

# Cenergistic®

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**CLEARWATER**  
BRIGHT AND BEAUTIFUL • BAY TO BEACH

## Energy Program Partnership Update (24-0029-EN)

City of Clearwater  
August 2024

PEOPLE - PROCESS - TECHNOLOGY

# The system that powers the savings.

Cenergistic®



Cenergistic Energy Specialists



Cenergistic Optimize™ Technology



Cenergistic Management Process



## THE CENERGISTIC SOLUTION

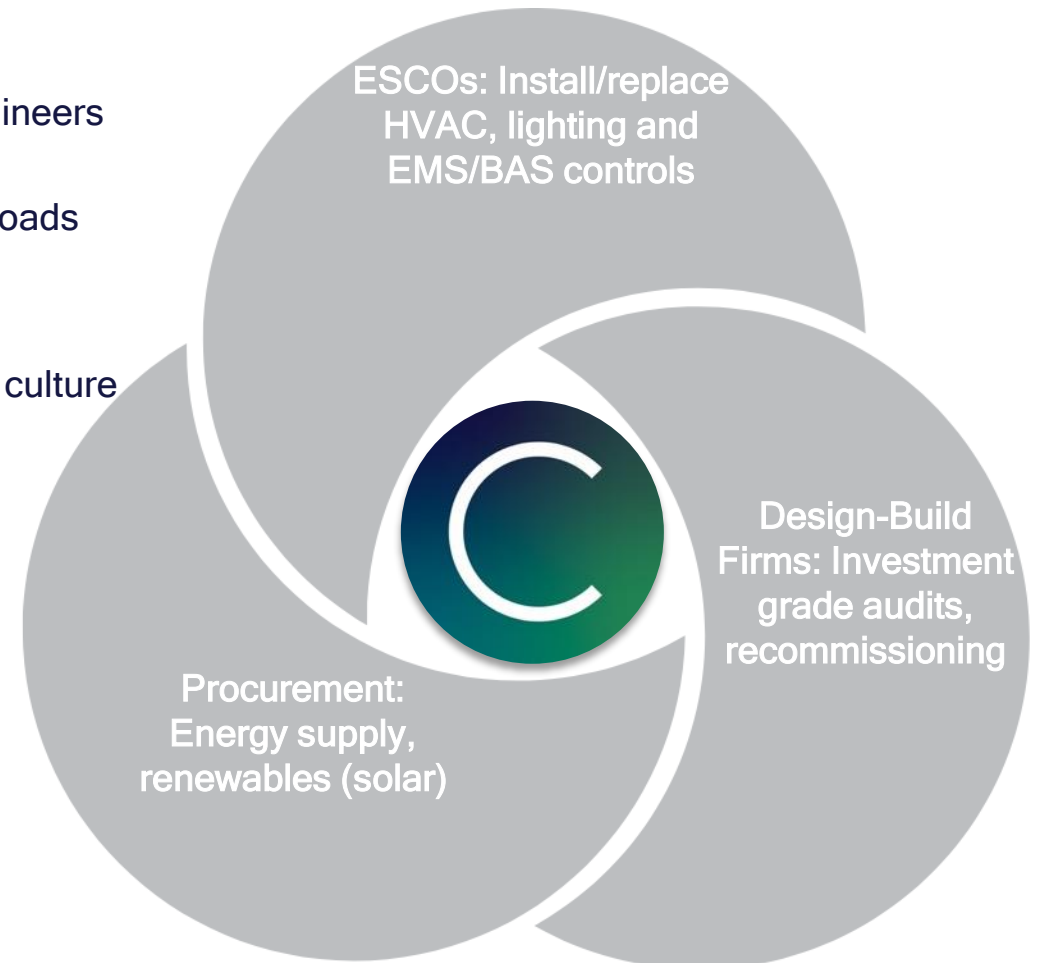
# Onsite Execution and Opti-Commissioning

## Cenergistic does...

- Continuously optimize and improve existing HVAC and controls systems
- Add capacity, reduce workload, EXECUTE with onsite energy specialists, engineers and technicians
- Hyper-focus on energy conservation: setpoints, schedules and building base loads aided by real-time data analytics and physical audits
- Master transition and unoccupied periods while protecting buildings
- Reduce and troubleshoot comfort complaints, influence organization's energy culture

## Cenergistic does not...

- Require new funding or long-term debt
- Upgrade or install HVAC equipment, lighting or controls
- Help you invest in renewables or procure energy supply
- Conduct investment grade audits of infrastructure
- Sell software-only (data analytics) solutions
- Offer one-time commissioning services





# Your Energy Specialist: A Typical Day

**4:00 a.m.** Conduct night audit at Gas Complex.

**6:00 a.m.** Found pumps running in manual mode at Main Library thanks to Cenergistic GreenX® alerts.

**7:00 a.m.** Monitored controls system at MSB to ensure recovery times are adequate for comfort and conservation.

**8:00 a.m.** Reviewed Cenergistic GreenX® alerts from previous day, addressed comfort issues, planned audits.

**12:00 p.m.** Energy conservation presentation to Parks and Recreation Department.

**2:00 p.m.** Met with Cenergistic engineer and facilities team at MSB Chiller Plant– identified numerous operational adjustments to improve optimization.

**4:00 p.m.** Verified scheduled evening activities at the Long Center have proper air conditioning, deployed loggers in places with high humidity.

**6:00 p.m.** Verified HVAC setback at conclusion of scheduled evening activities, conducted transition and unoccupied audits based on Cenergistic GreenX® alerts.

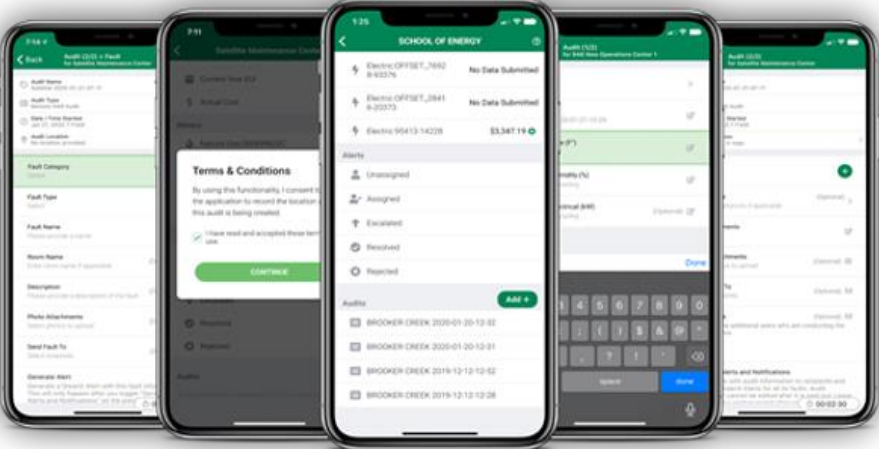
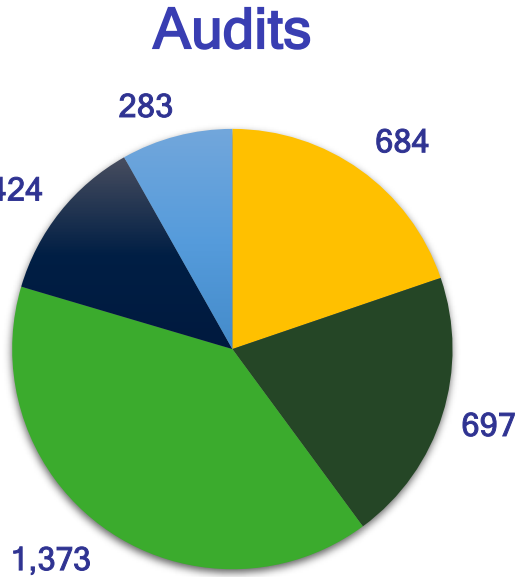
# Key terms

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- Base Year: March 2019 - Feb 2020. This timeframe was agreed upon at the start of the program. The base year is identified through historic utility trend analysis and is selected to be a representation of a standard year of consumption.
- Fast track: March 2022 - this was a fee free program month at the start of the contract.
- Performance Year 1: April 2022 - March 2023.
- Performance Year 2: April 2023 - March 2024.
- EUI: Energy Use Index or energy use (KBTU) per square foot. The lower the number, the better.
- Average unit cost: The total bill cost (base rate, taxes/fees and demand charges) divided by consumption.
- KBTU: a standard unit of measure that converts electricity and natural gas into a common unit of measure.

# GreenX Audits

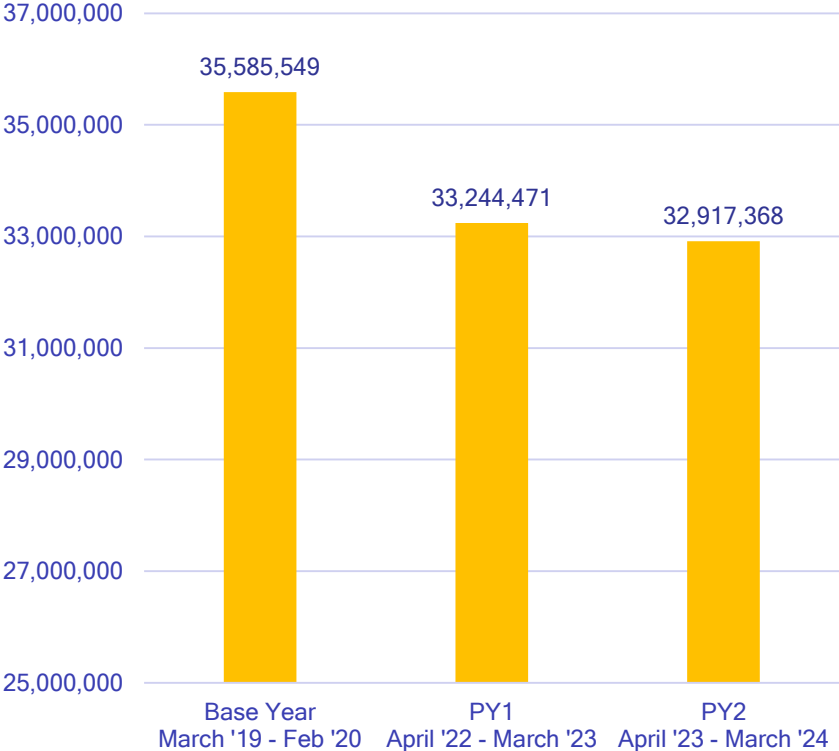
Your Cenergistic Energy Specialist has conducted a combined 3,178 audits since the start of the program. A key to energy program success is an energy specialist focusing most of their time auditing your facilities to ensure minimal energy waste. In addition, there have been 283 consultant support audits (onsite and remote).



- Occupied
- Remote, Data Management, Program Awareness
- Unoccupied
- Setback
- Consultant Support

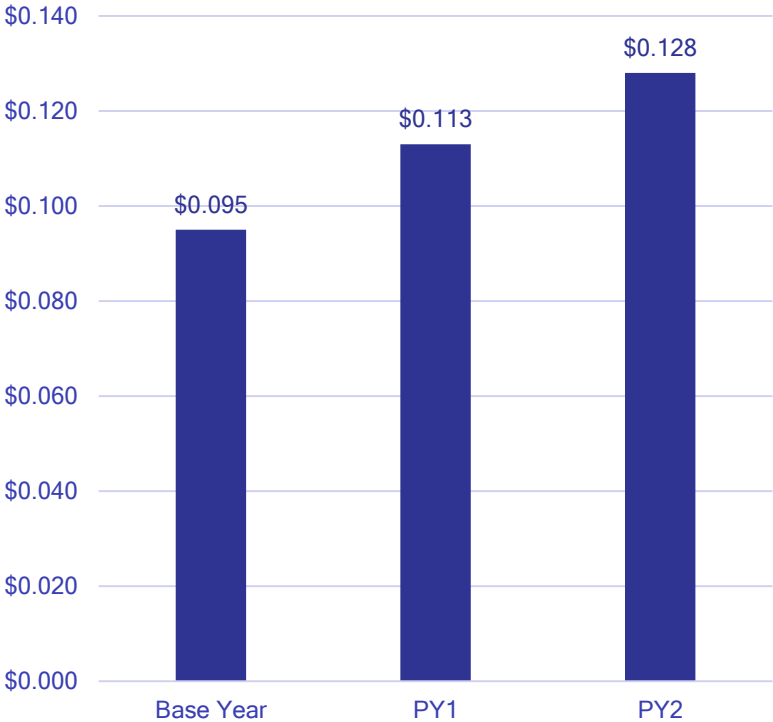
# Electric Profile

Consumption (kWh)



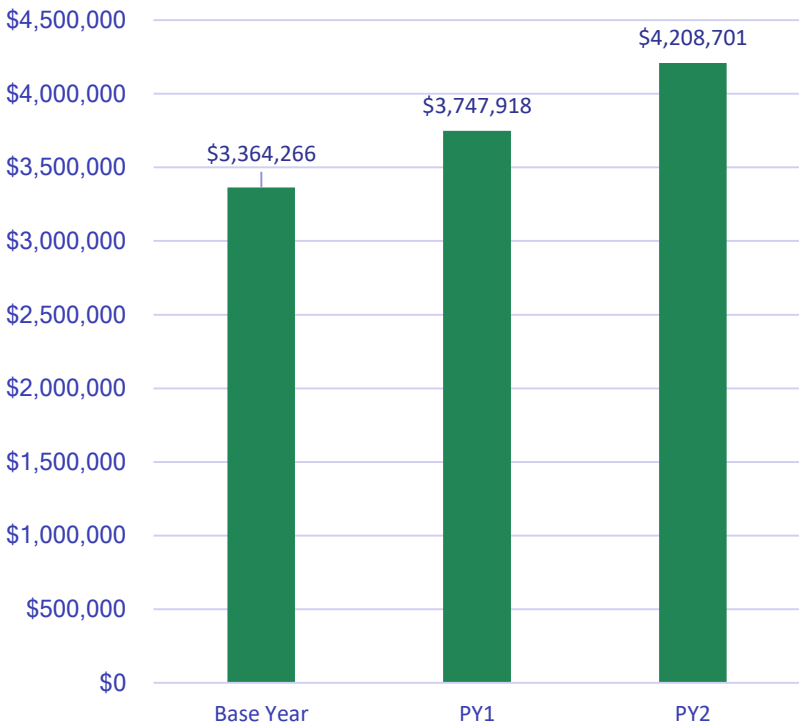
↓ -7.5%

Average Unit Cost (\$/kwh)



↑ 34.7%

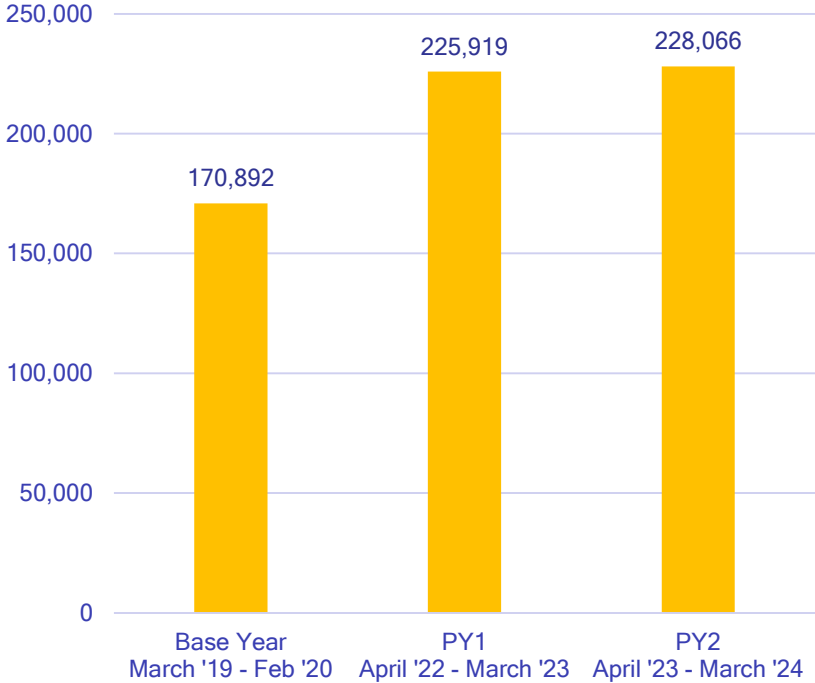
Electric Cost



↑ 25.1%

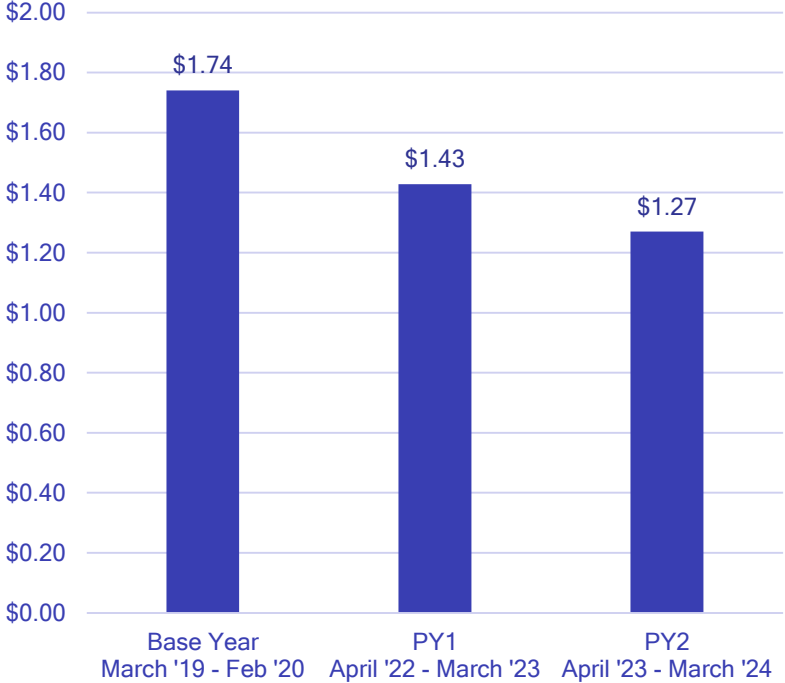
# Natural Gas Profile

Consumption (therm)



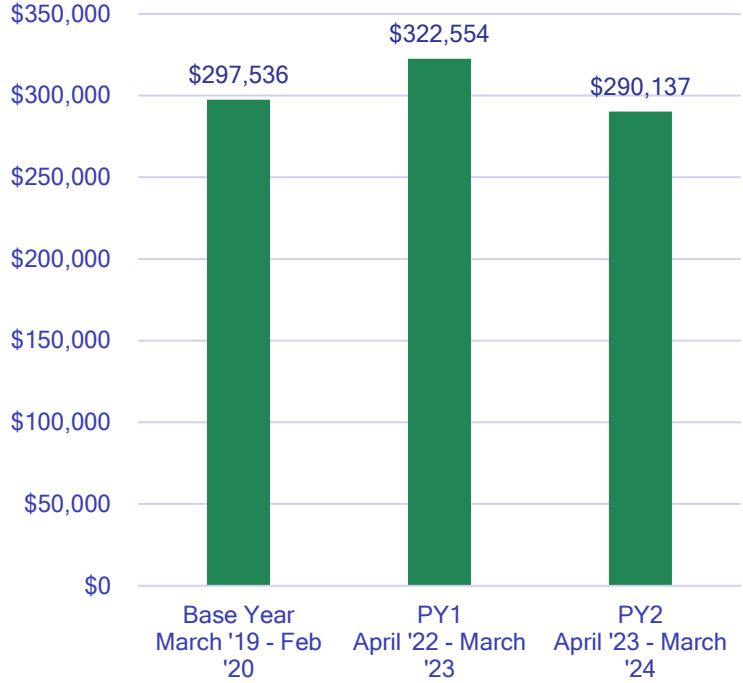
↑ 33.4%

Average Unit Cost (\$/therm)



↓ -26.9%

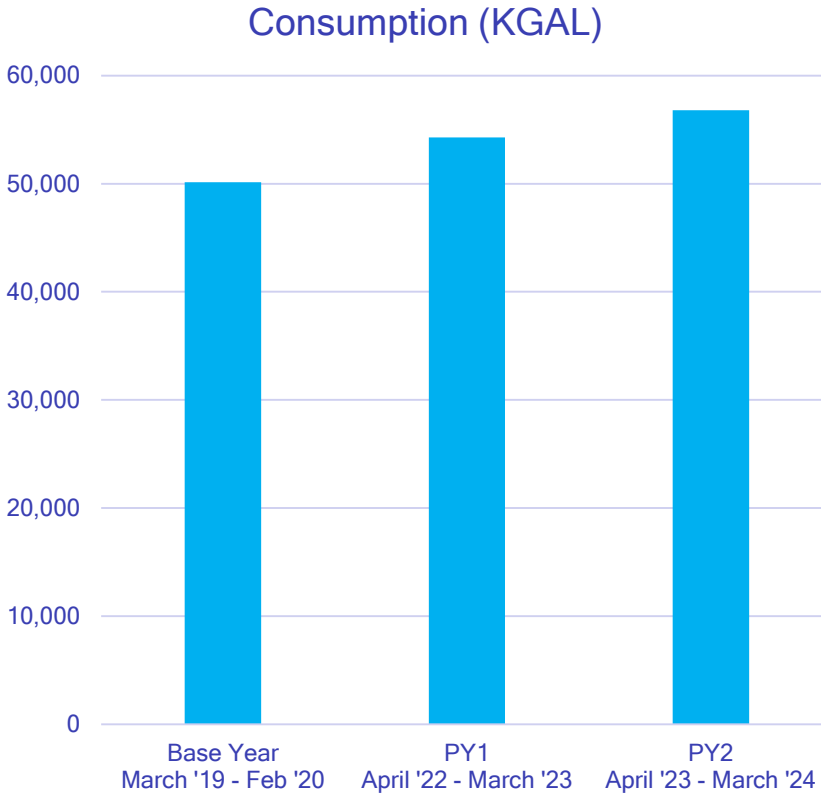
Natural Gas Cost



↓ -2.5%



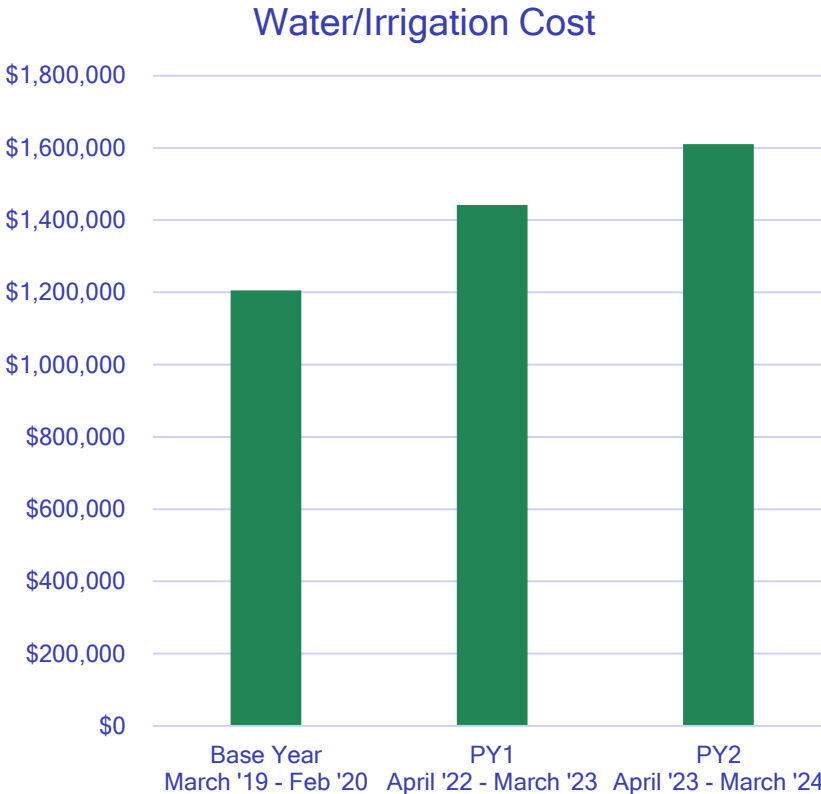
# Water/Irrigation Profile



↑ 13.2%

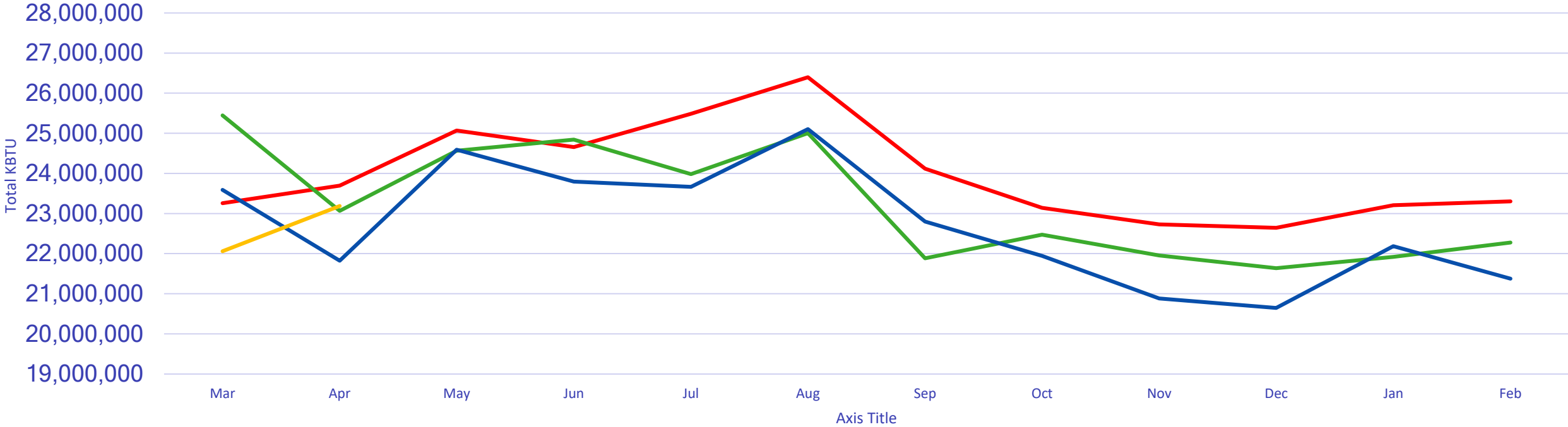


↑ 17.8%



↑ 33.5%

Energy Usage Trends



— Base Year(2019-2020) — Performance Year 1 (2022-2023) — Performance Year 2 (2023-2024) — Performance Year 3 (2024-2025)

Base Year (2019-2020)	23,258,058	23,693,449	25,071,505	24,658,693	25,488,668	26,395,842	24,118,795	23,144,067	22,727,471	22,641,433	23,209,248	23,305,029
Performance Year 1 (2022-2023)	25,446,546	23,067,972	24,566,737	24,844,519	23,980,694	25,001,858	21,884,999	22,472,508	21,955,288	21,637,319	21,919,642	22,276,585
Performance Year 2 (2023-2024)	23,591,658	21,824,650	24,592,477	23,793,619	23,664,090	25,105,514	22,801,393	21,944,549	20,880,590	20,646,104	22,185,848	21,377,033
Performance Year 3 (2024-2025)	22,059,144	23,186,418										

# Energy Program Success

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**26**

Months into  
Energy Program

**\$1,827,817**

Cumulative Cost  
Avoidance

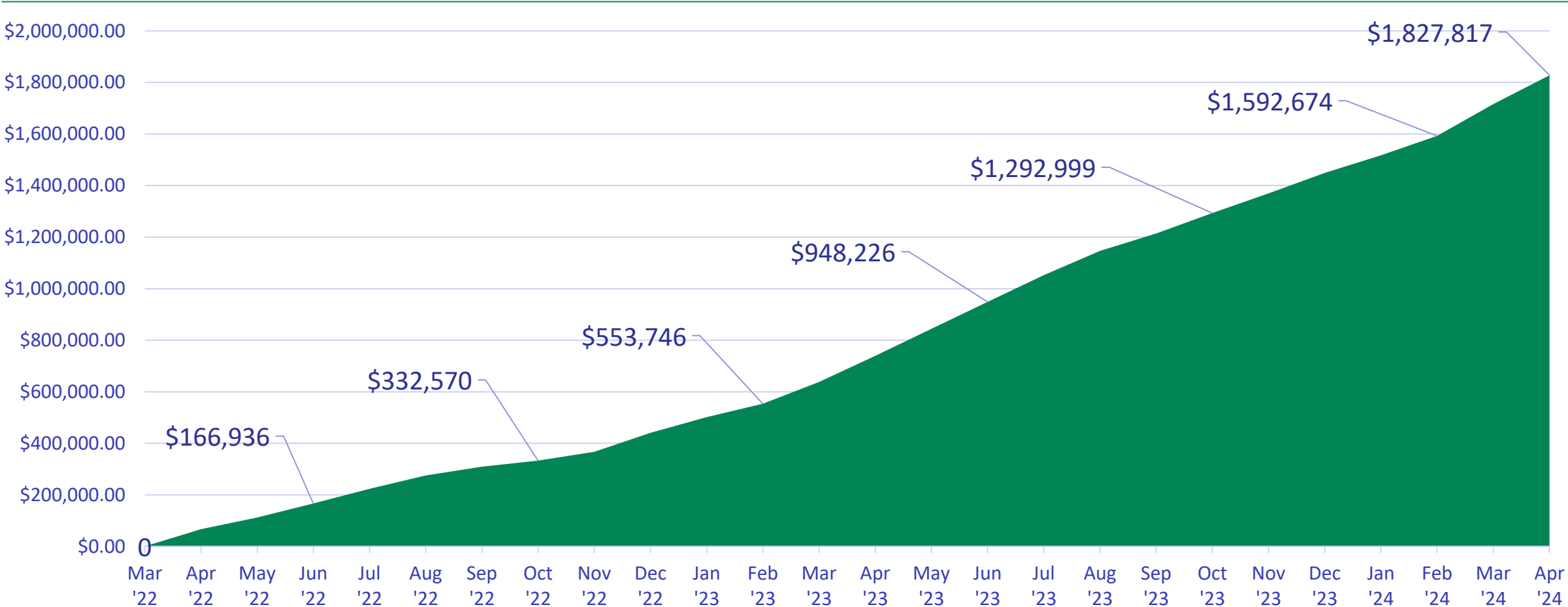
**10%**

Reduction in  
Energy Use (EUI)

**\$723,076**

Net Cost Avoidance After  
Program Cost

# Cost Avoidance Trend



# Notable Building Performance

	Base Year EUI	Current EUI	Reduction %	Total Cost Avoidance	Cost Avoidance %
Main Library	92.37	73.29	-20.65%	\$286,836	27.93%
Long Center	145.87	121.02	-17.04%	\$154,403	14.77%
Ross Norton Center	120.78	74.4	-38.40%	\$126,841	24.64%
MSB	86.26	67.98	-21.20%	\$106,008	15.64%
Countryside Library	145.98	81.29	-44.31%	\$93,882	32.21%



EXPERIENCE YOU CAN TRUST

# Cenergistic is the National Leader in Energy Conservation and Optimization.

TRACK RECORD

**\$6.8 Billion**

**In delivered savings to our client partners**

By applying sustainability principles and using our easy-to-manage software.

PROVEN PERFORMANCE

**38**

**Years of optimizing our client's buildings**

Through our people, process and technology.

CLIENT PARTNERSHIPS

**25,500+**

**Buildings optimized**

K12, Higher Education, Local Government, Healthcare and Faith-based Organizations.

INDUSTRY EXCELLENCE

**15,000+**

**ENERGY STAR® Recognitions**

Including 15 consecutive Partner of the Year - Sustained Excellence Awards and Client Building Certifications.

**We Monetize Sustainability.**