



Covington Independent Public Schools Year 5 Energy Savings Report

February 8, 2024







Year 5 Energy Savings Report

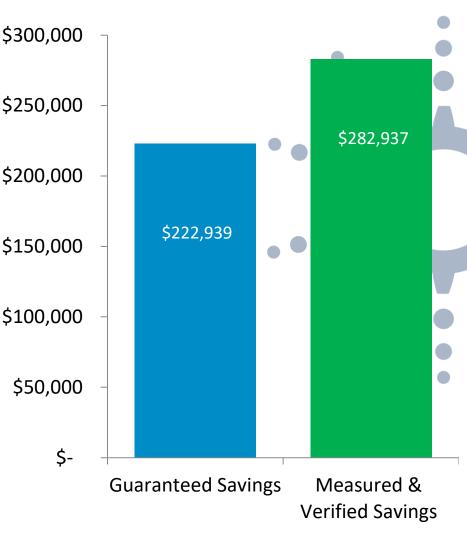
- Phase 1 Scope of Work 2017 Project
 - Lighting conversion to LED
 - Solar system installations at Carlisle ES and
 Chapman Ed Center at the Holmes Campus
 - Complete HVAC (heating, ventilation, and air-conditioning) retrofit of Ninth District ES
 - Targeted upgrades of select HVAC Systems
 - Digital Control of HVAC Systems





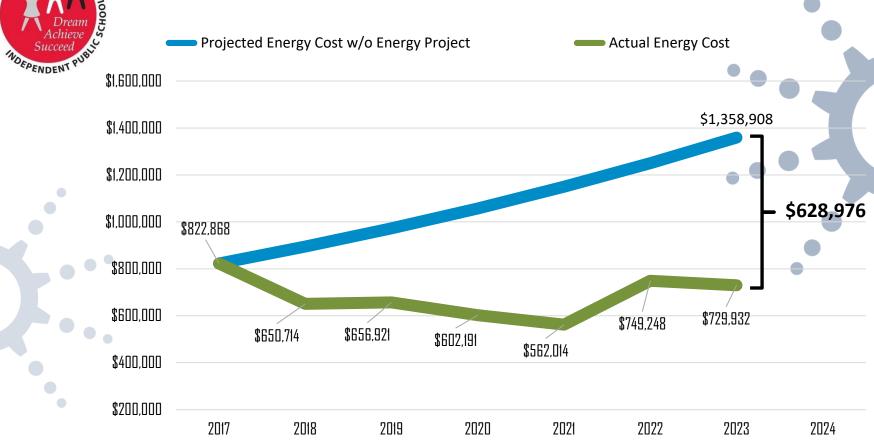
Year 5 Savings: \$282,937

Exceeds the Guarantee by \$59,997 (27%)



Dream Achieve Succeed

Total Energy Cost Avoidance



5 Years of Solar Production _{3,020,000}

Cumulative production within 4% of projected production



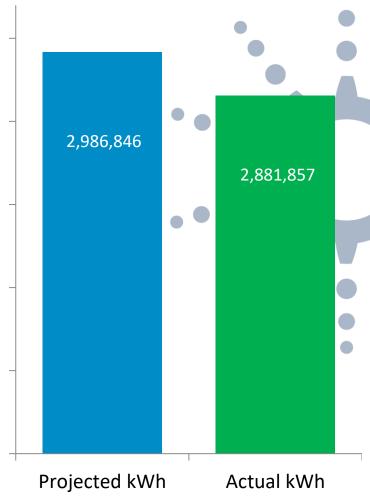
2,820,000

2,620,000

2,420,000

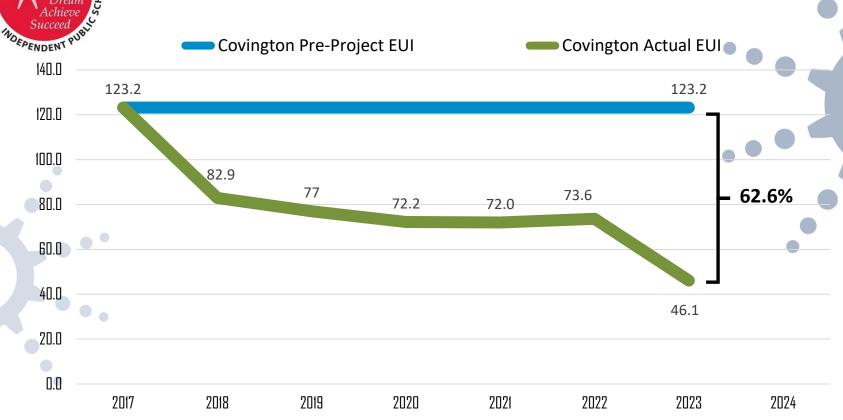
2,220,000

2,020,000



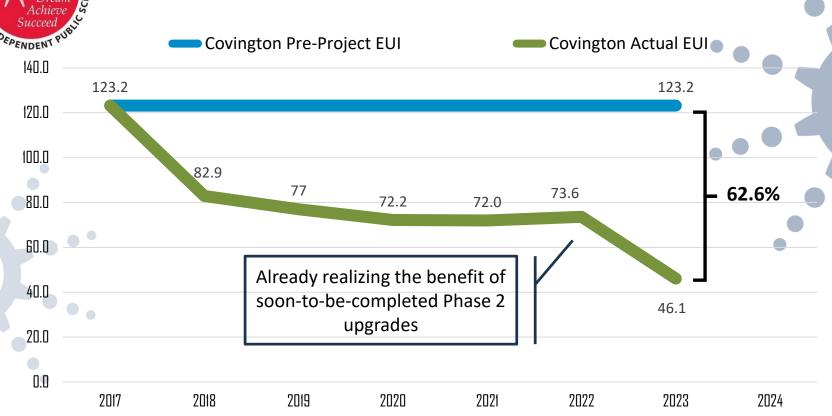


Energy Use Intensity Reduction





Energy Use Intensity Reduction





Energy Star Qualifiers

- Chapman Fieldhouse
- Latonia Elementary
- Ninth District Elementary
- Sixth District Elementary



Phase 2 Update

Phase 2 Scope of Work, 2022 Project

- Interior LED lighting improvements
- Telecommunications upgrade
- Building envelope weatherization improvements
- New energy-efficient transformers
- Replaced boilers and pumps
- Replaced rooftop units
- New windows
- New exterior doors
- Complete HVAC Retrofit of James E. Biggs Early Childhood Education Center
- Solar PV Systems at Sixth District, Latonia, and Glenn O. Swing





Phase 2 Update

Dream Achieve Succeed

Current Status

- On Budget
- All base work complete except interconnection to Customer's switchgear at the (3) locations that had roof solar systems. Estimated completion end of February.
- Solar SRECs & ITC Rebates in progress
- Utility rebates processed
- Expected Owner Turnover meeting and as-builts end of February.





Phase 2 Projected Energy Impact

- Phase 2 Guaranteed Energy Savings \$125,102
- Projected ~20% reduction in energy intensity
- Savings during construction
 - \$134,782 in additional utility savings compared to previous year
 - 37% decrease in energy intensity





Other Improvement Potentials

- Carlisle ES HVAC New HVAC to provide outside air and resolve humidity/comfort issues - GESC
- Homes Campus Ventilation Upgrades (Next Phase) AC
 for the HS & MS Design Build potential
- Energy Management/ Leadership Services
- Other Update:
 - District Controls All buildings centralized on a single Tridium system – (already completed)