

Retro-Commissioning Project Summary

THE PROJECT

Retro-Commissioning (RCx) Study and Implementation at a Middle School in St. Louis County.
Completed: March 2019



INITIAL ENERGY USAGE

Electricity: **\$271,418** (3,071,487 kWh)
Natural Gas: **\$45,628** (89,467 Therms)
Total: **\$317,046**



COST TO DISTRICT
\$14,560

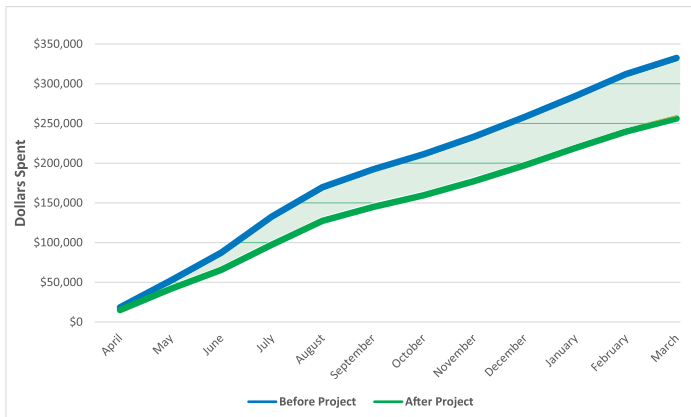


MEASURES

1. Updated Scheduling
2. Improved SF Modulation
3. Standby Mode
4. Demand Control Ventilation
5. Static Pressure Reset
6. SAT Reset
7. Improved Economizer Operation



ACCUMULATED SAVINGS OVER ONE YEAR



WHAT MADE THIS PROJECT UNIQUE?

The building's parameters had become skewed over years of adjustments. Automatic Controls identified the supply fan on the rooftop units were being overworked and rebalanced the school's 91 VAV boxes- allowing the supply fan on the rooftop units to slow down, saving energy.

WHAT DOES THE DISTRICT SAY

"This is the third retro-commissioning project that Automatic Controls has performed for us. The program has produced great results and the plan is to continue RCx at other schools. Energy savings are achieved while still maintaining a comfortable environment for staff and students."

THE RESULTS

\$76,258

ANNUAL SAVINGS

22.9%

ANNUAL SAVINGS

2.3 MONTHS

PAYBACK