

# Comparative Energy Analysis Report

Prepared for  
**Moorpark Unified School District**

Prepared by  
**The Energy Coalition**

On Behalf of  
**The SoCalREN Public Agency Program**

Date  
**6/21/2018**

## Table of Contents

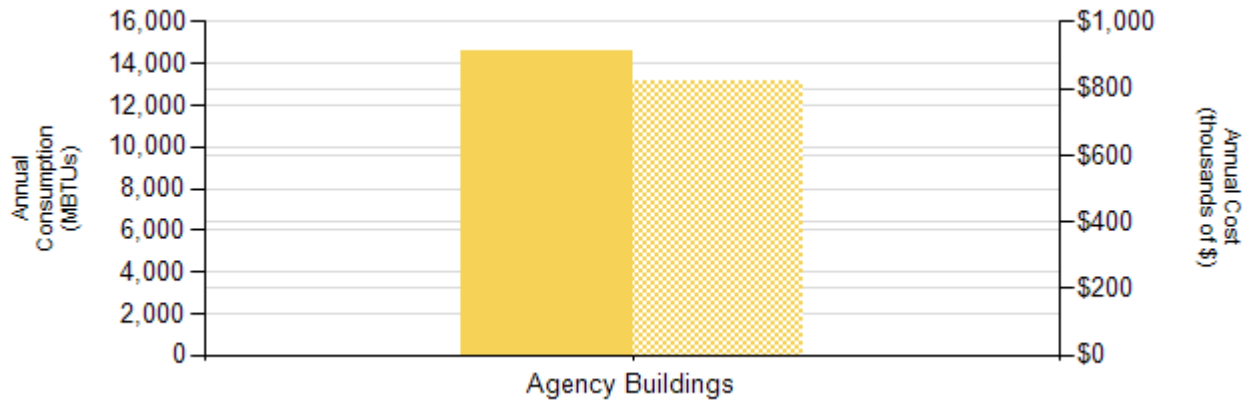
1. Overview	1
2. Total Energy Portfolio	2
3. Building Summary	3
Appendix A - Methodology	4

## 1. Overview

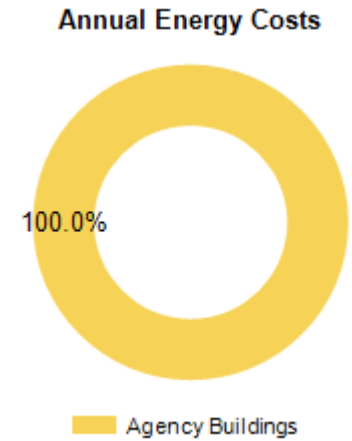
This report is intended to provide a framework for Moorpark Unified School District, referred to as “Agency” herein, to identify inefficient facilities and prioritize further investigation and energy efficiency retrofit work. This analysis uses only energy billing data provided by the Agency to provide an overview of energy use in Agency facilities and to help identify individual locations with the potential for energy efficiency improvements. Many factors affect the energy use in different facilities, including age, type of heating, ventilation, air conditioning (HVAC), and lighting equipment, facility occupancy and hours, plug loads, and climate. Once individual facilities 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. Further analysis can identify inefficient equipment, malfunctioning equipment, equipment not operating as designed, or suboptimal operational procedures.

## 2. Total Energy Portfolio

Your Total Annual Energy Cost is **\$825,134**



Key: Solid color represents consumption, hashed color represents cost



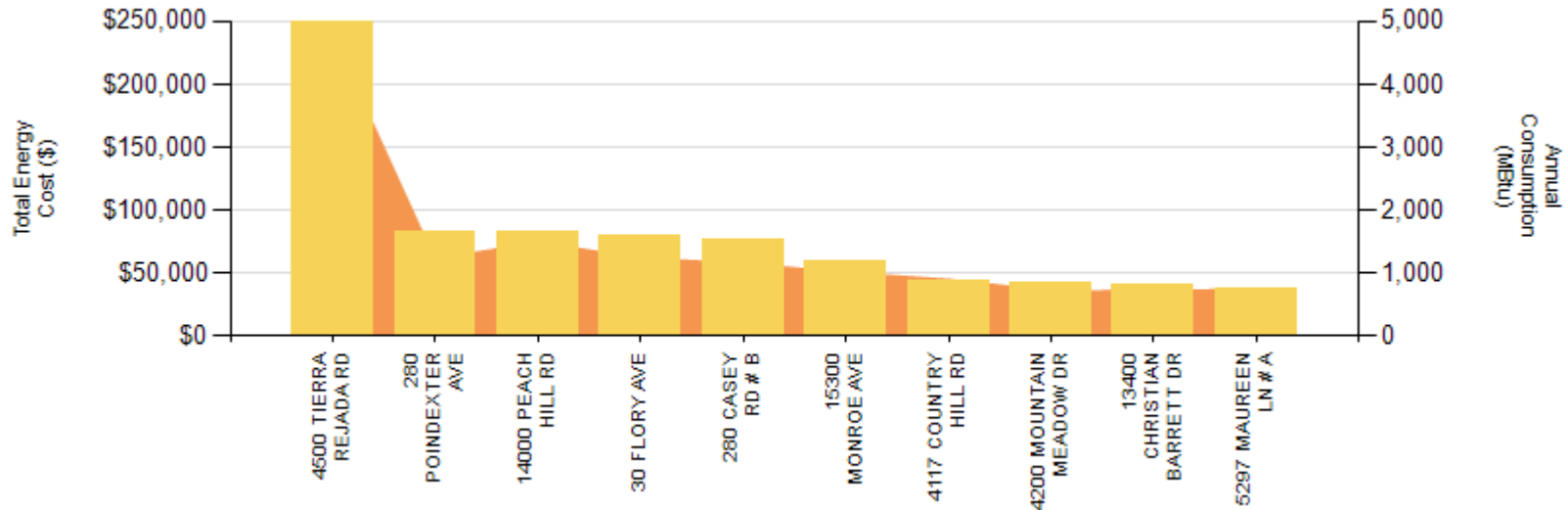
Agency Energy Use	Annual Electric Cost (\$)	Annual Electric Consumption (kWh)	Annual Electric Rate (\$/kWh)	Annual GHG Emissions (lbs CO2)
Agency Buildings	\$825,134.00	4,288,657	\$0.19	2,217,236

Table 1: Total Energy Portfolio



### 3. Building Summary

Your Annual Energy Cost for Buildings is **\$825,134** and **100.0%** of the Total Cost.



Key: Displays the top 10 consuming Buildings. Columns represent Cost, Area represents Consumption.

Name	Address	Annual Electric Consumption (kWh)	Annual Electric Cost (\$)	Annual Electric Rate (\$/kWh)
4500 TIERRA REJADA RD	4500 TIERRA REJADA RD	1,398,419	\$249,058	\$0.18
280 POINDEXTER AVE	280 POINDEXTER AVE	359,382	\$82,694	\$0.23
14000 PEACH HILL RD	14000 PEACH HILL RD	437,113	\$82,614	\$0.19
30 FLORY AVE	30 FLORY AVE	363,849	\$79,210	\$0.22
280 CASEY RD # B	280 CASEY RD # B	339,372	\$77,241	\$0.23
15300 MONROE AVE	15300 MONROE AVE	296,509	\$59,984	\$0.20
4117 COUNTRY HILL RD	4117 COUNTRY HILL RD	263,799	\$43,580	\$0.17
4200 MOUNTAIN MEADOW DR	4200 MOUNTAIN MEADOW DR	210,511	\$42,565	\$0.20
13400 CHRISTIAN BARRETT DR	13400 CHRISTIAN BARRETT DR	211,216	\$41,060	\$0.19
5297 MAUREEN LN # A	5297 MAUREEN LN # A	219,034	\$37,214	\$0.17

Table 2: Building Summary

## Appendix A - Methodology

### 1. Data Sources

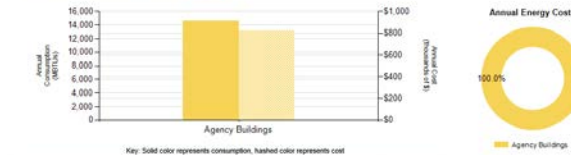
- Building information, energy usage and cost data used in this analysis were derived from: utility consumption billing data provided by agency staff.
- Utility consumption billing data used in this analysis were derived from SCE electric tariffs
- For more information about the utility tariffs included in this analysis refer to:
  - SCE Electric Tariff: [For more information about Southern California Edison tariffs](https://www.sce.com/wps/portal/home/regulatory/tariff-books/rates-pricing-choices); <https://www.sce.com/wps/portal/home/regulatory/tariff-books/rates-pricing-choices>
- All electricity results were based on usage during period April 30, 2017 – April 30, 2018.
- 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 intensity, energy usage and cost values were aggregated by summing the average daily 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 <sup>1,2</sup>.

## 2. Total Energy Portfolio

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

### 2. Total Energy Portfolio

Your Total Annual Energy Cost is \$825,134



Agency Energy Use	Annual Electric Cost (\$)	Annual Electric Consumption (kWh)	Annual Electric Rate (\$/kWh)	Annual GHG Emissions (lbs CO2)
Agency Buildings	\$825,134.00	4,288,657	\$0.19	2,217,236

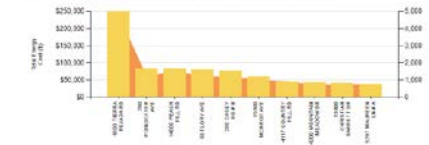
Table 1: Total Energy Portfolio

## 3. Building Summary

- Building summary data represents an analysis of the top ten highest energy consuming agency buildings annual energy costs, annual energy cost, annual energy consumption (kWh), GHG Emissions, and total annual energy costs based on MBtus.

### 3. Building Summary

Your Annual Energy Cost for Buildings is \$825,134 and 100.0% of the Total Cost



Name	Address	Annual Electric Consumption (kWh)	Annual Electric Cost (\$)	Annual Electric Rate (\$/kWh)
4526 TIERRA REJADA RD	4526 TIERRA REJADA RD	1,395,415	\$249,630	\$0.18
216 HONDOLSTEIN AVE	269 PINECREEK AVE	399,362	\$82,564	\$0.21
14668 PEACH HILL RD	5490 PEACH HILL RD	437,513	\$92,014	\$0.19
33 FLOORY AVE	38 FLOORY AVE	363,849	\$79,276	\$0.22
290 CASEY RD # B	289 CASEY RD # B	339,372	\$77,241	\$0.23
11268 MONDIE AVE	11330 MONDIE AVE	292,569	\$59,364	\$0.20
4117 COUNTRY HILL RD	4117 COUNTRY HILL RD	263,759	\$43,368	\$0.17
4206 MOUNTAIN MEADOW DR	4268 MOUNTAIN MEADOW DR	215,511	\$42,565	\$0.20
13488 CHRISTIAN BARRETT DR	13488 CHRISTIAN BARRETT DR	215,276	\$41,368	\$0.19
5257 MAUREEN LN # A	5257 MAUREEN LN # A	215,024	\$37,214	\$0.17

Table 4: Building Summary

## Endnotes

<sup>1</sup> Corporate Responsibility Report. (2015). In Southern California Edison. Retrieved from [https://www.sce.com/wps/wcm/connect/c0fcef5-e04a-4287-8301-8e66e3e5fbac/2014\\_Corporate+Responsibility+Report\\_FINAL+single-page.pdf?MOD=AJPERES&ContentCache=NONE](https://www.sce.com/wps/wcm/connect/c0fcef5-e04a-4287-8301-8e66e3e5fbac/2014_Corporate+Responsibility+Report_FINAL+single-page.pdf?MOD=AJPERES&ContentCache=NONE)

<sup>2</sup> 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)

<sup>3</sup> Based on SoCalREN previous project estimates.