

**Investments in Energy Management Strategies**

**Operations and Maintenance Strategies**

	2018--2019	2019-20	2020-2021	2021-2022	2022-2023
<b>Policy and Planning</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>
New School Design/Construction Guidelines and Specifications	\$ -	\$ -	\$ -	\$ -	\$ -
Day and Night Temperature Guidelines for all Schools	\$ -	\$ -	\$ -	\$ -	\$ -
Nighttime Blackout of Sites - Interior	\$ -	\$ -	\$ -	\$ -	\$ -
Nighttime Blackout of Sites - Exterior	\$ -	\$ -	\$ -	\$ -	\$ -
Procures Only Energy Star Certified Appliances	\$ -	\$ -	\$ -	\$ -	\$ -
Preventative Maintenance (re-commissioning, coil cleaning, filter changes)	\$ -	\$ -	\$ -	\$ -	\$ -
Daylight Harvesting (servicing)	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Ventilation (servicing)	\$ -	\$ -	\$ -	\$ -	\$ -
Water Leak Detection System	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Describe)	\$ -	\$ -	\$ -	\$ -	\$ -

	2018--2019	2019-20	2020-2021	2021-2022	2022-2023
<b>Energy Audits</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>
Walk Through Audit	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering Audit	\$ 40,000	\$ -	\$ -	\$ -	\$ -
Other (Describe)	0	0	0	0	0
<b>Total Investment in Operations and Maintenance Strategies</b>	<b>\$ 40,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

**Investments in Energy Management Strategies**

Press TAB to move to input area. Press UP or DOWN ARROW in column A to read through the document.

**Design, Construction and Retrofit Strategies**

	2018--2019	<del>2014-2015</del> 2019-20	2020-2021	2021-2022	2022-2023
<b>Lighting / Electrical</b>	<b>Investments in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>
High Efficiency Lighting Systems (D5020, D502001, D502003, D502004)	\$ 75,000	\$ -	\$ 65,000	\$ 260,000	\$ 60,000
Outdoor Lighting (D502004)	\$ -	\$ -	\$ -	\$ -	\$ -
Occupancy Sensors (D5021, D5022)	\$ -	\$ -	\$ -	\$ -	\$ -
Daylight Harvesting	\$ -	\$ -	\$ -	\$ -	\$ -
Dimming Switches	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Describe)				\$ -	\$ -

	2018--2019	<del>2014-2015</del> 2019-20	2020-2021	2021-2022	2022-2023
<b>HVAC</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>
Efficient Boilers (near condensing) (D3020, D302001, D302002)	\$ -	\$ -	\$ -	\$ -	\$ -
High-efficiency Boilers (condensing) (D3020, D302001, D302002)	\$ -	\$ -	\$ -	\$ -	\$ -
High-efficiency Boiler Burners (D3020)	\$ -	\$ -	\$ -	\$ -	\$ -
Geothermal (D302099 )	\$ -	\$ -	\$ -	\$ -	\$ -
Heat Recovery/Enthalpy Wheels (D3090)	\$ -	\$ -	\$ -	\$ -	\$ -
Economizers (D306002)	\$ -	\$ -	\$ -	\$ -	\$ -
Energy Efficient HVAC systems (D3050,D3040)	\$ 1,082,000	\$ 830,000	\$ 150,000	\$ -	\$ 450,000
Energy Efficient Rooftop Units (D302098)	\$ -	\$ -	\$ -	\$ -	\$ -
High Efficiency Domestic Hot Water (D2020)	\$ -	\$ -	\$ -	\$ -	\$ -
Efficient Chillers and Controls (D3030, D303011, D303012)	\$ -	\$ -	\$ -	\$ -	\$ -
High-efficiency Motors (D304007, D303011)	\$ -	\$ -	\$ -	\$ -	\$ -
VFD (D302056)	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Ventilation (D3040)	\$ -	\$ -	\$ -	\$ 1,861,604	\$ -
Entrance Heater Controls (D302099)	\$ -	\$ -	\$ -	\$ -	\$ -
Destratification Fans (D3090)	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Describe) IT Closet HVAC/Office Split	\$ -	\$ -	\$ -	\$ 21,100	\$ -

	2018--2019	<del>2014-2015</del> 2019-20	2020-2021	2021-2022	2022-2023
<b>Controls</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>
Building Automation Systems - New (D3060)	\$ -	\$ -	\$ -	\$ -	\$ -
Building Automation Systems - Upgrade (D3060)	\$ -	\$ -	\$ -	\$ -	\$ -
Real-time energy data for operators to identify and diagnose building issues	\$ -	\$ -	\$ -	\$ -	\$ -
Voltage Harmonizers (D501001)	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Describe)	\$ -	\$ -	\$ -	\$ -	\$ -

	2018--2019	<del>2014-2015</del> 2019-20	2020-2021	2021-2022	2022-2023
<b>Building Envelope</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>
Glazing (B302006, B2020, B3021)	\$ -	\$ -	\$ -	\$ -	\$ -
Increased Wall Insulation (B2010)	\$ -	\$ -	\$ -	\$ -	\$ -
New Roof (B3010, B3020)	\$ 888,000	\$ 1,330,000	\$ 430,000	\$ -	\$ -
New Windows (B2020)	\$ -	\$ -	\$ -	\$ -	\$ -
Treatments	\$ -	\$ -	\$ -	\$ -	\$ -
Shading Devices	\$ -	\$ -	\$ -	\$ -	\$ -

Investments in Energy Management Strategies

Other (Describe)	\$ -	\$ -	\$ -	\$ -	\$ -
Total Investment in Design, Construction and Retrofit Strategies	\$ 2,045,000	\$ 2,160,000	\$ 645,000	\$ 2,142,704	\$ 510,000

**Investments in Energy Management Strategies**

Summary of Investment by Type						
	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2018/19-2022/2023
<b>Total Investments in Energy Management Strategies FY 2012-13 to FY 2017-18</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Investment in Energy Management Strategies</b>	<b>Total Investment in Energy Management Strategies</b>
Design, Construction and Retrofit Investments Total	\$ 2,045,000	\$ 2,160,000	\$ 645,000	\$ 2,142,704	\$ 510,000	7,502,704
Operations and Maintenance Investments Total	\$ 40,000	\$ -	\$ -	\$ -	\$ -	40,000
Occupant Behaviour Investments Total	\$ -	\$ -	\$ -	\$ -	\$ -	0
Renewable Energy Investments Total	\$ -	\$ -	\$ -	\$ -	\$ -	0
<b>Total Investment Per Fiscal Year</b>	<b>\$ 2,085,000</b>	<b>\$ 2,160,000</b>	<b>\$ 645,000</b>	<b>\$ 2,142,704</b>	<b>\$ 510,000</b>	<b>7,542,704</b>