# Sustainable Facility & Energy Solutions

Aging Equipment & Infrastructure Improvements for The City of Cleveland Heights

# Energy Conservation Project Review

# Cleveland Heights Project Objectives

- Reduce Energy and Maintenance Costs
- Apply Green Solutions
- Replace, Upgrade Aging Equipment
- Reduce Capital Improvements Cost
- Be Good Stewarts of City Resources

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# City Wide Lighting Upgrades to LED

- 3,495 Interior Lamps to Energy Efficient LED


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# City Wide Lighting Upgrades to LED

- 1,661 Traffic Signals to Energy Efficient LED

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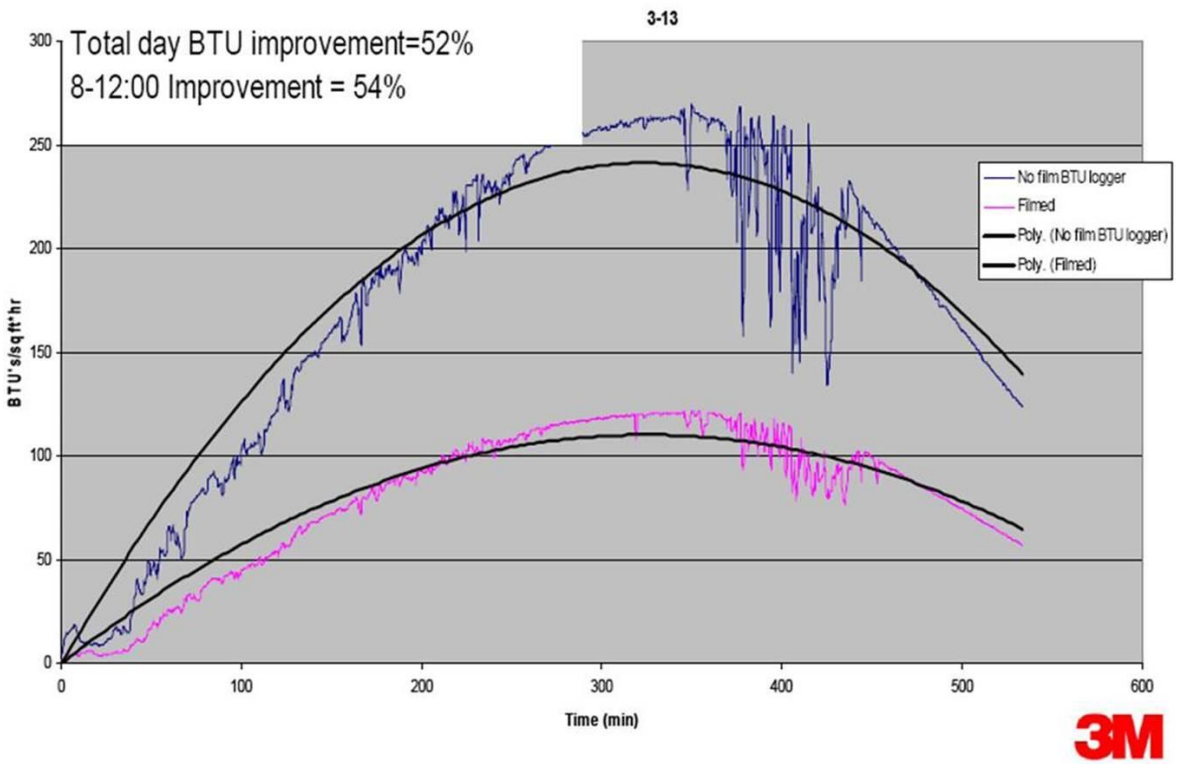
# Solar Window Film at City Hall




# Temperature Control Replacements

Thermostats dating back to the1950's were replaced.

Thermostats and controls were replaced in 14 buildings.


# Vintage  Boilers Updated


# North Rink Roof Replaced

# South Rink Facade Repaired

# 1968 Ice Machine Replaced

# 800 Tons of Air Conditioning Upgraded

800 tons is equivalent to 320 homes

# Weather Sealed Doors & Leaks

The blue material is a shower curtain to divert water leaking into the building.

Water damage to light fixtures & ceilings.

# New Water Heaters Relocated

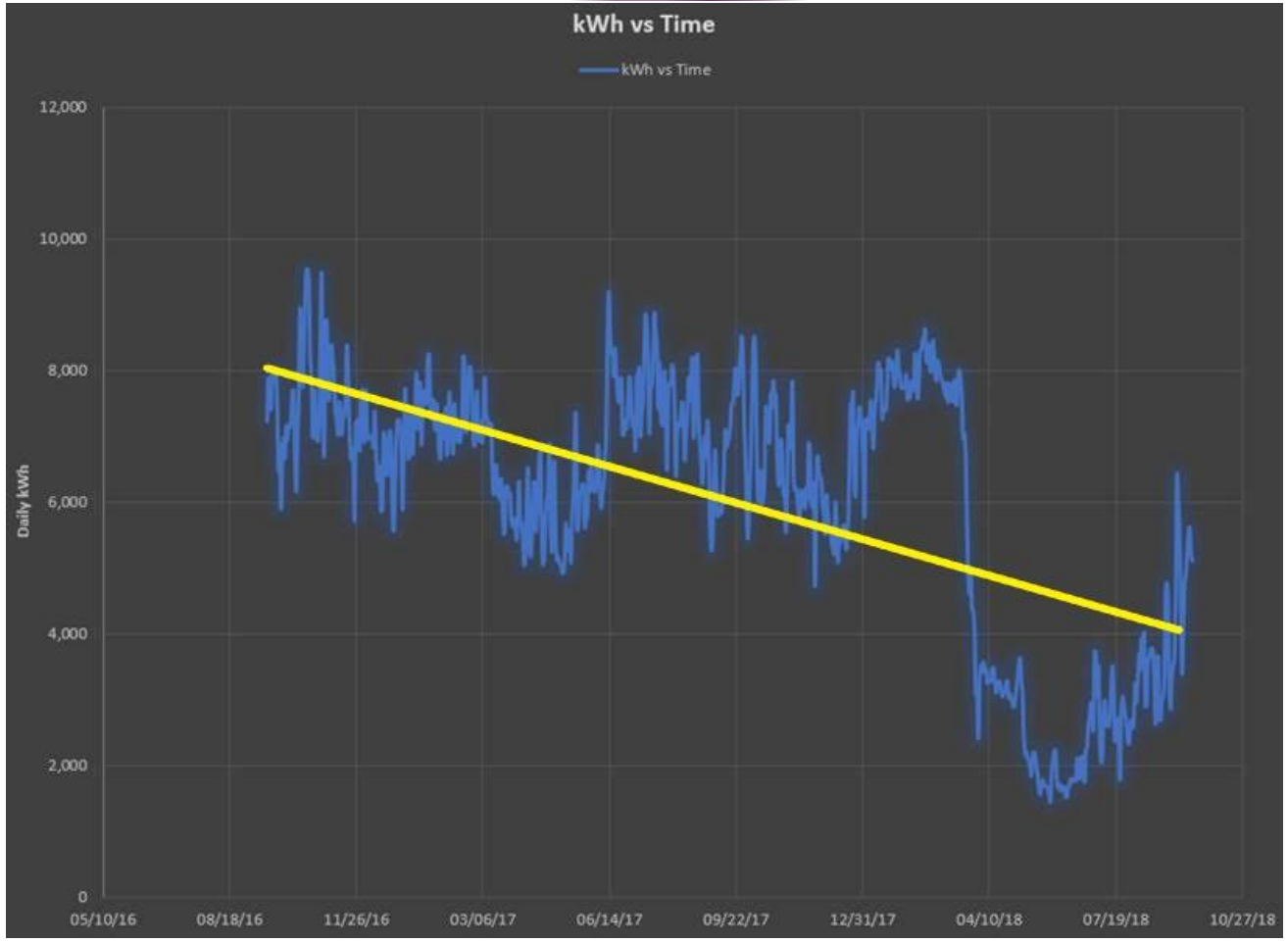
The original water heater was located above the gym floors. A past leak caused water damage to the area.

# High Maintenance Ice Maker Replaced

The repair cost on this machine was increasing every year.


# North Rink Dehumidifier Failed

# Electrical Usage Trending Downward

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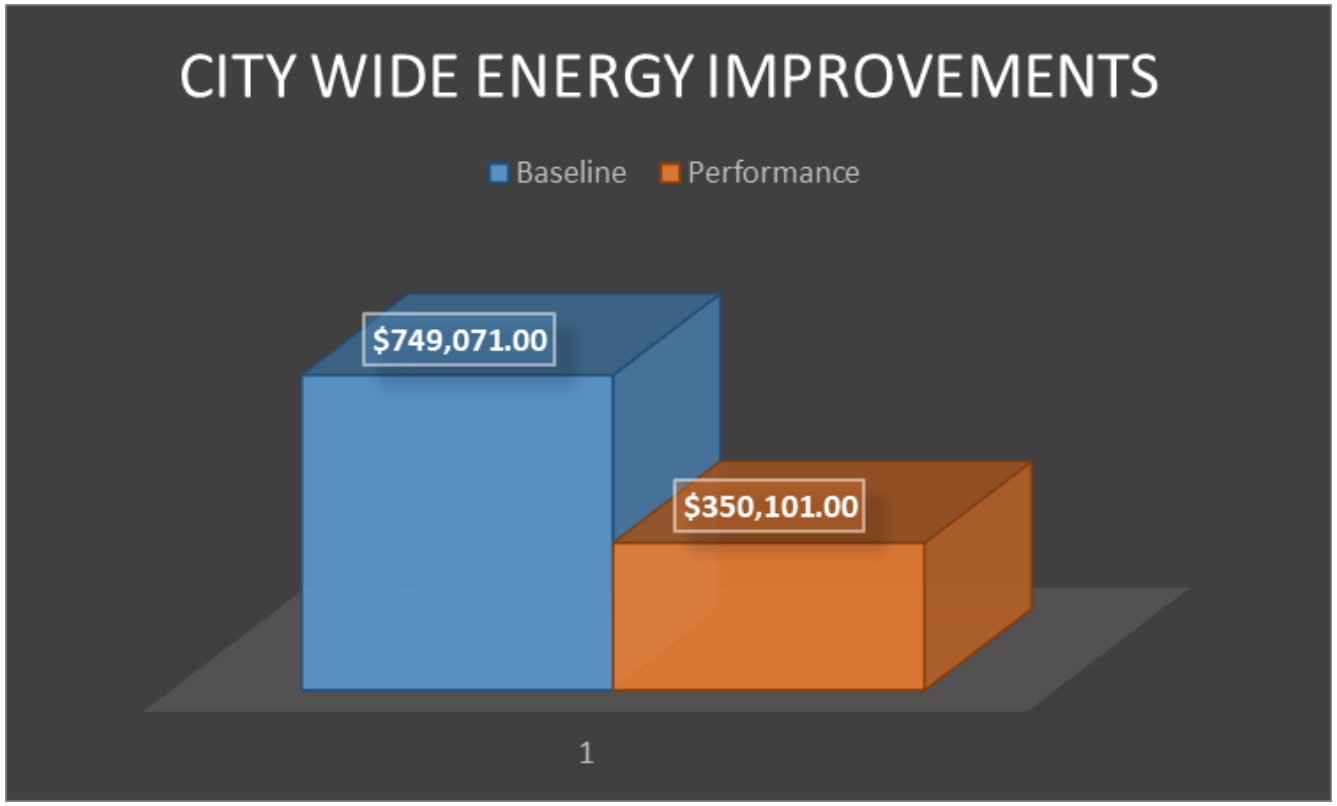
# For Reference

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# ENVIRONMENTAL IMPACT OF ENERGY CONSERVATION MEASURES

2,822 Metric Tons of Carbon Emissions

Greenhouse Gas Emissions from 599 Passenger Vehicles Driven for One Year

Carbon Sequestered by 3,321 Acres of U.S. Forest in One Year

# Cleveland Heights “A Smart City”