1,2].
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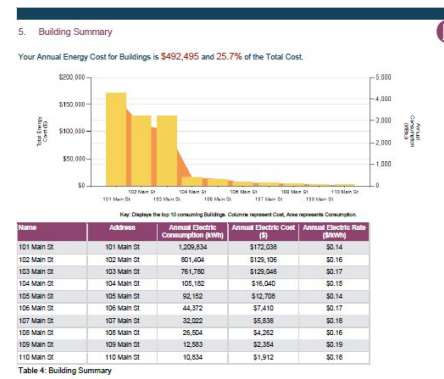
## 2. Total Energy Portfolio

- Total Energy Portfolio data represents an analysis of each agency facility type annual energy costs, annual energy consumption (kWh and therms), GHG Emissions and total annual energy costs for agency facility types based on MMBtus.
- The following agency assets are included in the Total Energy Portfolio:
  - o Buildings



## 3. Building Summary

- Building summary data is weather normalized and includes the following metrics for the top ten highest energy-consuming agency buildings' (total annual energy costs): annual energy costs and annual energy consumption (kWh and therms).



**Certain properties did not have energy usage data for the range of the analysis period and were excluded:**

- Electric 51473898, 51765754, 41372474, 50885814, 50885832, 48249837
  - Gas 1433070842,365206308,
  - Combined Meter # 1659331833, Meter # 43475017and Meter # 441584798 in one address 18150 PATHFINDER, ROWLAND HEIGHTS, CA 91748-See notes
  - Combined Meter # 42842361-TOU-GS2D and Meter #213206979 GS-GN-10 in one address located at 208 PARK AVE, SAN FERNANDO, CA 91340-See notes.
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## Endnotes

[1] Corporate Responsibility Report. (2015). In Southern California Edison. Retrieved from [https://www.sce.com/wps/wcm/connect/c0fcee5f5-e04a-4287-8301-8e66e3e5fbac/2014\\_Corporate+Responsibility+Report\\_FINAL+single-page.pdf?MOD=AJPERES&ContentCache=NONE](https://www.sce.com/wps/wcm/connect/c0fcee5f5-e04a-4287-8301-8e66e3e5fbac/2014_Corporate+Responsibility+Report_FINAL+single-page.pdf?MOD=AJPERES&ContentCache=NONE)

[2] Adams, L.S., Nicols, M.D., Goldstene, J. N. (2008). Climate Change Scoping Plan. In California Air Resources Board. Retrieved from [https://www.arb.ca.gov/cc/scopingplan/document/appendices\\_volume2.pdf](https://www.arb.ca.gov/cc/scopingplan/document/appendices_volume2.pdf)

[3] Based on SoCalREN previous project estimates.

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