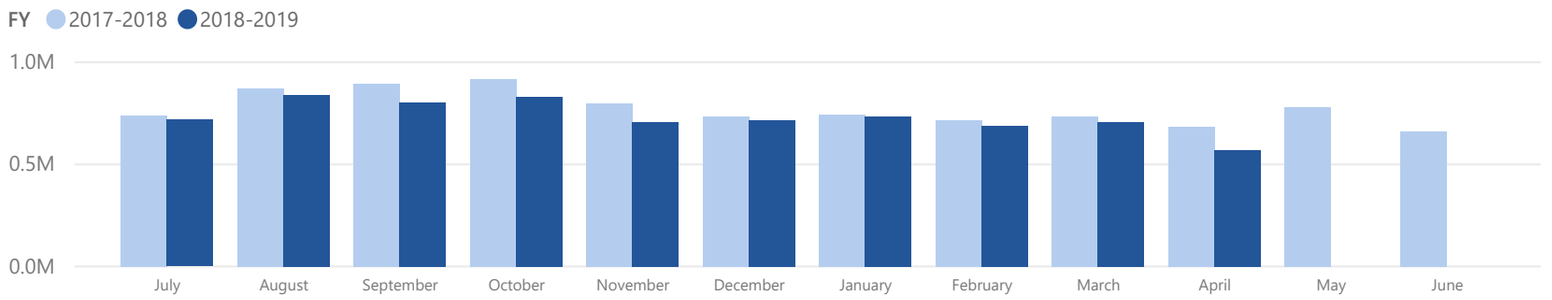
District Energy Totals

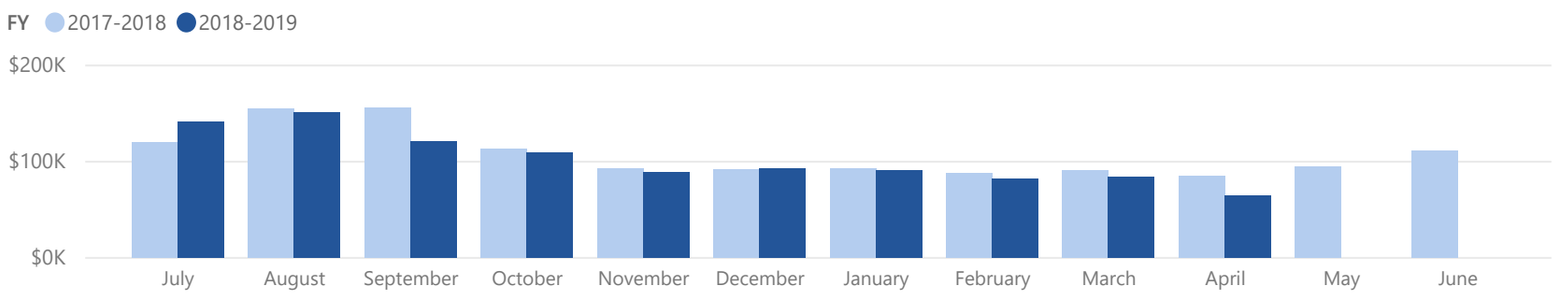
All

There are several projects currently scoped over the next few years which will affect the District's total electric usage. IES will coordinate closely with the District to ensure awareness as to the progress of Facilities Improvement Projects and any others as they pertain to energy management. Thus far, all LED lighting projects were completed as of March 2019. Additionally, several of the sites were retrofitted with HVAC units, and are consequently operating at a higher consumption rate. Lastly, SAMOHI and Malibu HS are currently undergoing major construction. The following report breaks down energy usage by site considering all these factors.

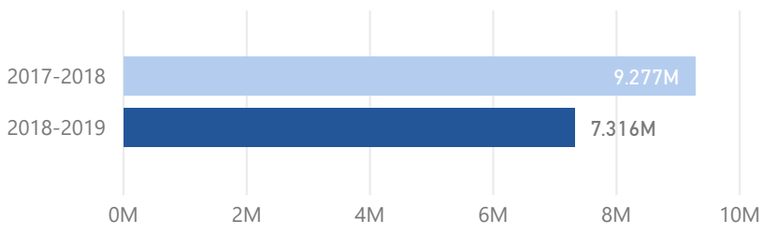
Total Electric kWh by Month and Fiscal Year



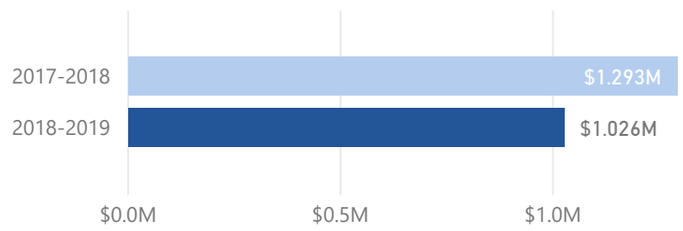
Total Electric Cost ($) by Month



Total Electric kWh by Fiscal Year

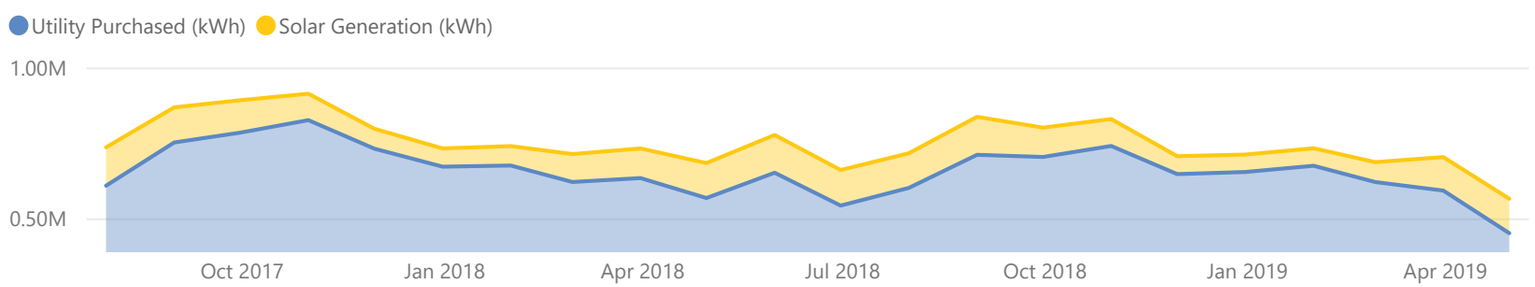


Total Electric Cost by Fiscal Year



<u>Fiscal Year 2017-18 (July 2017 to June 2018)</u> is the Baseline Year for comparison to the current year's usage.

Total Energy Use (kWh) by Month

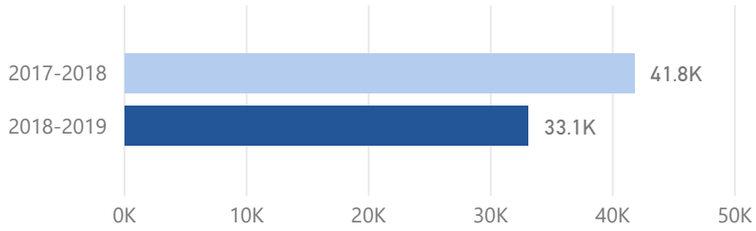


Site Energy Comparison
Bus Barn

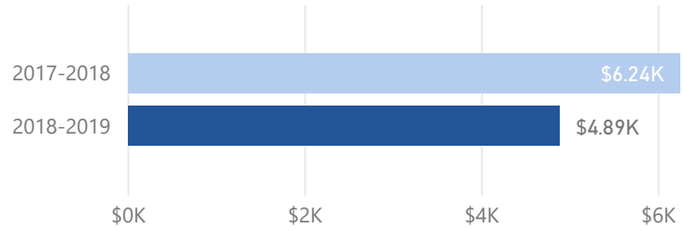
Bus Barn Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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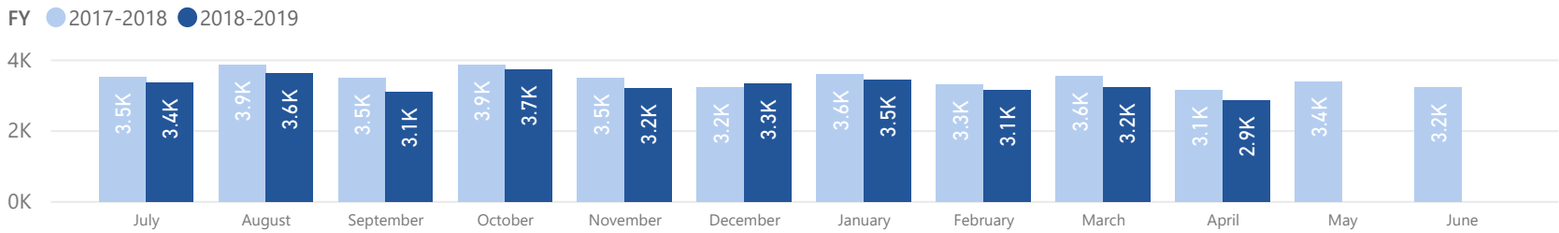
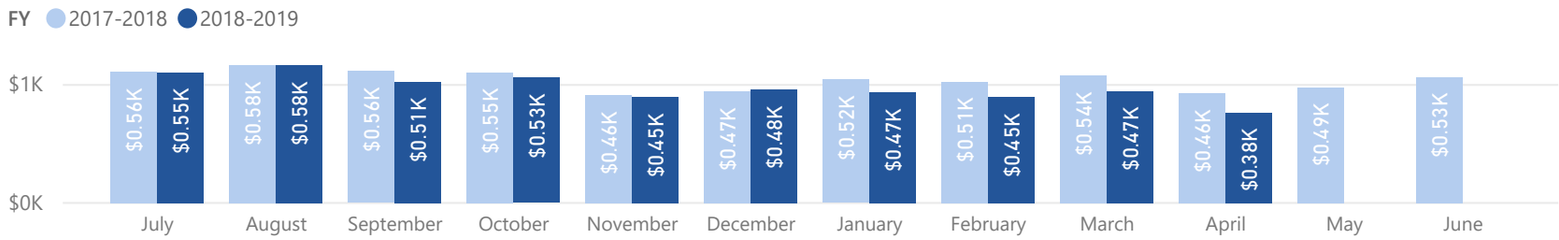
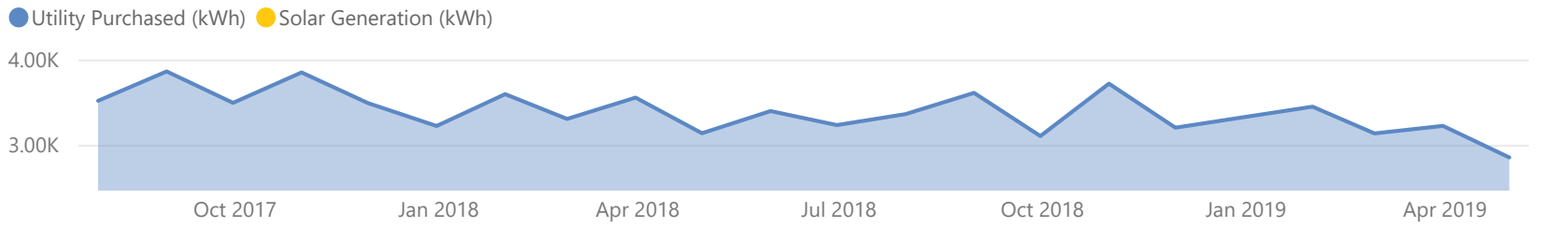
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, Bus Barn showed an decrease in energy usage of 6.8%, yielding a savings of about $265. There were no new HVAC units installed or Prop 39, indicating these savings came from behavioral measure changes or an alternate form of energy savings. From the months of July 2018-April 2019, approximately 2,046 kWh (5.8% reduction) has been saved and $336.

Energy kWh Savings

2.05K

Purchased Utility Cost Savings

$0.34K

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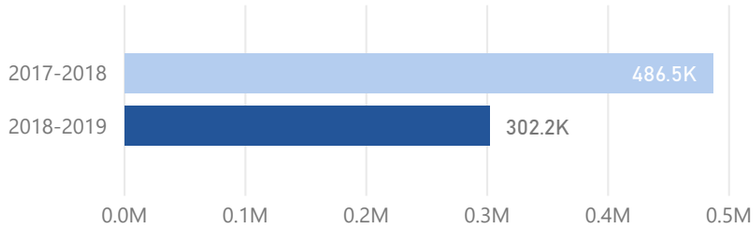
Site Energy Comparison District Office

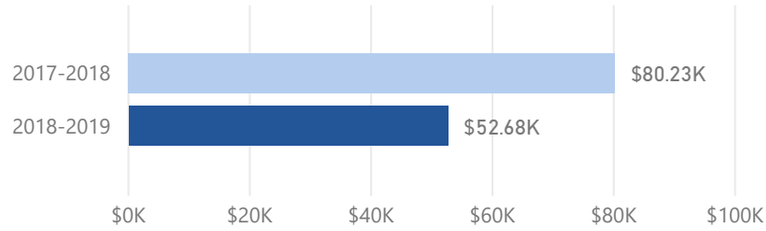
District Office Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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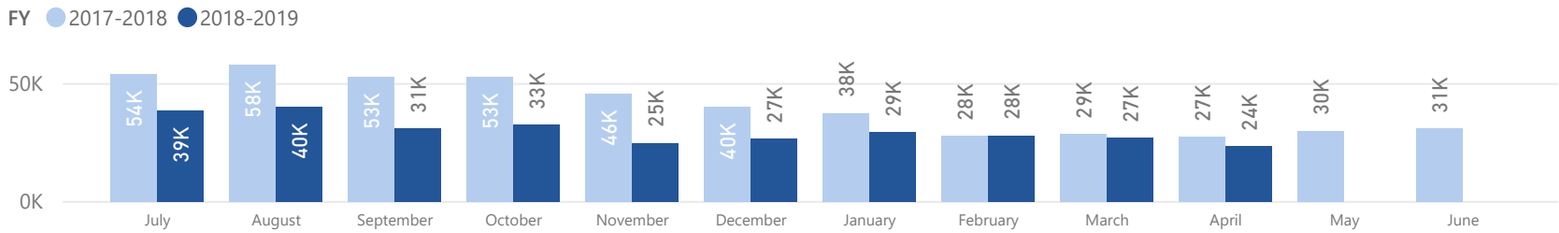
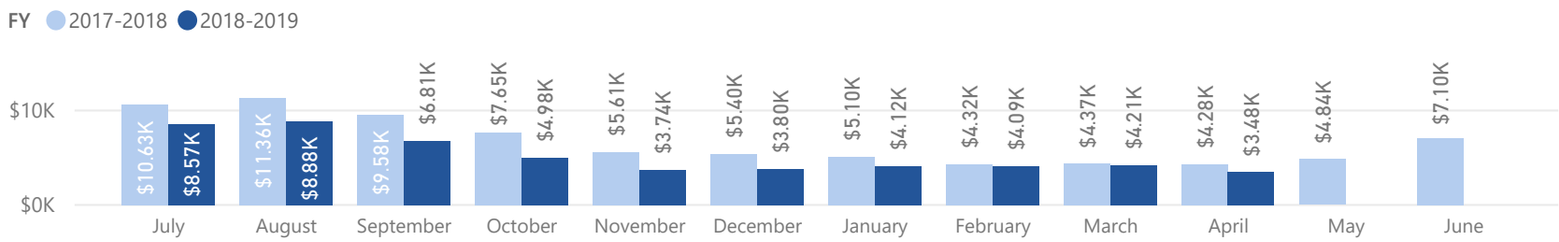
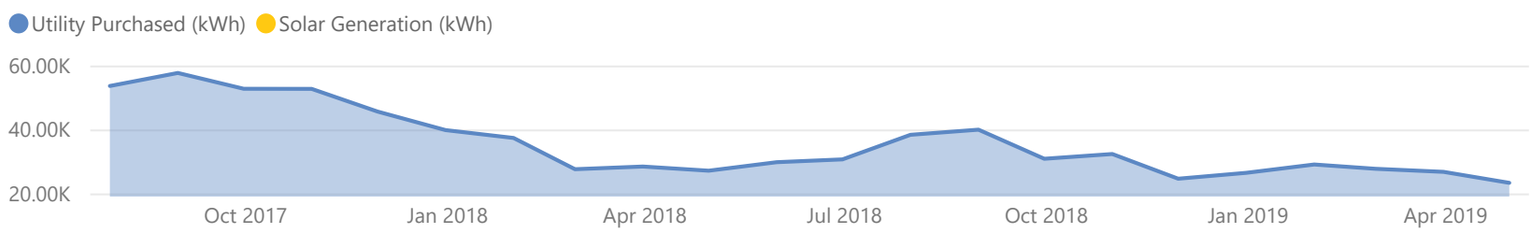
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, District Office showed a decrease in energy of 11.2%, yielding a savings of about $2,168. Lighting was updated to LED, which contributed to a certain percentage of these savings. However, the majority of the energy savings was a result of upgrades to IT equipment. From the months of July 2018-April 2019, about 123,264 kWh (29% reduction) and $15,606 was saved.

Energy kWh Savings

123.26K

Purchased Utility Cost Savings

$15.61K

IES Indoor Environmental Services
sitelogiq

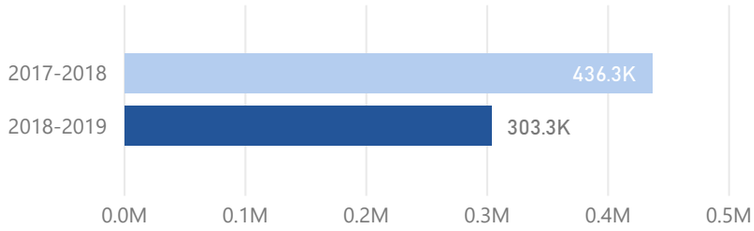
Edison Language Academy
Together in Two Languages/Juntos a traves de dos idiomas

Site Energy Comparison Edison Elementary

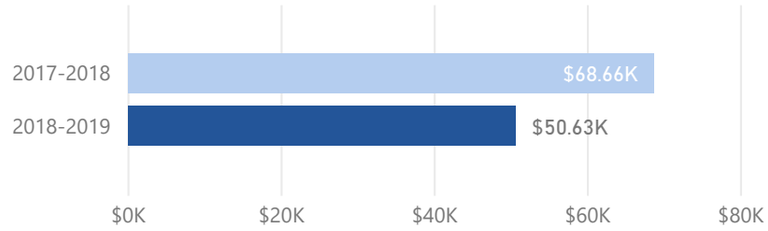
Edison Elementary Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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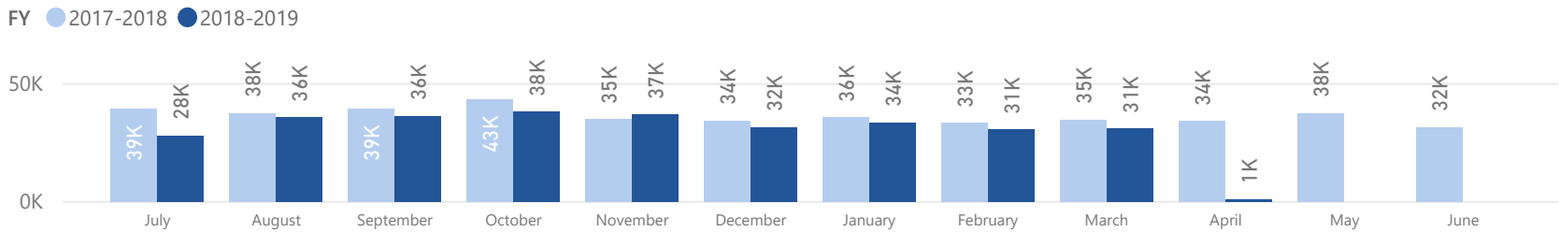
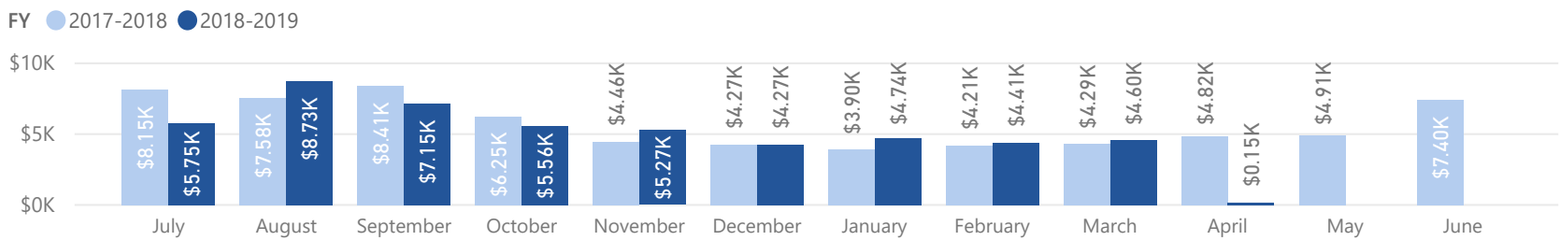
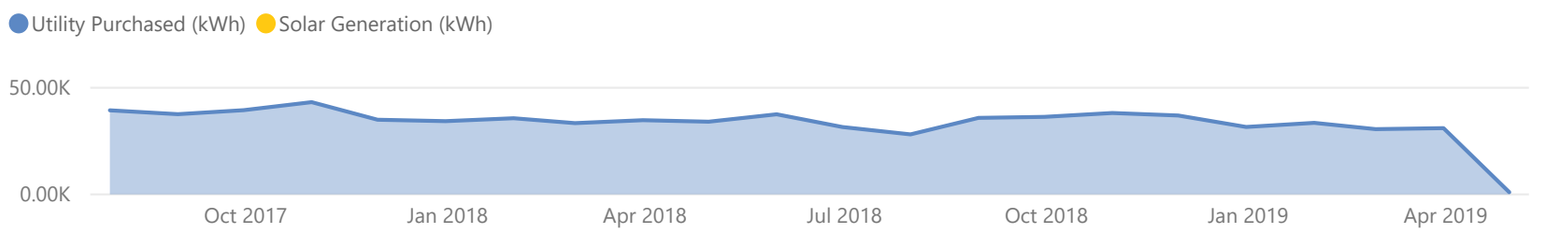
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through March 2019, Edison Elementary showed an overall decrease in energy of 8.4%, but an increase in cost of approximately $1,147. Bills are only currently available through 4/2/2019, so April was not included in this comparison. Lighting was updated to LED, which contributed to a certain percentage of these savings. From the months of July 2018-March 2019, approximately 30,700 kWh (9.2% reduction) and $1,040 was saved.

Energy kWh Savings

63.80K

Purchased Utility Cost Savings

$1.04K

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IES Indoor Environmental Services
sitelogiq

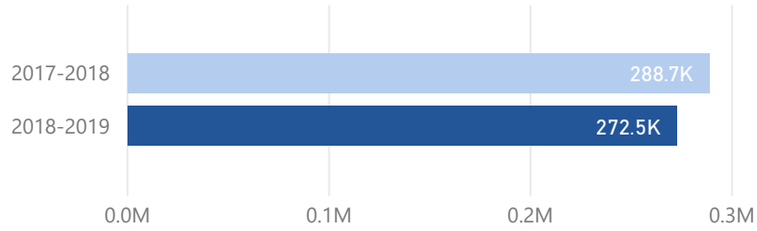
Franklin Elementary School

Site Energy Comparison Franklin Elementary

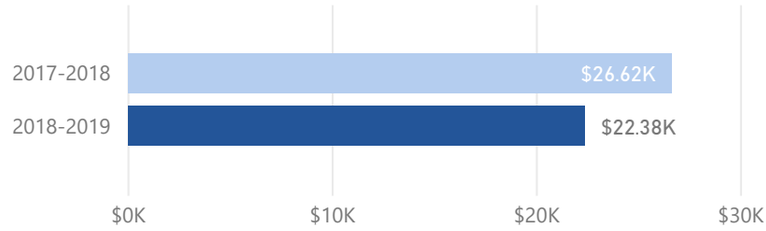
Franklin Elementary Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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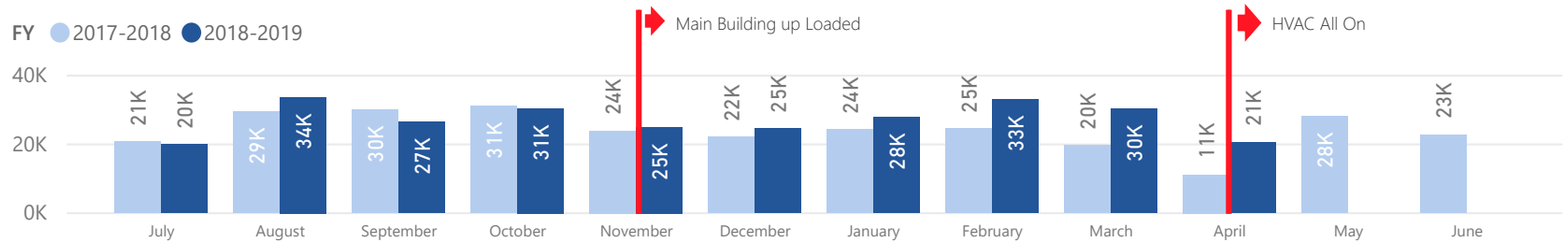
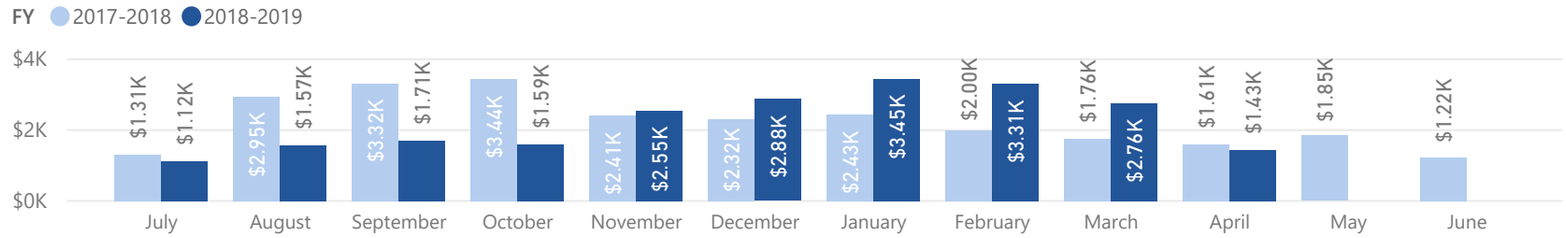
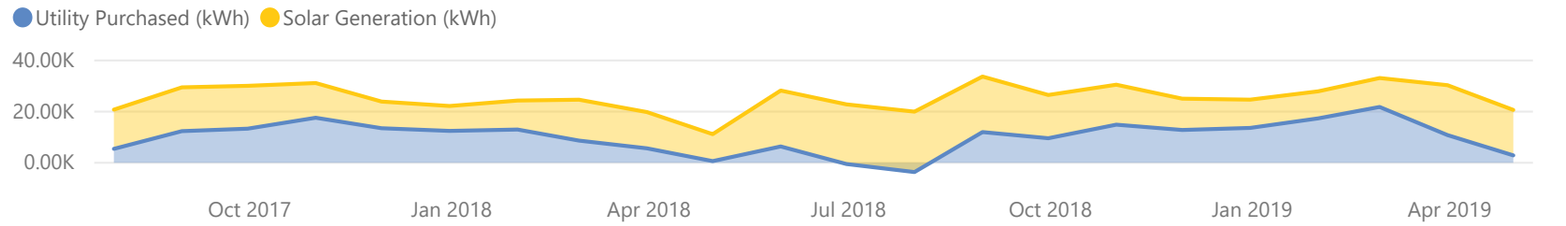
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, Franklin Elementary showed an increase in energy usage of 40.1% and an increase in cost of $3,154. This is most likely due to the installation of new AC units in classrooms which in previous years did not have mechanical cooling. Since there was less need for cooling during the winter months, energy usage from the AC units are just recently starting to increase energy usage. From the months of July 2018-April 2019, energy increased by about 34,875 kWh (14.7% increase), though costs decreased by $1,177.

Energy kWh Savings

-34.87K

Purchased Utility Cost Savings

$1.18K

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IES Indoor Environmental Services
sitelogiq

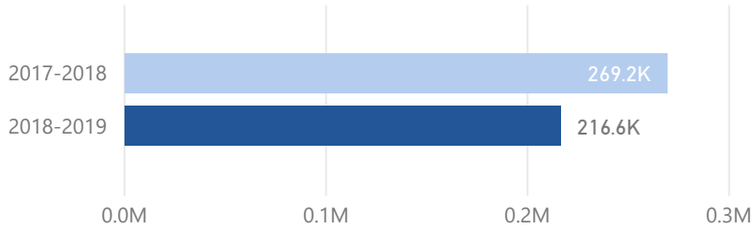
Grant Elementary School

Site Energy Comparison Grant Elementary

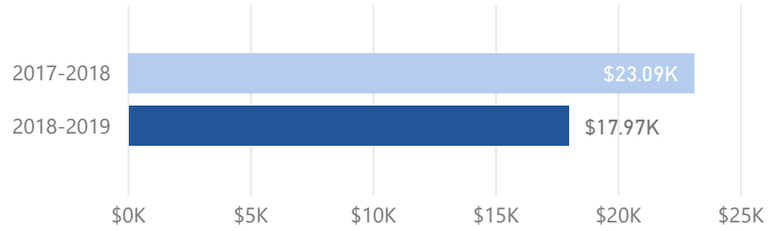
Grant Elementary Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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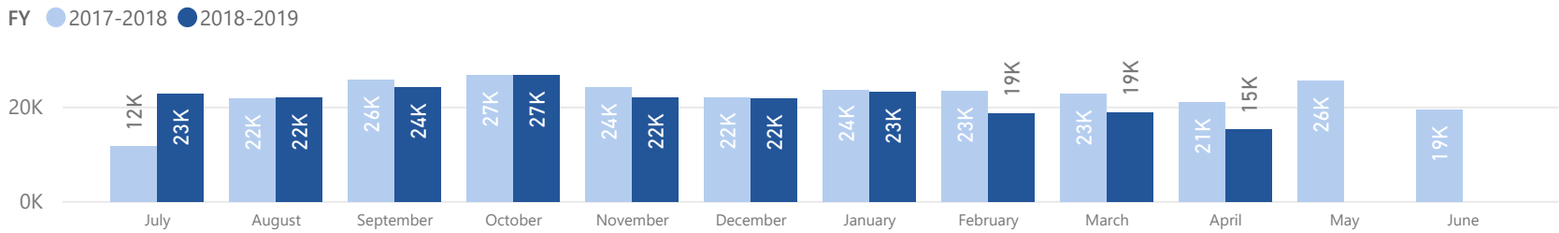
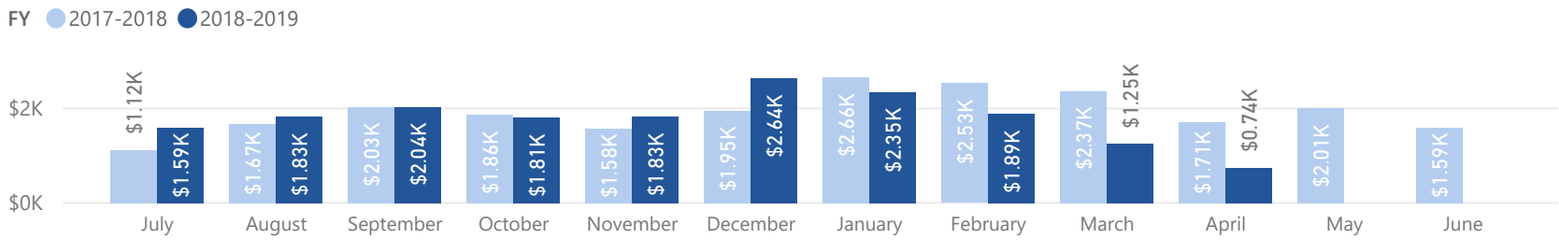
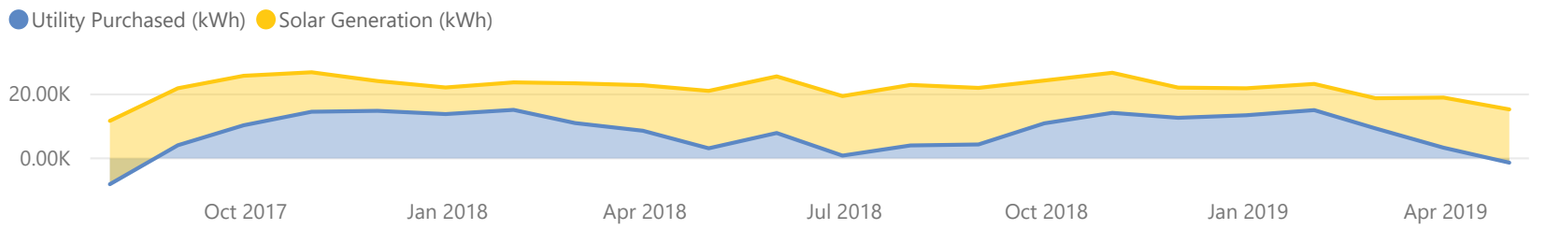
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, Grant showed an decrease in energy usage of 16.2%, yielding a savings of about $3,040. New LED lighting was installed replacing the less efficient older fixtures. From the months of July 2018-April 2019, approximately 7,408 kWh (3.3% reduction) has been saved and $1,527.

Energy kWh Savings

7.41K

Purchased Utility Cost Savings

$1.53K

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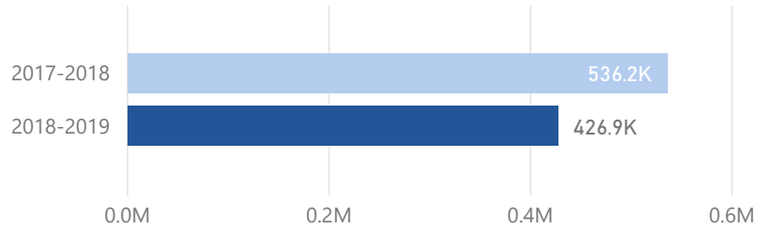
Site Energy Comparison
John Adams MS (JAMS)

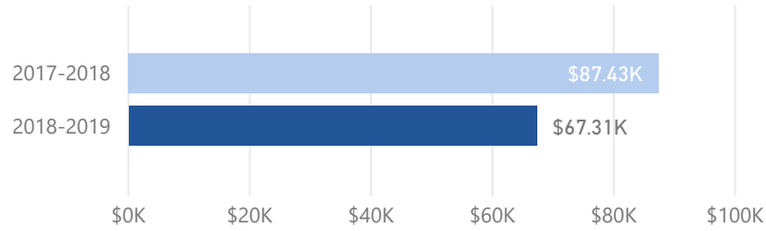
John Adams MS Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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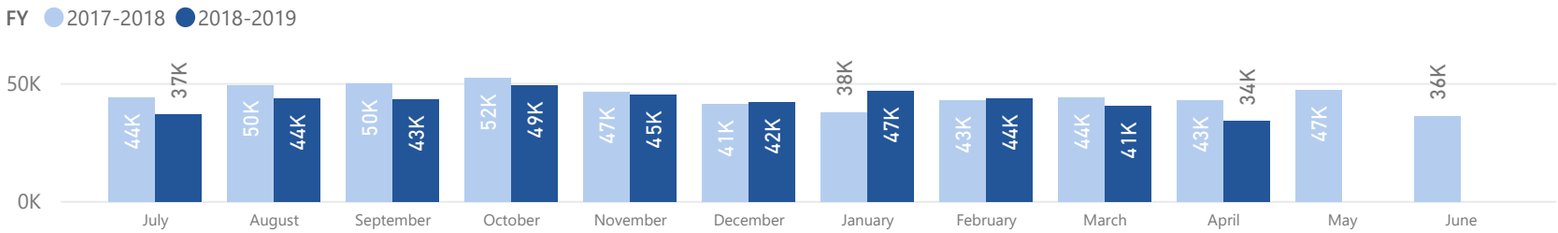
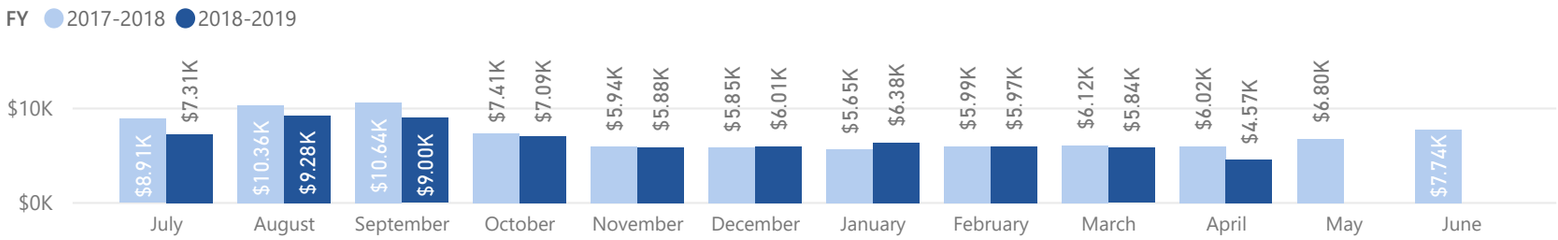
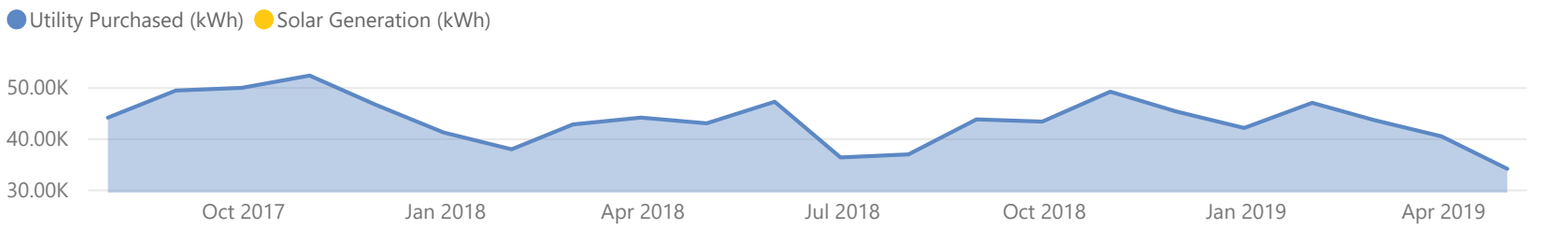
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, JAMS showed an increase in energy usage of 1.6%, causing an increase in cost of $1,028. New LED lighting was installed, though it appears any savings was offset by increased HVAC or plug load usage in those months. From the months of July 2018-April 2019, approximately 25,602 kWh (5.7% reduction) and $5,575 has been saved.

Energy kWh Savings

25.60K

Purchased Utility Cost Savings

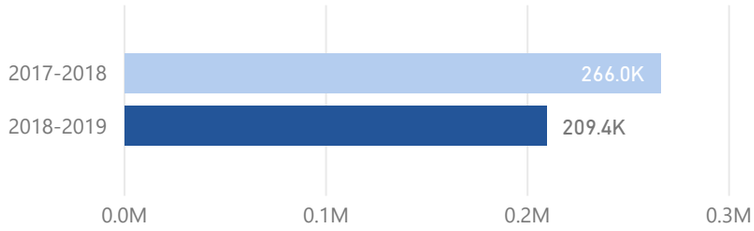
$5.58K

Site Energy Comparison
John Muir Elementary/SMASH

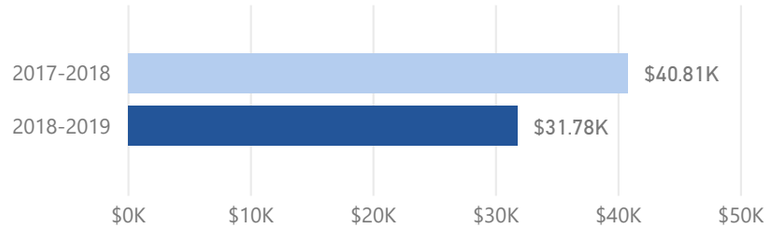
John Muir Elementary/SMASH Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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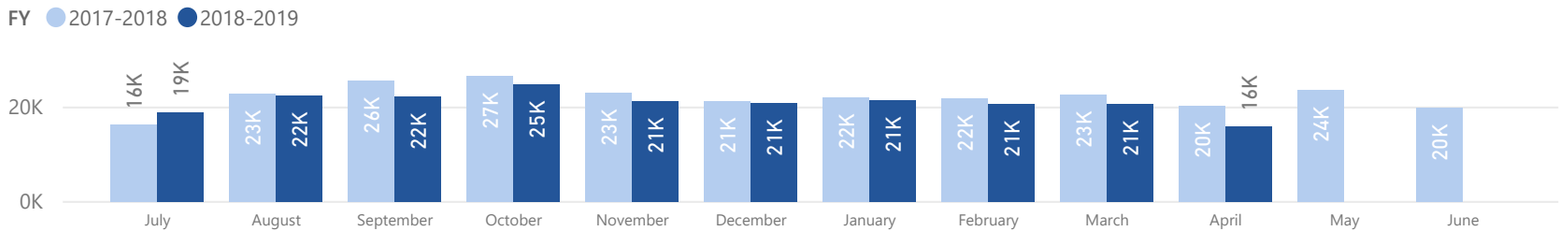
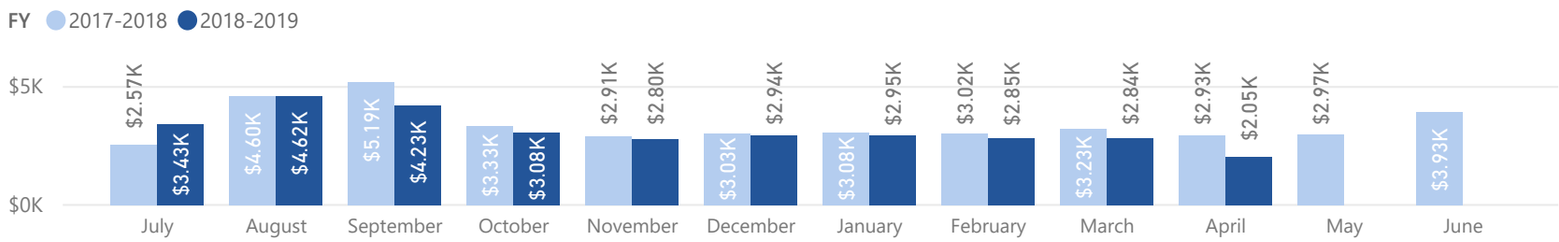
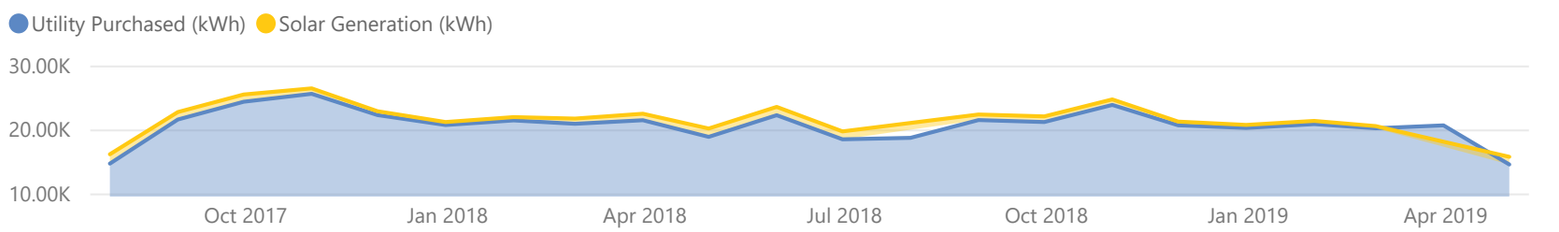
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, Muir/SMASH showed a decrease in energy usage of 9.2%, yielding a savings of about $1,582. New LED lighting was installed during these months, which may have contributed to the energy savings. From the months of July 2018-April 2019, about 13,043 kWh (5.9% reduction) and $2,121 has been saved.

Energy kWh Savings

13.04K

Purchased Utility Cost Savings

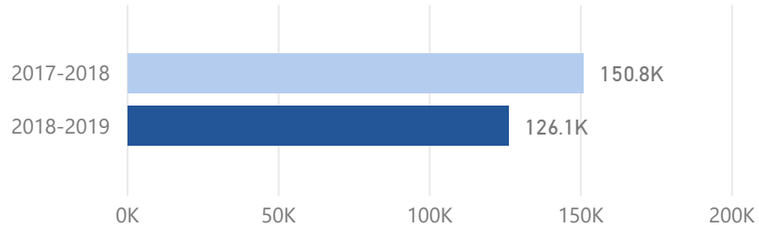
$2.12K

Site Energy Comparison
Juan Cabrillo Elementary

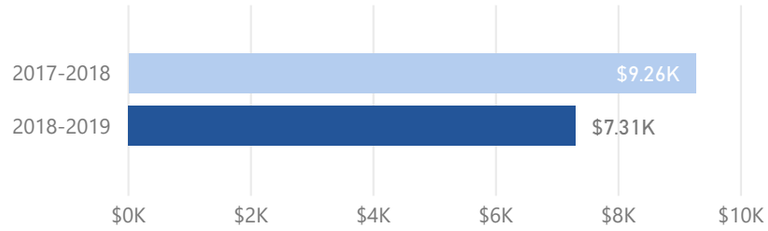
Juan Cabrillo Elementary Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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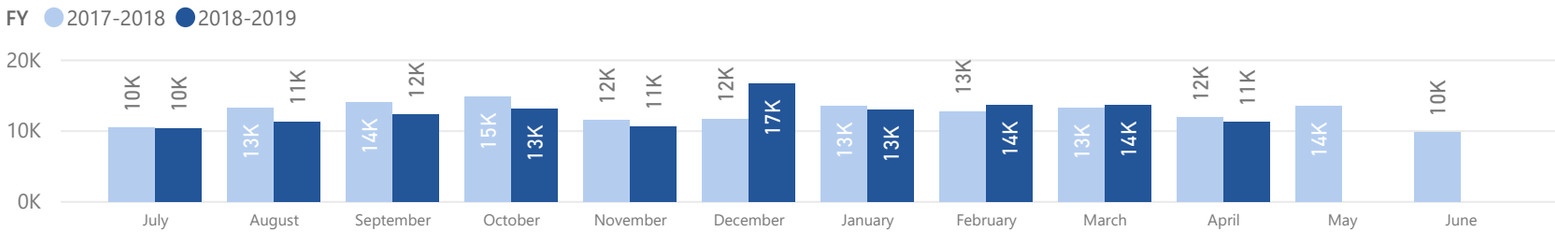
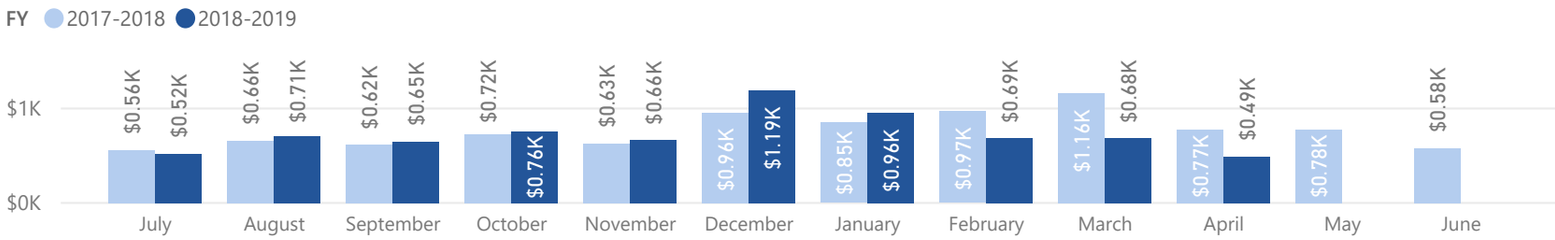
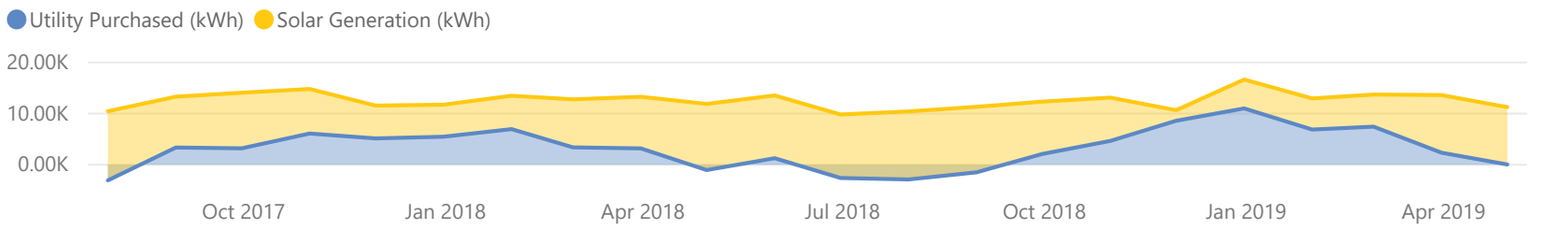
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, Juan Cabrillo showed an increase in energy usage of 0.2%, though costs decreased by about $937. New LED lighting was installed during these months, though the savings may have been overshadowed by increased HVAC usage in these months. From the months of July 2018-April 2019, about 1,310 kWh (1.0% reduction) and $597 has been saved.

Energy kWh Savings

1.31K

Purchased Utility Cost Savings

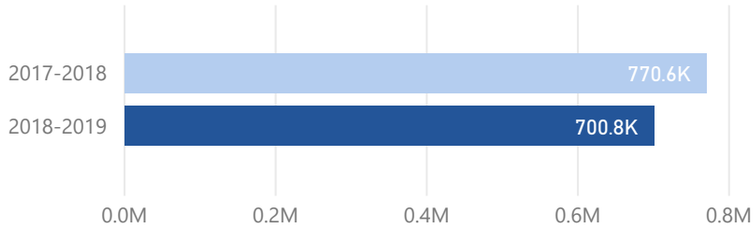
$0.60K

Site Energy Comparison
Lincoln MS

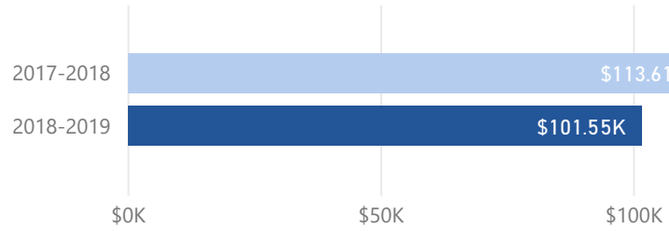
Lincoln MS Energy Totals

All

Total Electric kWh by Fiscal Year

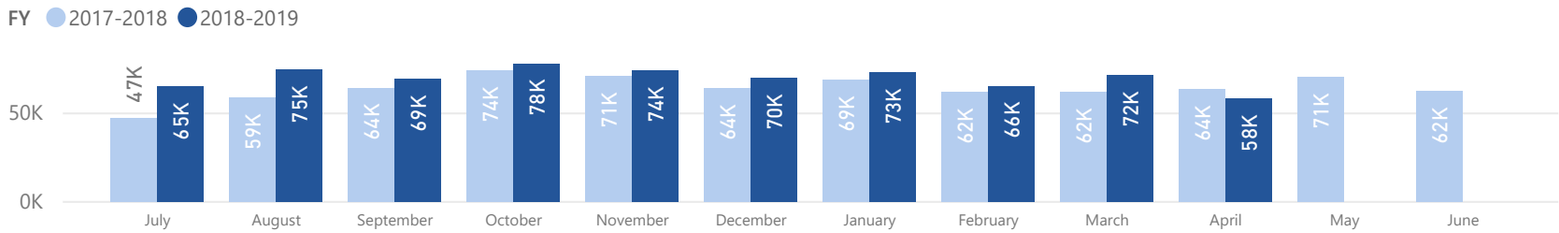


Total Electric Cost by Fiscal Year

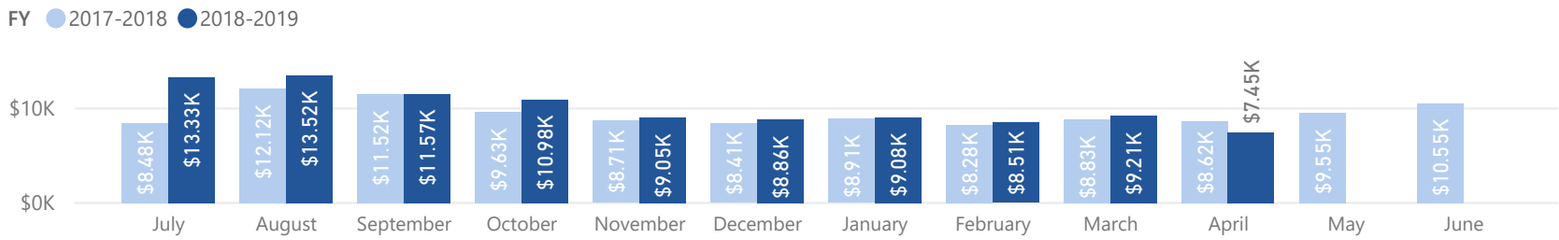


Fiscal Year 2017-18 (July 2017 to June 2018) is the Baseline Year for comparison to the current year's usage.

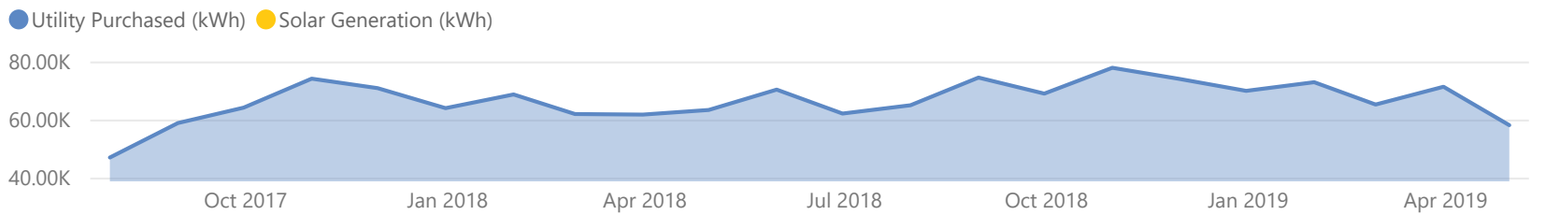
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

the months of January through April 2019, Lincoln MS showed an increase in energy usage of 4.6%, but have decreased in cost of about $384. New LED lighting was installed during these months, though increased use of the HVAC or plug loads may have overshadowed any savings. Additionally, there was an area by the athletic fields that was under construction in FY 2017-18, which means there may have been a energy loads unaccounted for in the baseline year. From the months of July 2018-April 2019, total usage has increased by about 63,280 kWh (9.9% increase) and increased in cost by $8,034.

Energy kWh Savings

-63.28K

Purchased Utility Cost Savings

($8.03K)

IES Indoor Environmental Services
sitelogiq

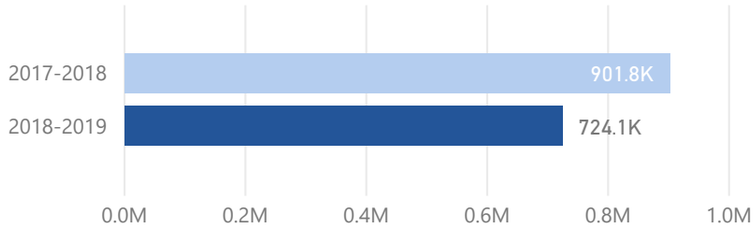
MALIBU HIGH SCHOOL
30215 Morning View Drive . Malibu . CA 90265 310-457-6801

Site Energy Comparison Malibu HS

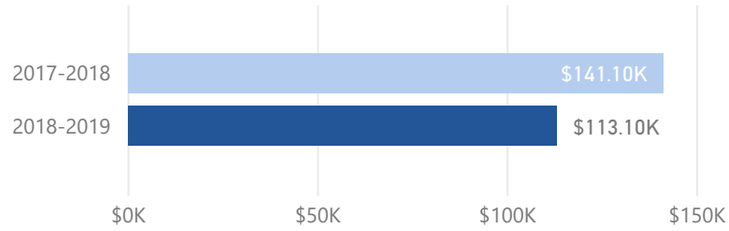
Malibu HS Energy Totals

All

Total Electric kWh by Fiscal Year

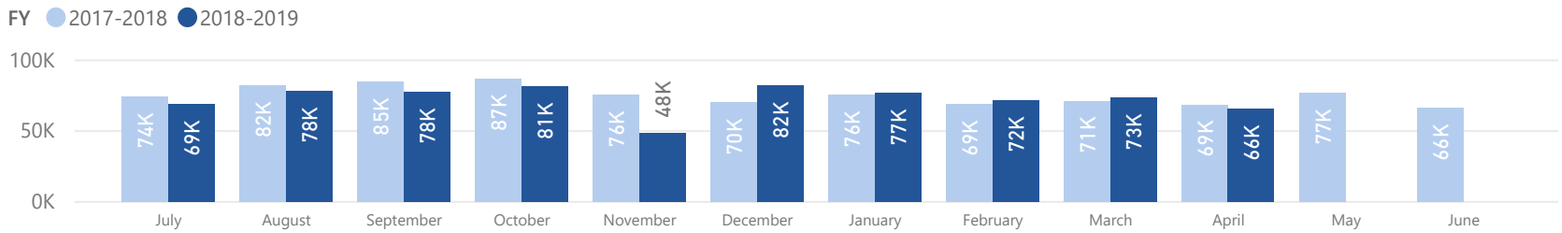


Total Electric Cost by Fiscal Year

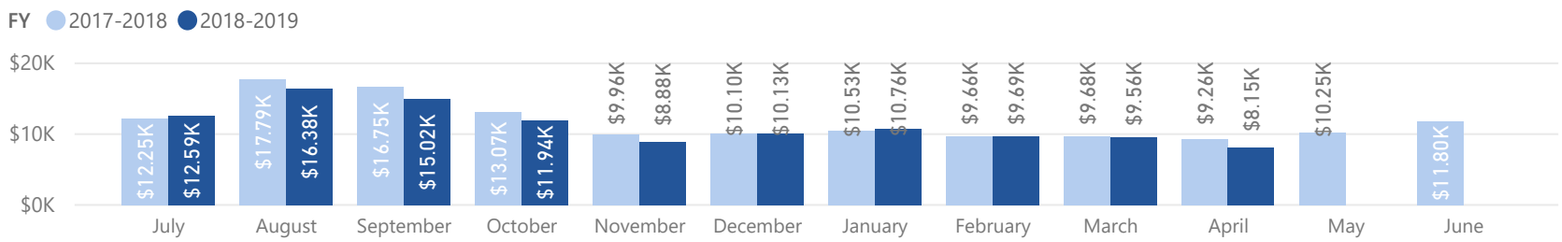


Fiscal Year 2017-18 (July 2017 to June 2018) is the Baseline Year for comparison to the current year's usage.

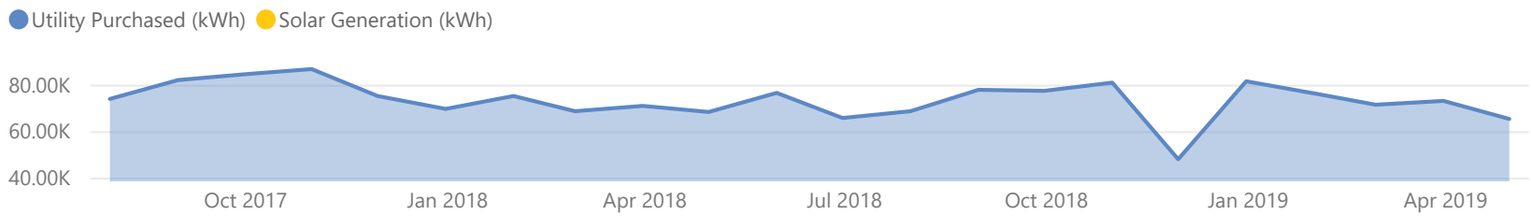
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through March 2019, Malibu HS showed an increase in energy usage of 2.8%. Cost savings could not be calculated since current bills are not yet available. New LED lighting was installed during these months and there is major construction in progress at the site, leading to fluctuating energy usage. From the months of July 2018-March 2019, about 31,690 kWh (4.6% reduction) has been saved.

Energy kWh Savings

34.70K

Purchased Utility Cost Savings

$5.95K

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Site Energy Comparison McKinley Elementary

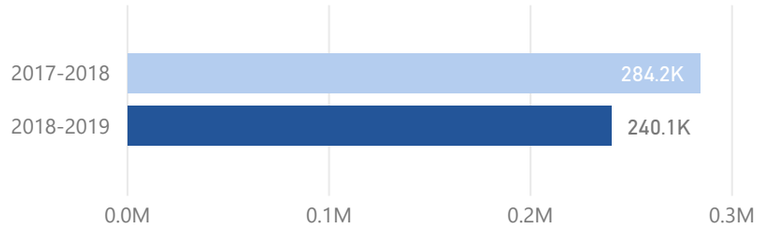
IES Indoor Environmental Services
sitelogiq

McKinley Elementary School

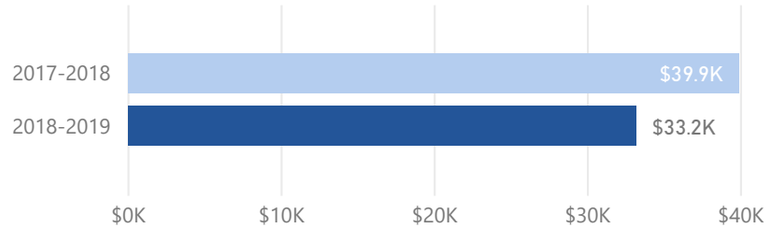
McKinley Elementary Energy Totals

All

Total Electric kWh by Fiscal Year

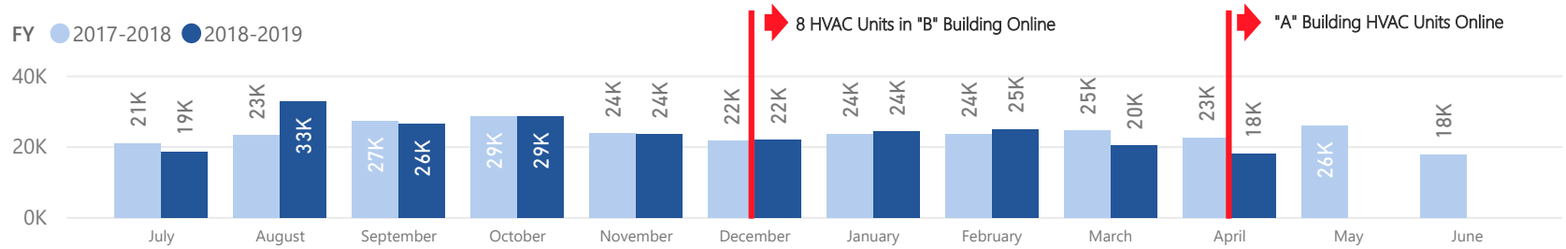


Total Electric Cost by Fiscal Year

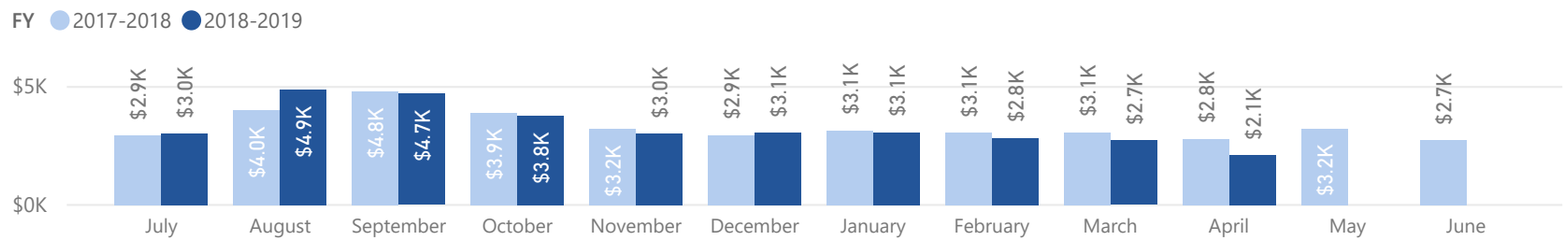


Fiscal Year 2017-18 (July 2017 to June 2018) is the Baseline Year for comparison to the current year's usage.

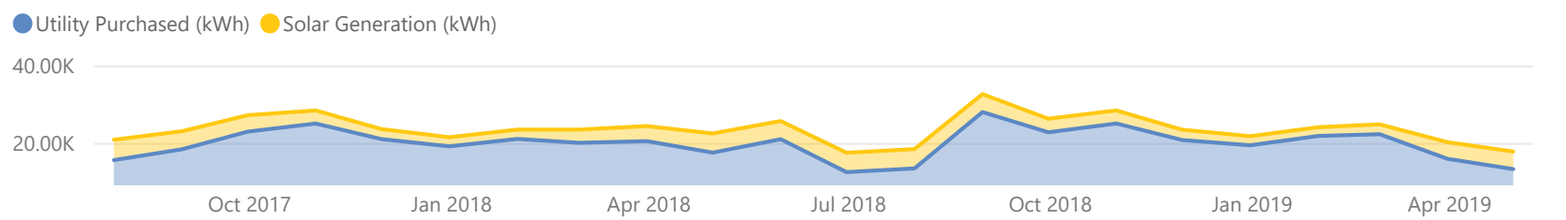
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, McKinley showed an decrease in energy usage of 7.2%, yielding a savings of about $1,340. New LED lighting was installed during these months, which may have contributed to the energy savings. From the months of July 2018-April 2019, energy has decreased by about 478 kWh (0.2% decrease), and costs have decreased by $723.

Energy kWh Savings

0.48K

Purchased Utility Cost Savings

$0.72K

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IES Indoor Environmental Services
sitelogiq

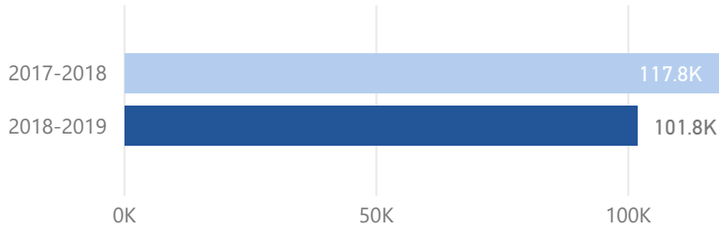
OLYMPIC HIGH SCHOOL
721 Ocean Park Boulevard · Santa Monica CA 90405

Site Energy Comparison Olympic HS

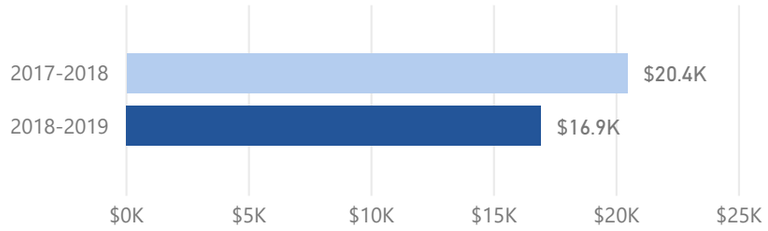
Olympic HS Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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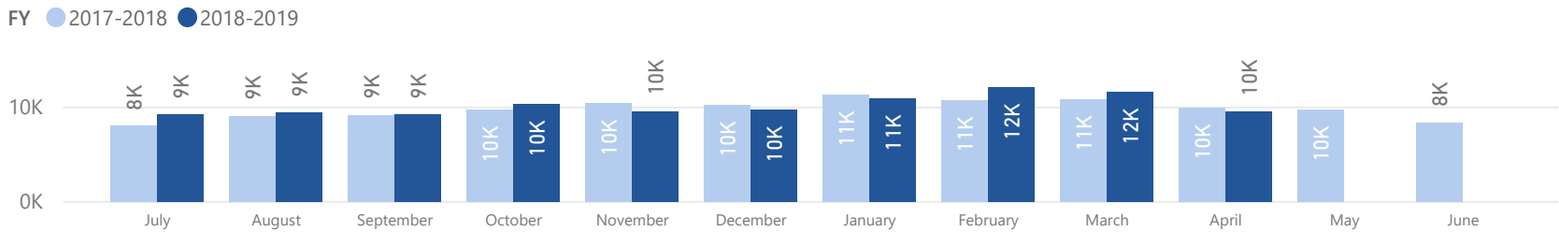
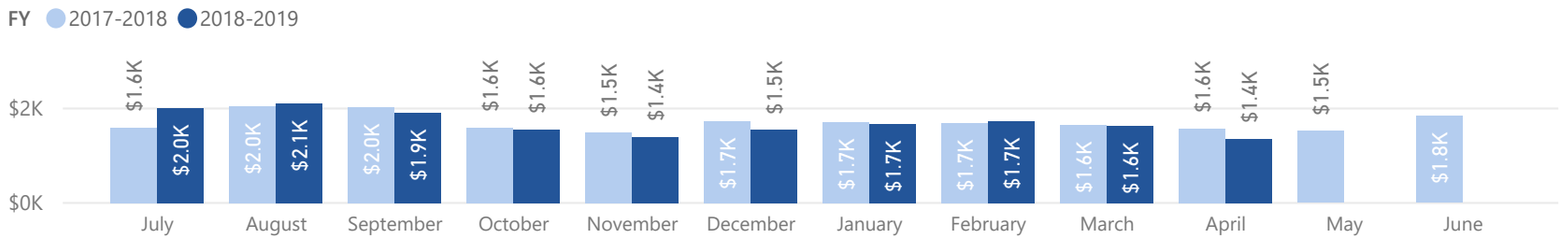
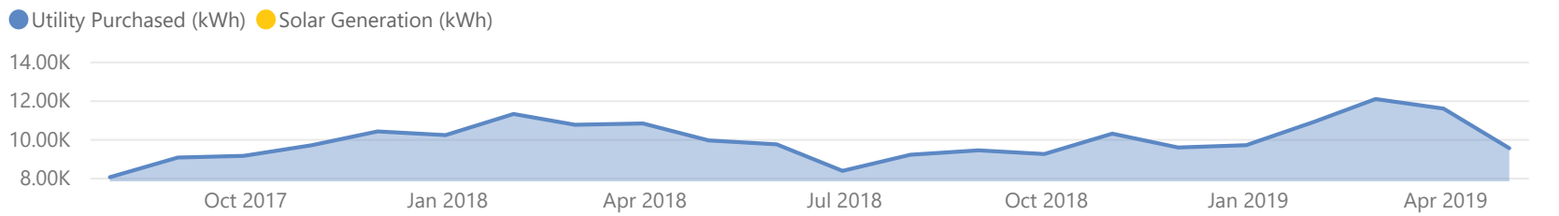
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, Olympic HS showed an increase in energy usage of 3.0% compared to FY 2017-18. However, during FY 2017-18, the majority of the campus was under construction, and the FY 2017-18 was consequently not a full representation of full scale energy demand. New LED lighting was installed during these months. From the months of July 2018-April 2019, increased by about 2,166 kWh (2.2% increase), but has decreased costs by $169.

Energy kWh Savings

-2.17K

Purchased Utility Cost Savings

$0.17K

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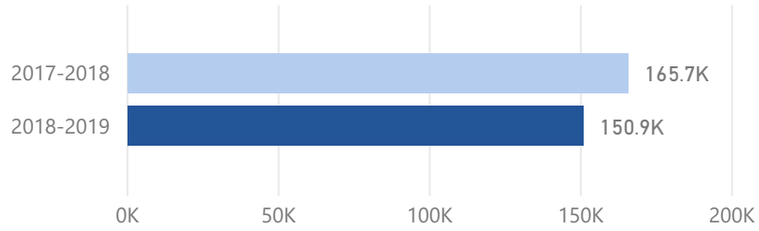
Site Energy Comparison
Point Dume Elementary

Point Dume Marine Science School

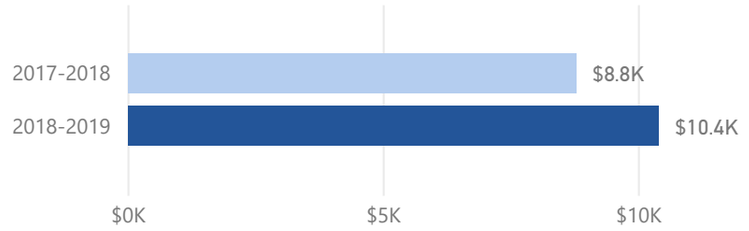
Point Dume Elementary Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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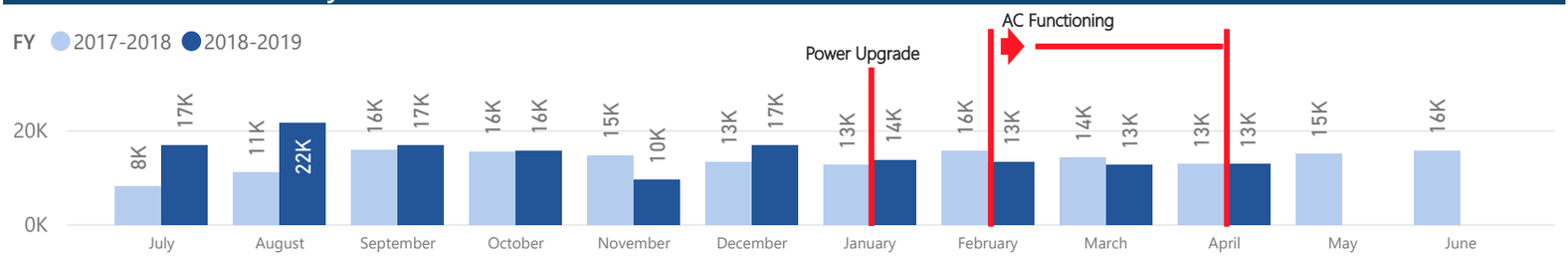
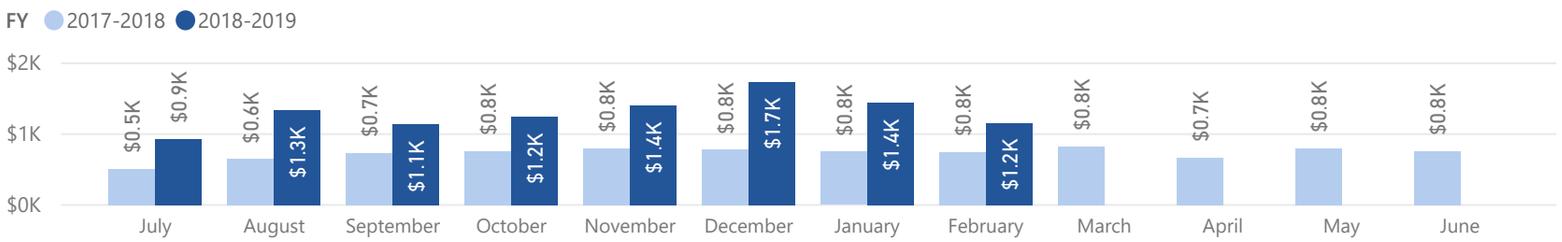
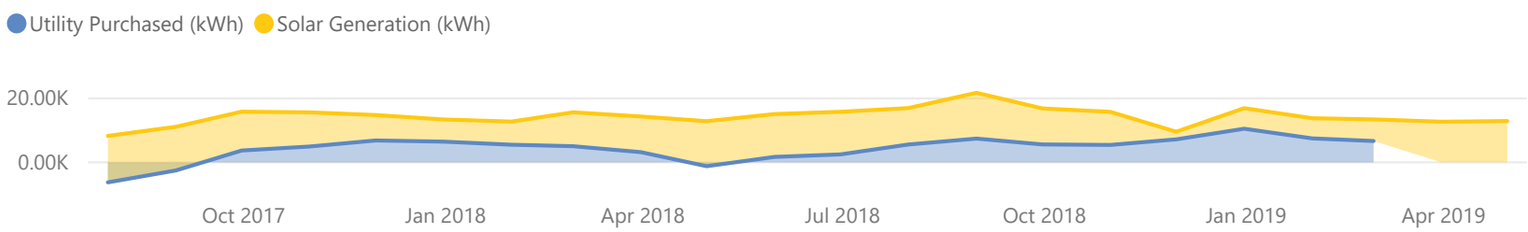
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

From the months of January through April 2019, Point Dume Elementary showed an decrease in energy usage by 2,746 kWh (4.9% reduction). New LED lighting was installed during these months, which may have contributed to the energy savings. However, AC units were installed throughout the school where there was previously no form of mechanical cooling. This led to energy usage has increasing by 16,091 kWh (11.9% increase) from the months of July 2018-April 2019. Bills have not been available since Feb 22nd, 2019, thus cost comparison will be delayed until billing is up to date.

Energy kWh Savings

-16.09K

Purchased Utility Cost Savings

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IES Indoor Environmental Services
sitelogiq

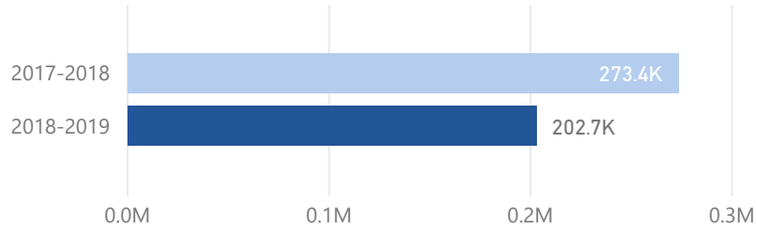
Roosevelt Elementary School

Site Energy Comparison Roosevelt Elementary

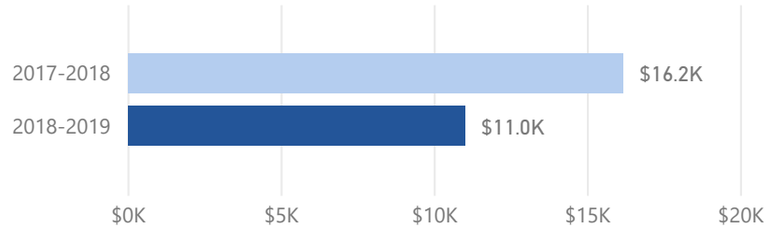
Roosevelt Elementary Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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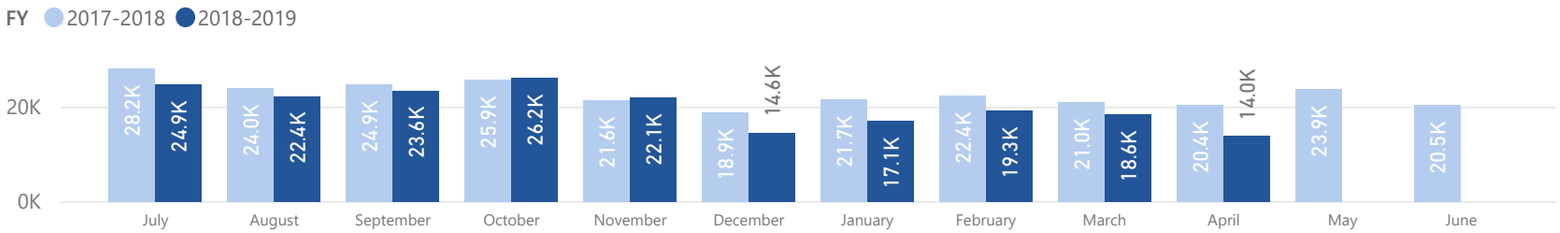
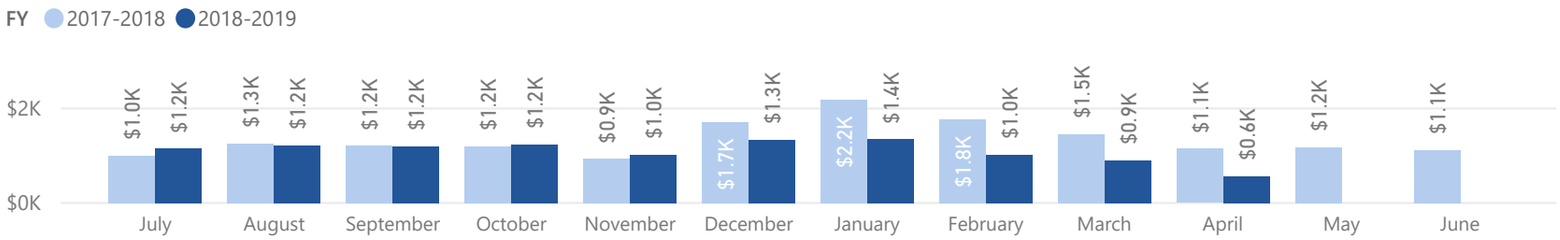
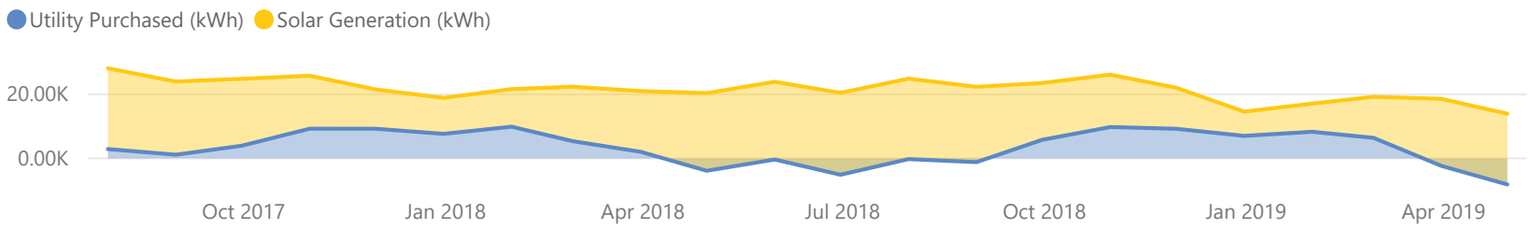
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, Roosevelt showed an decrease in energy usage of 19.4%, yielding a savings of about $2,704. New LED lighting was installed during these months, which may have contributed to the energy savings. From the months of July 2018-April 2019, about 26,214 kWh (11.4% reduction) and $2,858 has been saved.

Energy kWh Savings

26.21K

Purchased Utility Cost Savings

$2.86K

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IES Indoor Environmental Services
sitelogiq

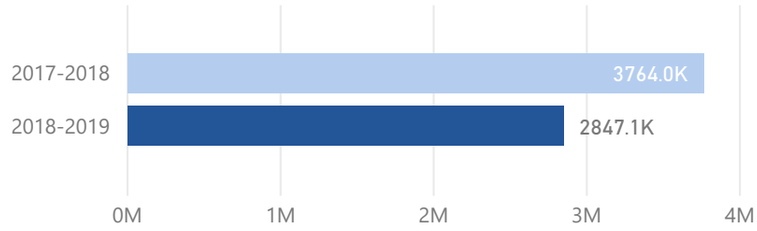
SANTA MONICA HIGH SCHOOL
601 Pico Boulevard . Santa Monica CA 90405 . 310-395-3204

Site Energy Comparison Santa Monica HS (SAMOHI)

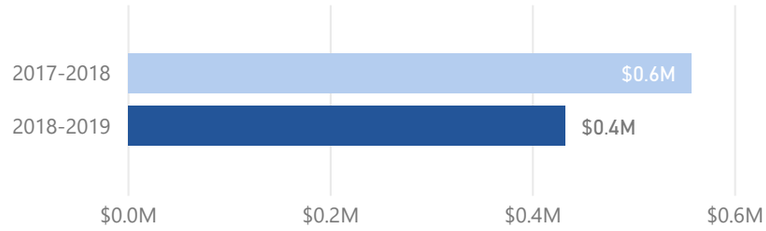
Santa Monica HS Energy Totals

All

Total Electric kWh by Fiscal Year

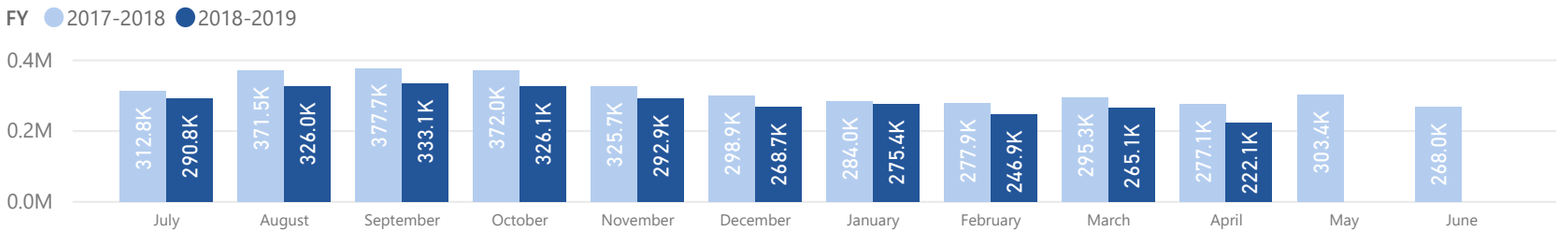


Total Electric Cost by Fiscal Year

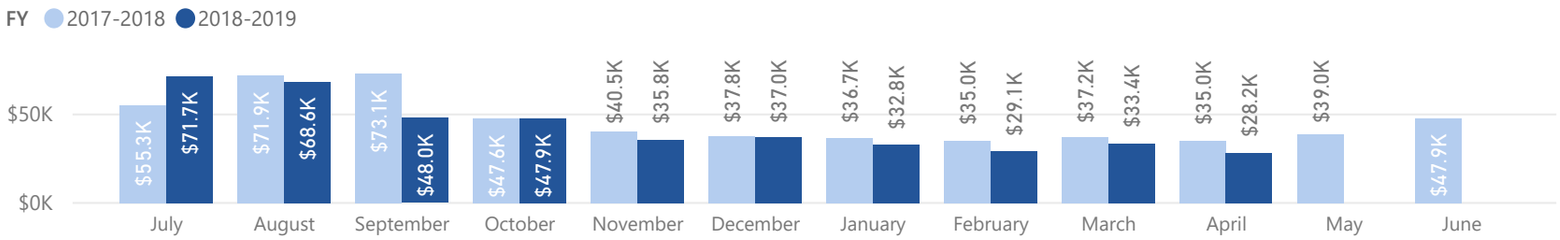


Fiscal Year 2017-18 (July 2017 to June 2018) is the Baseline Year for comparison to the current year's usage.

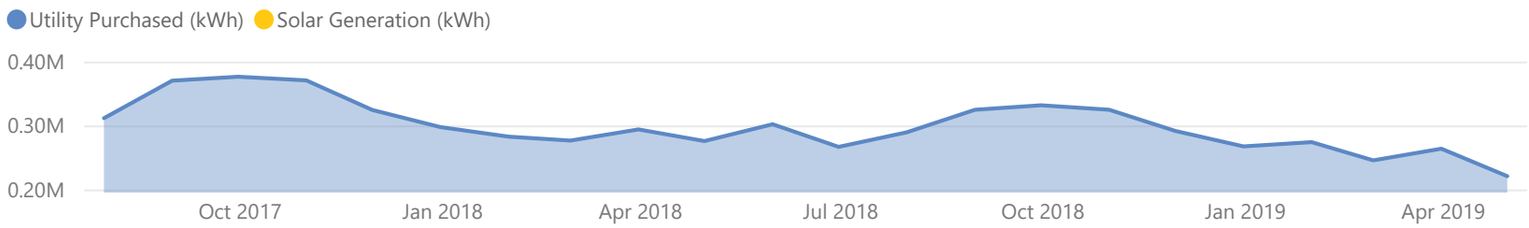
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, SAMOHI showed an decrease in energy usage of 11.0%, yielding a savings of about $20,414. New LED lighting was installed during these months, which may have contributed to the energy savings. Additionally, a large portion of the school is currently under construction, which may account for part of the high energy reduction. From the months of July 2018-April 2019, about 345,476 kWh (11.4% reduction) and $37,740 has been saved.

Energy kWh Savings

345.5K

Purchased Utility Cost Savings

$37.74K

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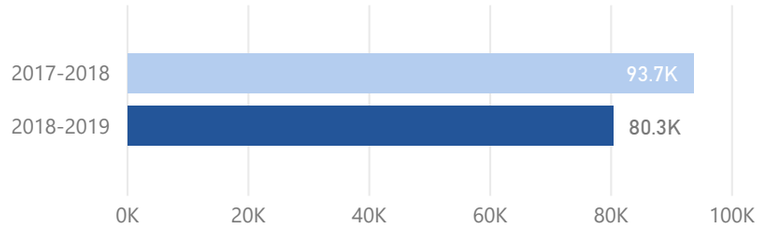
Site Energy Comparison
Washington Pre-School / FIP

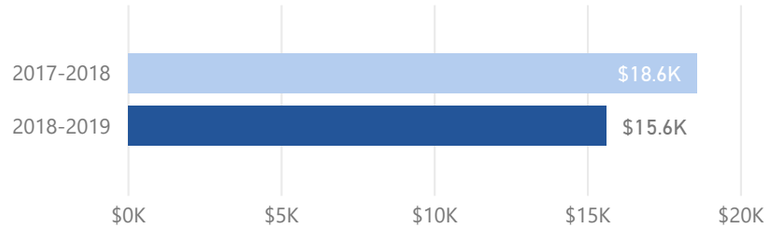
Washington Pre-School / FIP Office Energy Totals

All

Total Electric kWh by Fiscal Year



Total Electric Cost by Fiscal Year



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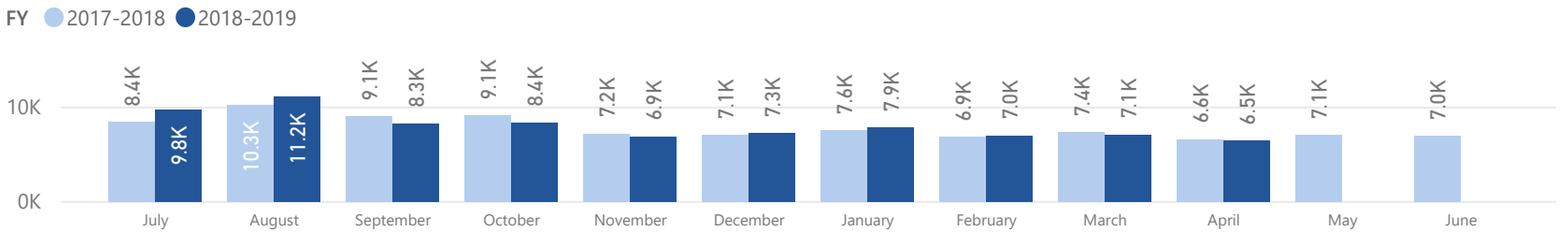
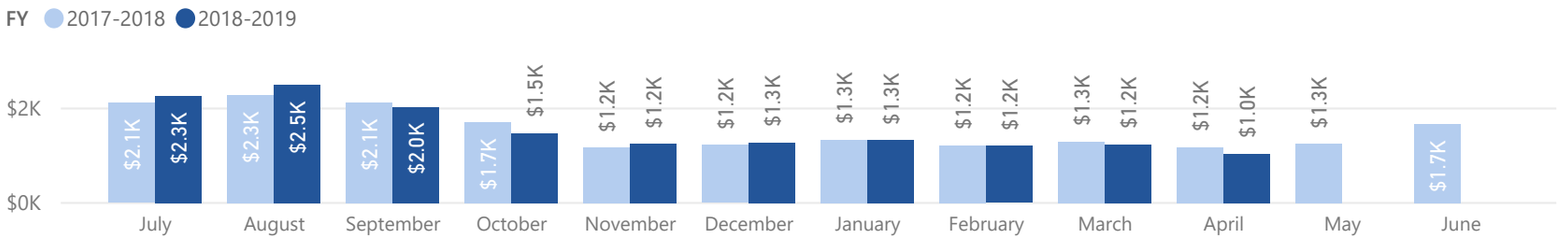
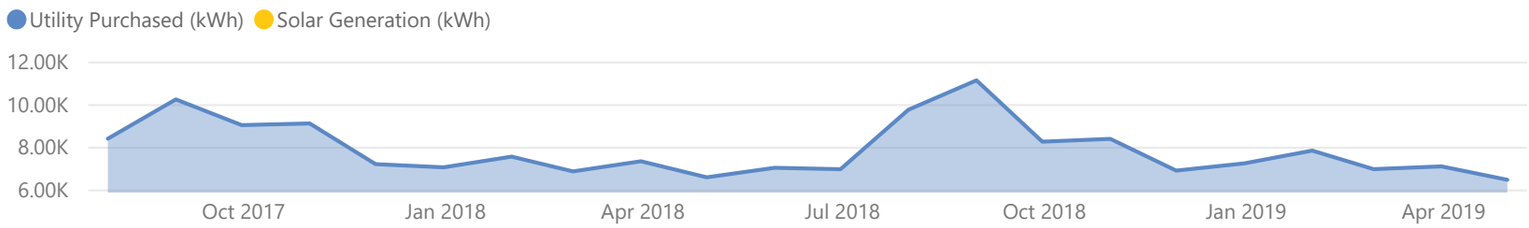
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, Washington Pre/FIP site showed an increase in energy usage of 0.1%, but yielding a savings of about $195. New LED lighting was installed during these months, which may have contributed to the energy savings. From the months of July 2018-April 2019, energy has increased by 667 kWh (0.8% increase) and $38.

Energy kWh Savings

-0.668K

Purchased Utility Cost Savings

$0.038K

IES Indoor Environmental Services
sitelogiq

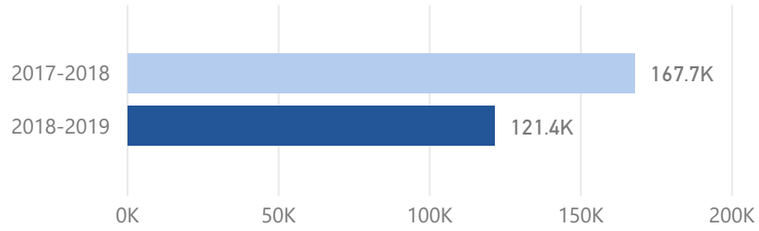
John L. Webster Elementary School

Site Energy Comparison Webster Elementary

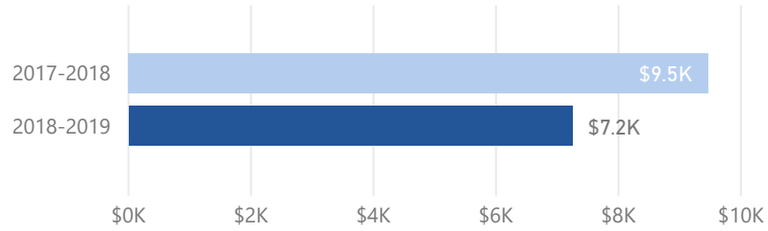
Webster Elementary Energy Totals

All

Total Electric kWh by Fiscal Year

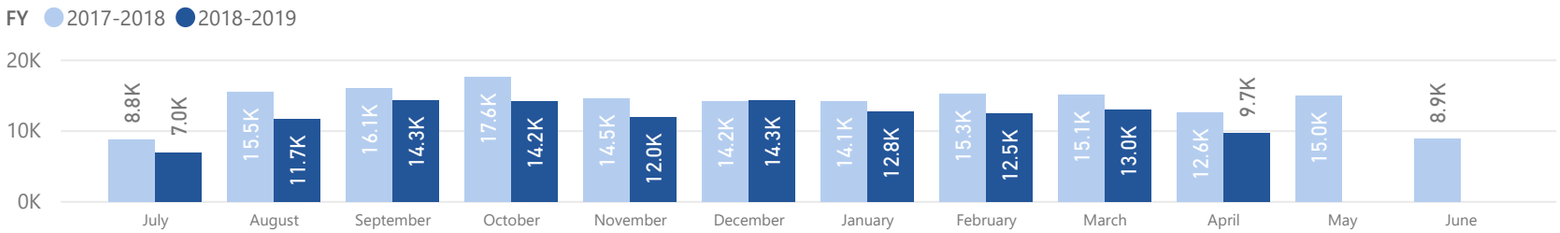


Total Electric Cost by Fiscal Year

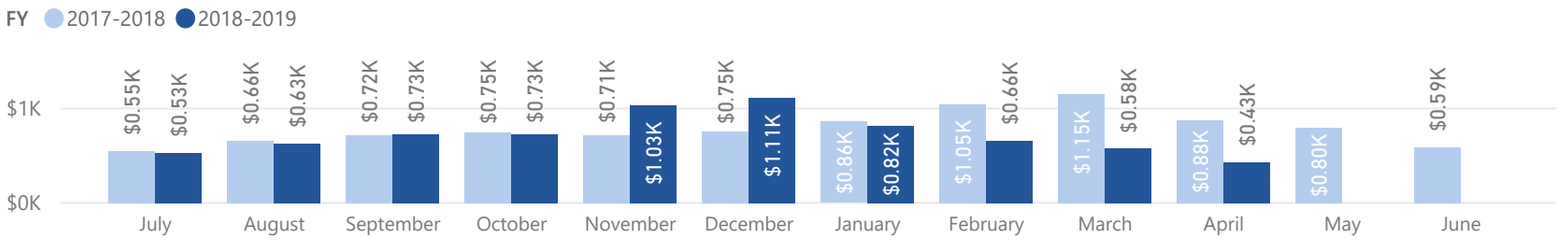


Fiscal Year 2017-18 (July 2017 to June 2018) is the Baseline Year for comparison to the current year's usage.

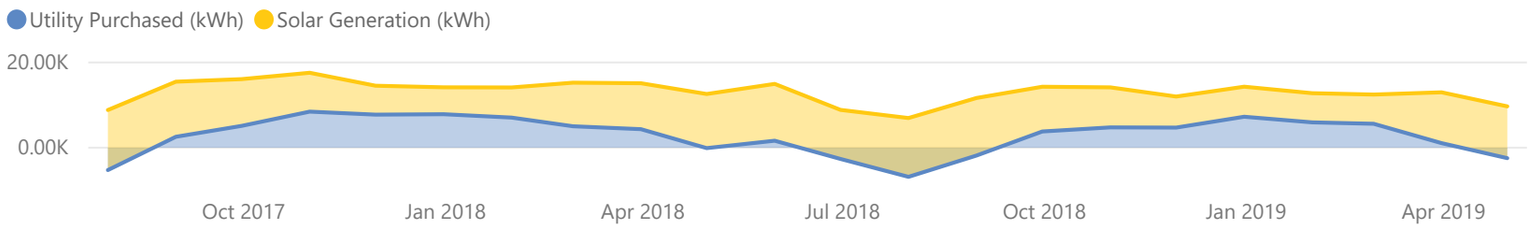
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, Webster, showed a decrease in energy usage of 16.0%, yielding a savings of about $1,445. New LED lighting was installed during these months, which may have contributed to the energy savings. From the months of July 2018-April 2019, about 22,463 kWh (15.6% reduction) and $834 has been saved.

Energy kWh Savings

22.463K

Purchased Utility Cost Savings

$0.834K

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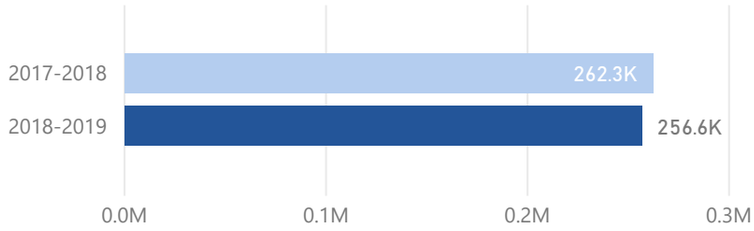
Site Energy Comparison
Will Rogers Elementary

Will Rogers Learning Community
A STEM Focus School

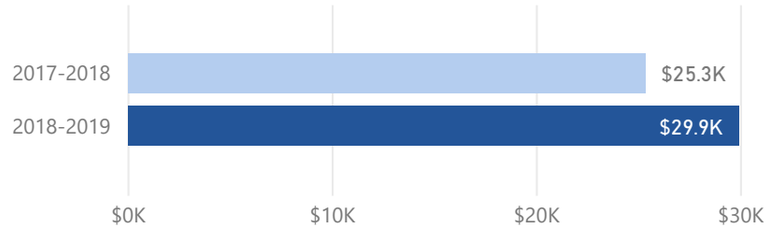
Will Rogers Elementary Energy Totals

All

Total Electric kWh by Fiscal Year

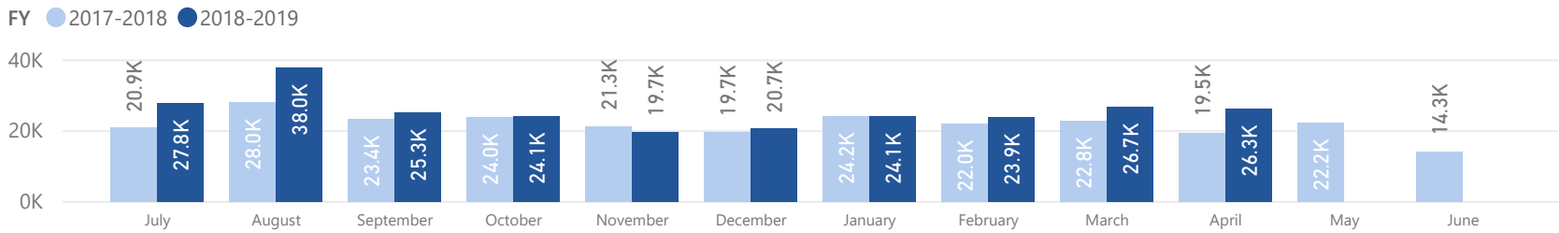


Total Electric Cost by Fiscal Year

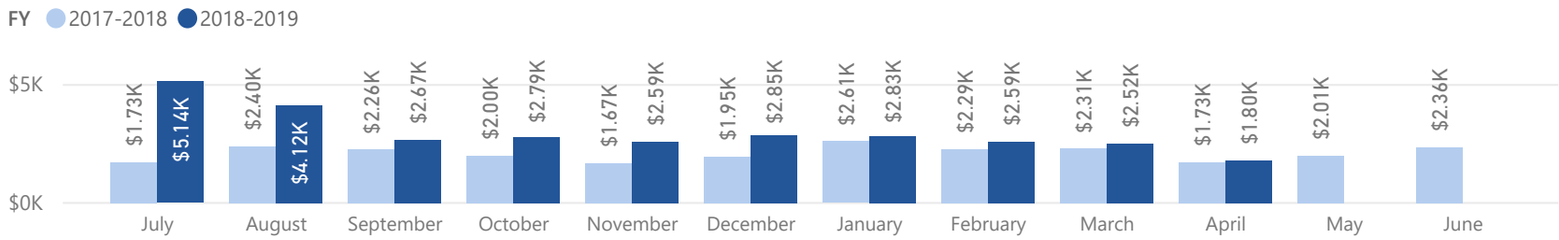


Fiscal Year 2017-18 (July 2017 to June 2018) is the Baseline Year for comparison to the current year's usage.

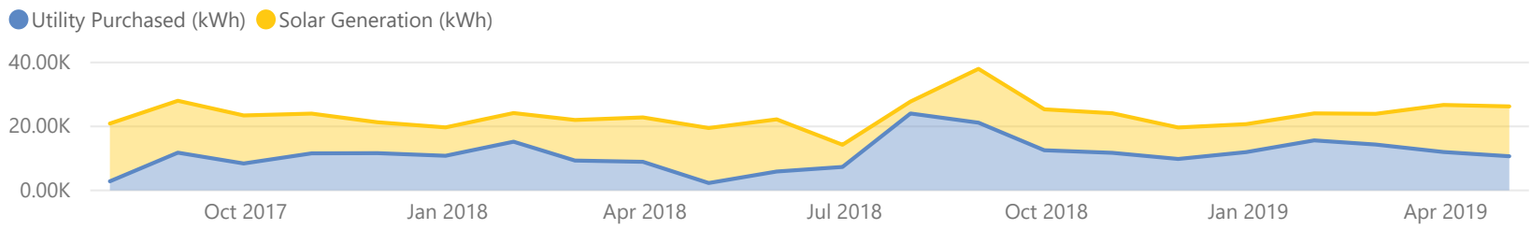
Total Electric kWh by Month and Fiscal Year



Total Electric Cost ($) by Month



Total Energy Use (kWh) by Month



Site Overview

In the months of January through April 2019, Will Rogers showed an increase in energy usage of 14.1%, yielding a loss of about $800. New LED lighting was installed during these months, which may have contributed to the energy savings, though savings may have been offset by increased HVAC usage. From the months of July 2018-April 2019, energy has increased by 30,749 kWh (13.6% increase) and an increase in cost of $8,948.

Energy kWh Savings

-30.7K

Purchased Utility Cost Savings

($8.95K)

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