

# Energy Benchmarking Report

## Sample School District

May 2018 to April 2019

District Information	
<b>Total Floor Area:</b> (Gross Building SF)	805,000
<b>Number of Students:</b>	4,800
<b>Total Buildings:</b>	4
<b>Total Energy Consumption*:</b> (kBtu)	57,589,967
<b>Total Carbon Emissions*:</b> (CO <sub>2</sub> e Metric Tons)	2,727.01
<b>Total Energy Cost*:</b>	\$406,786

\*Represents all benchmarked buildings' consumption during the most recent period.

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## NYSERDA's P-12 Schools Initiative

NYSERDA's P-12 Schools Initiative encourages schools to lower energy use and utility bills while reducing greenhouse gas emissions. This initiative promotes educating, guiding, and assisting schools to implement clean energy projects and commit to sustainability-focused principles at their facilities and in the classroom. Benchmarking your energy use is the first step in understanding how you can save energy and make educated investments to improve your school's operation, efficiency, and environment.

**Visit the following link to learn more about additional programs and resources to help you take the next step in improving your efficiency:** <https://www.nyserra.ny.gov/All-Programs/Programs/P-12-Initiative>

### Introduction

This energy benchmarking report summarizes your building(s) energy consumption, costs, and greenhouse gas emissions in ways that are easy to understand, while also allowing you to see how your building(s) compares to other similar buildings nationally and across New York State. The information presented in this report is based on utility data you provided which was entered into NYSEERDA's P-12 Schools Benchmarking Tool.

### Definitions

#### Energy Benchmarking

Energy Benchmarking is a process of measuring and analyzing a building's utility costs, greenhouse gas emissions, and energy use over time, compared to an energy model, or relative to other buildings.

#### Baseline Comparison<sup>1</sup>

The Baseline Comparison demonstrates how your building's performance has changed over time. The energy consumption is weather-normalized, meaning weather is removed as a variable in the comparison. This allows you to know that an increase or decrease in energy consumption is due to building operations or changes in the building systems, rather than weather.

#### ENERGY STAR® Portfolio Manager® Score

The ENERGY STAR score provides a comprehensive snapshot of a building's energy use compared to similar buildings nationwide. Buildings with a score of 75 or higher may be eligible for ENERGY STAR certification.

#### Peer Comparison<sup>1</sup>

The Peer Comparison provides a 1-100 percentile ranking of a school's index ratio compared to other New York State schools participating in the P-12 Schools Initiative – Benchmarking Program that have similar space usage or primary building type.

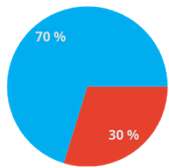
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<sup>1</sup> These benchmarks are available and included in reports after your energy data has been benchmarked for at least six months

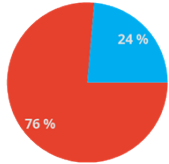
## Sample School District



### Total Energy Consumption & Cost

The tables and charts below represent your district's total energy consumption, greenhouse gas emissions<sup>2</sup>, and energy costs by energy source over the period May 2018 to April 2019.











	Total Consumption	Total Consumption (kBtu)	CO2e Metric Tons	CO2e/Student
 Electric	5,020,777 kWh	17,130,893	578	0.12
 Natural Gas	404,591 Therms	40,459,075	2,149	0.45
<b>Total</b>		<b>57,589,967</b>	<b>2,727</b>	<b>0.57</b>



	Total Energy Cost (\$)	\$/SF	\$/Student
 Electric	\$310,693	\$0.39	\$64.73
 Natural Gas	\$96,093	\$0.12	\$20.02
<b>Total</b>	<b>\$406,786</b>	<b>\$0.51</b>	<b>\$84.75</b>

### Baseline Comparison

The Baseline Comparison demonstrates how your building performance has changed over time compared to May 2018 - Apr 2019. For the comparison year, your energy consumption is weather-normalized, meaning weather is removed as a variable in the comparison. This allows you to know that an increase or decrease in energy consumption is due to building operations or changes in the building systems, rather than weather.

Name	Baseline (kBtu/SF)	Current (kBtu/SF)*	Consumption % Change	Baseline CO2e (Metric Tons)	Current CO2e (Metric Tons)*	CO2e % Change
Elementary School	62.38	65.84	 +5.56%	353.23	382.96	 +8.42%
Junior/Senior High School	71.30	71.30	 0.00%	1,434.00	1,434.00	 0.00%
Middle School	61.64	61.64	 0.00%	428.29	428.29	 0.00%
Primary School	95.51	95.51	 0.00%	511.49	511.49	 0.00%

\*Weather normalized to baseline period weather.

<sup>2</sup> Greenhouse gas emissions are calculated using data compiled from the Emissions & Generation Resource Integrated Database (eGRID).

**ENERGY STAR® Portfolio Manager® Score**

The table below lists the ENERGY STAR score for each building in your district. The ENERGY STAR score is on a scale of 1 to 100, where the higher score represents the more energy efficient building. The national average score for K-12 school buildings is 67<sup>3</sup>. Buildings with an ENERGY STAR score of 75 or higher may be eligible for ENERGY STAR certification. For more information contact your Benchmarking Consultant or visit: <https://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/earn-recognition/energy-star-certification/how-app-1>

<b>Name</b>	<b>Building Type</b>	<b>ENERGY STAR Score</b>
Primary School	Elementary School	30
Junior/Senior High School	High School	55
Middle School	Middle School	66
Elementary School	Elementary School	67

<sup>3</sup> The national average is based on K-12 schools nationwide, sourced from data collected by the U.S. Environmental Protection Agency (EPA) and last updated in August 2018.

# Energy Benchmarking Report Elementary School

June 2019 to May 2020

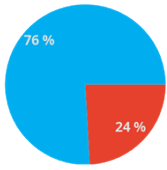
Building Information	
<b>Total Floor Area:</b> (Gross Building SF)	120,000
<b>Number of Students:</b>	500
<b>Total Energy Consumption*:</b> (kBtu)	7,394,057
<b>Total Carbon Emissions*:</b> (CO <sub>2</sub> e Metric Tons)	358.18
<b>Total Energy Cost*:</b>	\$57,151



\*Represents building consumption during the most recent period.

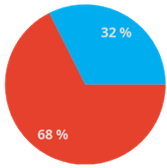
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### Total Energy Consumption & Cost

The tables and charts below represent this building's total energy consumption, greenhouse gas emissions<sup>4</sup>, and energy costs by energy source over the period June 2019 to May 2020.



	Total Consumption	Total Consumption (kBtu)	CO2e Metric Tons	CO2e/Student
 Electric	522,789 kWh	1,783,757	60	0.12
 Natural Gas	56,103 Therms	5,610,300	298	0.60
<b>Total</b>		<b>7,394,057</b>	<b>358</b>	<b>0.72</b>



	Energy Cost (\$)	\$/SF	\$/Student
 Electric	\$38,634	\$0.32	\$77.27
 Natural Gas	\$18,517	\$0.15	\$37.03
<b>Total</b>	<b>\$57,151</b>	<b>\$0.48</b>	<b>\$114.30</b>

### Baseline Comparison

#### How has your building performance changed over time?

The Baseline Comparison demonstrates how your building performance has changed over time, compared to May 2018 - Apr 2019. For the comparison, your energy consumption is weather-normalized, meaning weather is removed as a variable in the comparison. This allows you to know that an increase or decrease in energy consumption is due to building operations or changes in the building systems, rather than weather.

#### Baseline Comparison



This site is using more energy than the baseline period.

#### Electric Baseline Comparison



This site is using less electricity than the baseline period.

#### Other Fuels Baseline Comparison

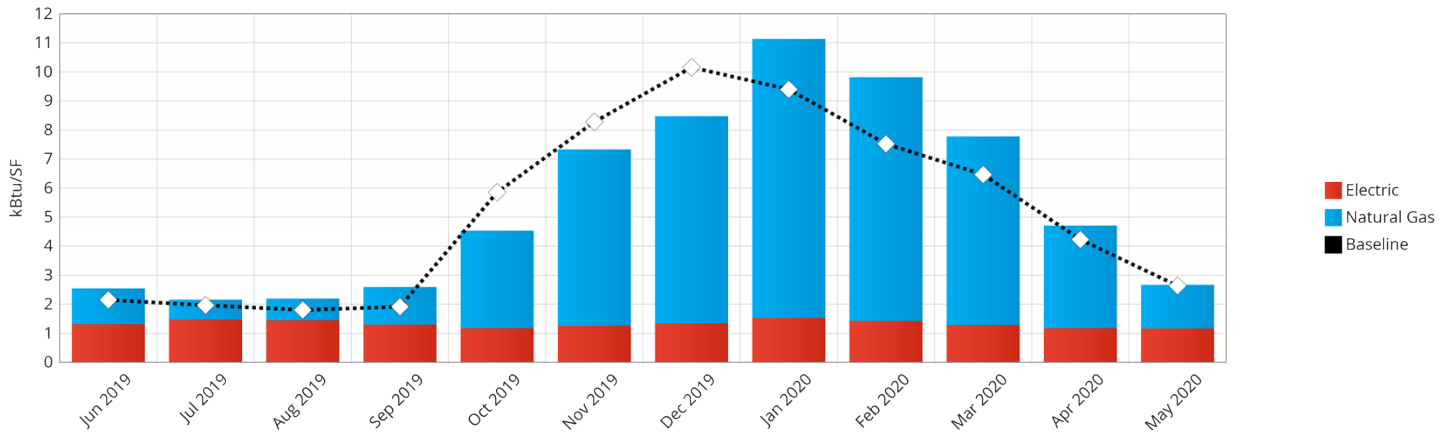


This site is using more energy from non-electric fuel sources than the baseline period.

<sup>4</sup> Greenhouse gas emissions are calculated using data compiled from the Emissions & Generation Resource Integrated Database (eGRID).

The following chart demonstrates how this building has been performing since participating in the P-12 Schools Initiative – Benchmarking Program.

**Comparing the most recent 12-month period to the baseline period May 2018 - Apr 2019**



Dotted baseline represents the summation of all energy source types.

### ENERGY STAR Portfolio Manager Score

#### How has this building performed compared to other similar buildings nationwide?

The table below states this building’s ENERGY STAR score and how it compares to an ENERGY STAR building and the national average score for K-12 schools.

The ENERGY STAR score is on a scale of 1 to 100, where the higher score represents the more energy efficient the building. The national average score for K-12 school buildings is 67<sup>5</sup>. Buildings with an ENERGY STAR score of 75 or higher may be eligible for ENERGY STAR certification. For more information contact your Benchmarking Consultant or visit:

<https://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/earn-recognition/energy-star-certification/how-app-1>

ENERGY STAR Portfolio Manager Score	Energy Star Building
	75
<b>67</b>	National Average
	67

<sup>5</sup> The national average is based on K-12 schools nationwide, sourced from data collected by the U.S. Environmental Protection Agency (EPA) and last updated in August 2018.



Peer Comparison

**How does your building performance compare to other schools participating in NYSERDA's P-12 Schools Initiative – Benchmarking Program?**

The Peer Comparison provides a 1-100 percentile ranking of a school's energy use by comparing it to other New York State schools participating in NYSERDA's P-12 Schools Initiative – Benchmarking Program with similar space usage. A ranking of 50 is the median. A ranking above 50 means it's performing better than 50 percent of its peers.

**B3 Peer Rating**

**56**

This site is ranked in the upper 56th percentile amongst 100 similar sites.

If this building is using more energy than your peers, it may be a good candidate for an energy study<sup>6</sup>. Completing an energy study can help you identify and evaluate opportunities to reduce energy costs and incorporate clean energy into your capital planning.

<sup>6</sup> P-12 schools are eligible for NYSERDA's Green and Clean Energy Solutions program which shares the cost to complete a targeted energy study on how to best implement clean energy and/or energy efficiency technologies in your building.

# Energy Benchmarking Report Junior/Senior High School

May 2018 to April 2019

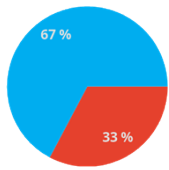
Building Information	
<b>Total Floor Area:</b> (Gross Building SF)	430,000
<b>Number of Students:</b>	2,300
<b>Total Energy Consumption*:</b> (kBtu)	30,660,513
<b>Total Carbon Emissions*:</b> (CO <sub>2</sub> e Metric Tons)	1,434.00
<b>Total Energy Cost*:</b>	\$190,253

\*Represents building consumption during the most recent period.

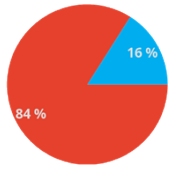
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## Total Energy Consumption & Cost

The tables and charts below represent this building's total energy consumption, greenhouse gas emissions<sup>7</sup>, and energy costs by energy source over the period May 2018 to April 2019.



	Total Consumption	Total Consumption (kBtu)	CO2e Metric Tons	CO2e/Student
Electric	2,942,972 kWh	10,041,419	339	0.15
Natural Gas	206,191 Therms	20,619,095	1,095	0.48
<b>Total</b>		<b>30,660,513</b>	<b>1,434</b>	<b>0.62</b>



	Energy Cost (\$)	\$/SF	\$/Student
Electric	\$159,782	\$0.37	\$69.47
Natural Gas	\$30,471	\$0.07	\$13.25
<b>Total</b>	<b>\$190,253</b>	<b>\$0.44</b>	<b>\$82.72</b>

## Baseline Comparison

### How has your building performance changed over time?

The Baseline Comparison demonstrates how your building performance has changed over time, compared to May 2018 - Apr 2019. For the comparison, your energy consumption is weather-normalized, meaning weather is removed as a variable in the comparison. This allows you to know that an increase or decrease in energy consumption is due to building operations or changes in the building systems, rather than weather.

**Baseline Comparison**

**N/A**

This site is operating the same as the baseline period.

**Electric Baseline Comparison**

**0.00%**

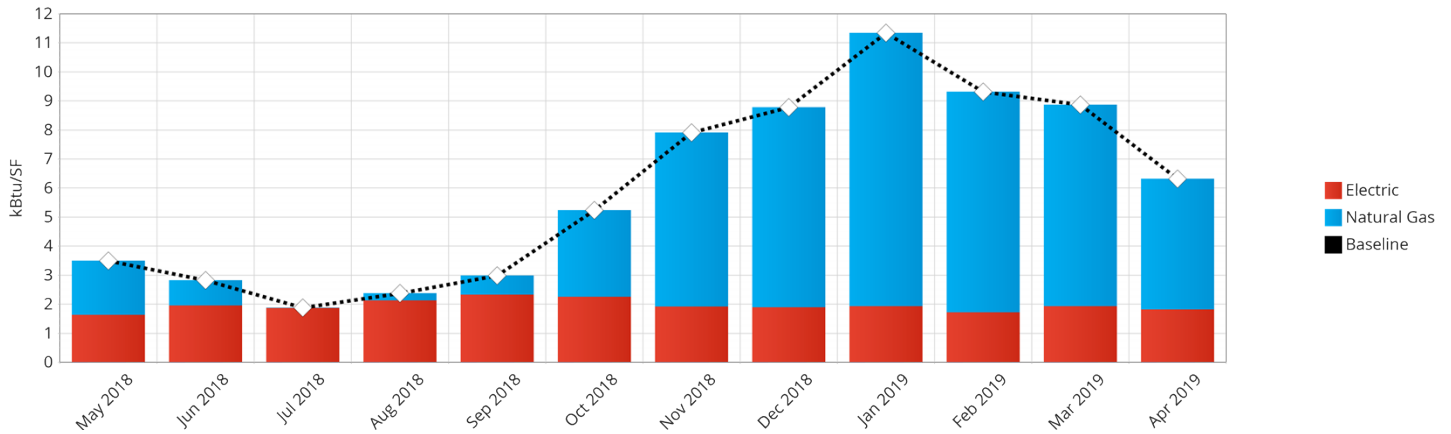
**Other Fuels Baseline Comparison**

**0.00%**

<sup>7</sup> Greenhouse gas emissions are calculated using data compiled from the Emissions & Generation Resource Integrated Database (eGRID).

The following chart demonstrates how this building has been performing since participating in the P-12 Schools Initiative – Benchmarking Program.

Comparing the most recent 12-month period to the baseline period May 2018 - Apr 2019



Dotted baseline represents the summation of all energy source types.

### ENERGY STAR Portfolio Manager Score

#### How has this building performed compared to other similar buildings nationwide?

The table below states this building’s ENERGY STAR score and how it compares to an ENERGY STAR building and the national average score for K-12 schools.

The ENERGY STAR score is on a scale of 1 to 100, where the higher score represents the more energy efficient the building. The national average score for K-12 school buildings is 67<sup>8</sup>. Buildings with an ENERGY STAR score of 75 or higher may be eligible for ENERGY STAR certification. For more information contact your Benchmarking Consultant or visit:

<https://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/earn-recognition/energy-star-certification/how-app-1>

ENERGY STAR Portfolio Manager Score	Energy Star Building
	75
55	National Average
	67

<sup>8</sup> The national average is based on K-12 schools nationwide, sourced from data collected by the U.S. Environmental Protection Agency (EPA) and last updated in August 2018.

Peer Comparison

**How does your building performance compare to other schools participating in NYSERDA's P-12 Schools Initiative – Benchmarking Program?**

The Peer Comparison provides a 1-100 percentile ranking of a school's energy use by comparing it to other New York State schools participating in NYSERDA's P-12 Schools Initiative – Benchmarking Program with similar space usage. A ranking of 50 is the median. A ranking above 50 means it's performing better than 50 percent of its peers.

**B3 Peer Rating**

**61**

This site is ranked in the upper 61st percentile amongst 108 similar sites.

If this building is using more energy than your peers, it may be a good candidate for an energy study<sup>9</sup>. Completing an energy study can help you identify and evaluate opportunities to reduce energy costs and incorporate clean energy into your capital planning.

<sup>9</sup> P-12 schools are eligible for NYSERDA's Green and Clean Energy Solutions program which shares the cost to complete a targeted energy study on how to best implement clean energy and/or energy efficiency technologies in your building.

# Energy Benchmarking Report

## Middle School

May 2018 to April 2019

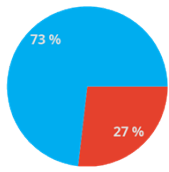
Building Information	
<b>Total Floor Area:</b> (Gross Building SF)	145,000
<b>Number of Students:</b>	1,000
<b>Total Energy Consumption*:</b> (kBtu)	8,938,195
<b>Total Carbon Emissions*:</b> (CO <sub>2</sub> e Metric Tons)	428.29
<b>Total Energy Cost*:</b>	\$77,066

\*Represents building consumption during the most recent period.

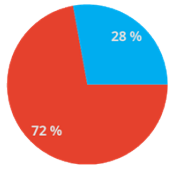
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### Total Energy Consumption & Cost

The tables and charts below represent this building's total energy consumption, greenhouse gas emissions<sup>10</sup>, and energy costs by energy source over the period May 2018 to April 2019.



	Total Consumption	Total Consumption (kBtu)	CO2e Metric Tons	CO2e/Student
Electric	702,925 kWh	2,398,380	81	0.08
Natural Gas	65,398 Therms	6,539,815	347	0.35
<b>Total</b>		<b>8,938,195</b>	<b>428</b>	<b>0.43</b>



	Energy Cost (\$)	\$/SF	\$/Student
Electric	\$55,602	\$0.38	\$55.60
Natural Gas	\$21,464	\$0.15	\$21.46
<b>Total</b>	<b>\$77,066</b>	<b>\$0.53</b>	<b>\$77.07</b>

### Baseline Comparison

#### How has your building performance changed over time?

The Baseline Comparison demonstrates how your building performance has changed over time, compared to May 2018 - Apr 2019. For the comparison, your energy consumption is weather-normalized, meaning weather is removed as a variable in the comparison. This allows you to know that an increase or decrease in energy consumption is due to building operations or changes in the building systems, rather than weather.

#### Baseline Comparison



This site is operating the same as the baseline period.

#### Electric Baseline Comparison



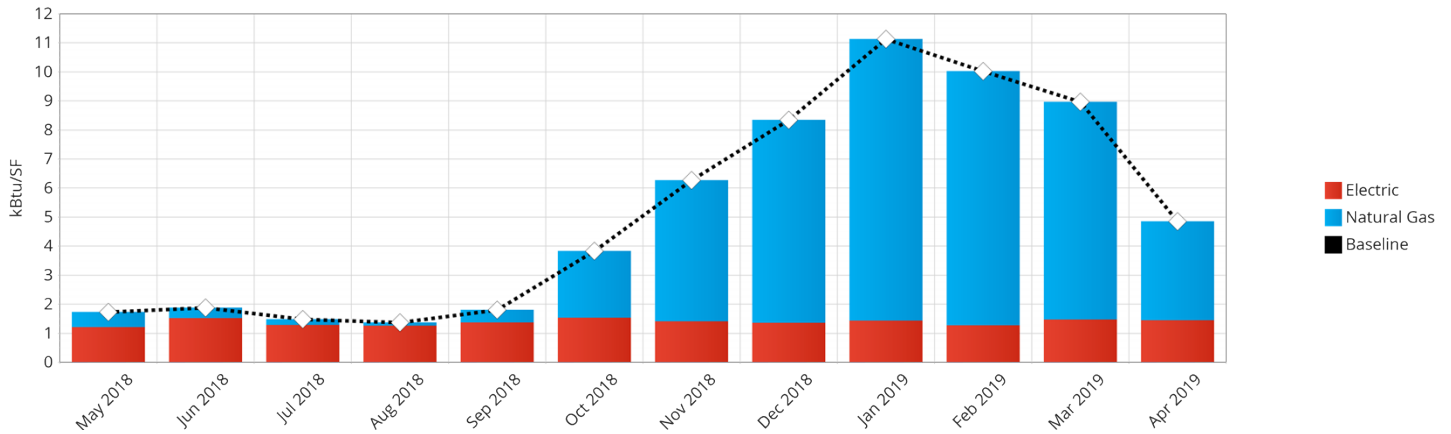
#### Other Fuels Baseline Comparison



<sup>10</sup> Greenhouse gas emissions are calculated using data compiled from the Emissions & Generation Resource Integrated Database (eGRID).

The following chart demonstrates how this building has been performing since participating in the P-12 Schools Initiative – Benchmarking Program.

Comparing the most recent 12-month period to the baseline period May 2018 - Apr 2019



Dotted baseline represents the summation of all energy source types.

### ENERGY STAR Portfolio Manager Score

#### How has this building performed compared to other similar buildings nationwide?

The table below states this building’s ENERGY STAR score and how it compares to an ENERGY STAR building and the national average score for K-12 schools.

The ENERGY STAR score is on a scale of 1 to 100, where the higher score represents the more energy efficient the building. The national average score for K-12 school buildings is 67<sup>11</sup>. Buildings with an ENERGY STAR score of 75 or higher may be eligible for ENERGY STAR certification. For more information contact your Benchmarking Consultant or visit:

<https://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/earn-recognition/energy-star-certification/how-app-1>

ENERGY STAR Portfolio Manager Score	Energy Star Building
	75
66	National Average
	67

<sup>11</sup> The national average is based on K-12 schools nationwide, sourced from data collected by the U.S. Environmental Protection Agency (EPA) and last updated in August 2018.



## Peer Comparison

### How does your building performance compare to other schools participating in NYSERDA's P-12 Schools Initiative – Benchmarking Program?

The Peer Comparison provides a 1-100 percentile ranking of a school's energy use by comparing it to other New York State schools participating in NYSERDA's P-12 Schools Initiative – Benchmarking Program with similar space usage. A ranking of 50 is the median. A ranking above 50 means it's performing better than 50 percent of its peers.

#### B3 Peer Rating

**46**

This site is ranked in the lower 46th percentile amongst 151 similar sites.

If this building is using more energy than your peers, it may be a good candidate for an energy study<sup>12</sup>. Completing an energy study can help you identify and evaluate opportunities to reduce energy costs and incorporate clean energy into your capital planning.

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<sup>12</sup> P-12 schools are eligible for NYSERDA's Green and Clean Energy Solutions program which shares the cost to complete a targeted energy study on how to best implement clean energy and/or energy efficiency technologies in your building.

# Energy Benchmarking Report

## Primary School

May 2018 to April 2019

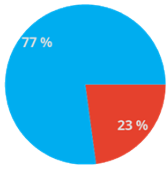
Building Information	
<b>Total Floor Area:</b> (Gross Building SF)	110,000
<b>Number of Students:</b>	1,000
<b>Total Energy Consumption*:</b> (kBtu)	10,506,089
<b>Total Carbon Emissions*:</b> (CO <sub>2</sub> e Metric Tons)	511.49
<b>Total Energy Cost*:</b>	\$74,429



\*Represents building consumption during the most recent period.

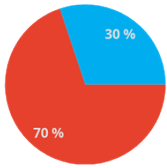
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### Total Energy Consumption & Cost

The tables and charts below represent this building's total energy consumption, greenhouse gas emissions<sup>13</sup>, and energy costs by energy source over the period May 2018 to April 2019.



	Total Consumption	Total Consumption (kBtu)	CO2e Metric Tons	CO2e/Student
 Electric	704,022 kWh	2,402,124	81	0.08
 Natural Gas	81,040 Therms	8,103,965	430	0.43
<b>Total</b>		<b>10,506,089</b>	<b>511</b>	<b>0.51</b>



	Energy Cost (\$)	\$/SF	\$/Student
 Electric	\$52,003	\$0.47	\$52.00
 Natural Gas	\$22,427	\$0.20	\$22.43
<b>Total</b>	<b>\$74,429</b>	<b>\$0.68</b>	<b>\$74.43</b>

### Baseline Comparison

#### How has your building performance changed over time?

The Baseline Comparison demonstrates how your building performance has changed over time, compared to May 2018 - Apr 2019. For the comparison, your energy consumption is weather-normalized, meaning weather is removed as a variable in the comparison. This allows you to know that an increase or decrease in energy consumption is due to building operations or changes in the building systems, rather than weather.

#### Baseline Comparison



This site is operating the same as the baseline period.

#### Electric Baseline Comparison



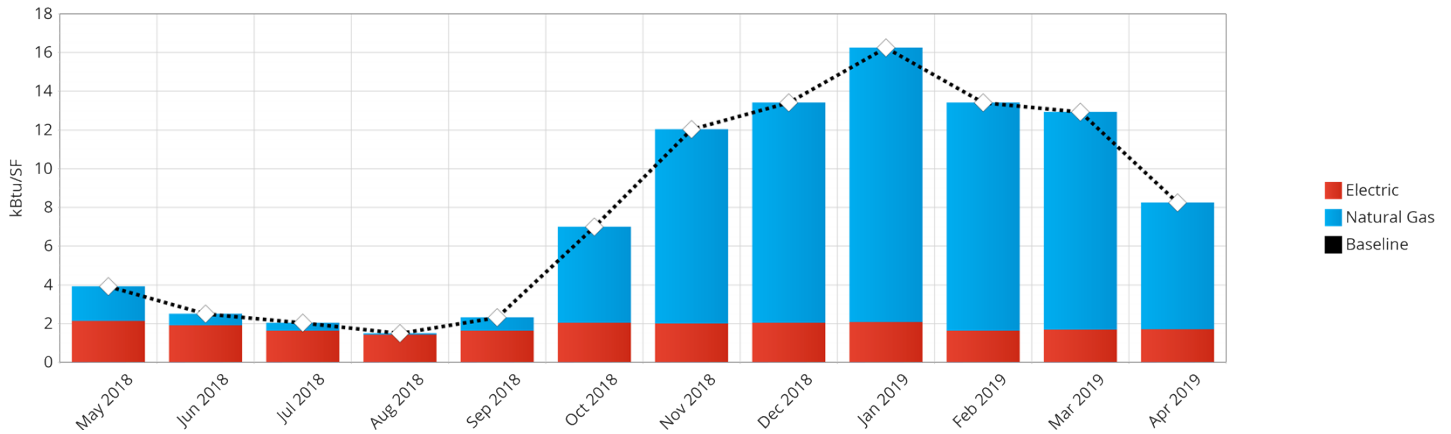
#### Other Fuels Baseline Comparison



<sup>13</sup> Greenhouse gas emissions are calculated using data compiled from the Emissions & Generation Resource Integrated Database (eGRID).

The following chart demonstrates how this building has been performing since participating in the P-12 Schools Initiative – Benchmarking Program.

Comparing the most recent 12-month period to the baseline period May 2018 - Apr 2019



Dotted baseline represents the summation of all energy source types.

### ENERGY STAR Portfolio Manager Score

#### How has this building performed compared to other similar buildings nationwide?

The table below states this building’s ENERGY STAR score and how it compares to an ENERGY STAR building and the national average score for K-12 schools.

The ENERGY STAR score is on a scale of 1 to 100, where the higher score represents the more energy efficient the building. The national average score for K-12 school buildings is 67<sup>14</sup>. Buildings with an ENERGY STAR score of 75 or higher may be eligible for ENERGY STAR certification. For more information contact your Benchmarking Consultant or visit: <https://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/earn-recognition/energy-star-certification/how-app-1>

ENERGY STAR Portfolio Manager Score	Energy Star Building
	75
30	National Average
	67

<sup>14</sup> The national average is based on K-12 schools nationwide, sourced from data collected by the U.S. Environmental Protection Agency (EPA) and last updated in August 2018.

Peer Comparison

**How does your building performance compare to other schools participating in NYSERDA's P-12 Schools Initiative – Benchmarking Program?**

The Peer Comparison provides a 1-100 percentile ranking of a school's energy use by comparing it to other New York State schools participating in NYSERDA's P-12 Schools Initiative – Benchmarking Program with similar space usage. A ranking of 50 is the median. A ranking above 50 means it's performing better than 50 percent of its peers.

**B3 Peer Rating**

**10**

This site is ranked in the lower 10th percentile amongst 67 similar sites.

If this building is using more energy than your peers, it may be a good candidate for an energy study<sup>15</sup>. Completing an energy study can help you identify and evaluate opportunities to reduce energy costs and incorporate clean energy into your capital planning.

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<sup>15</sup> P-12 schools are eligible for NYSERDA's Green and Clean Energy Solutions program which shares the cost to complete a targeted energy study on how to best implement clean energy and/or energy efficiency technologies in your building.