



Christian County Schools

Guaranteed Energy Savings Contract
Project Review and Savings Update

March 3, 2022

Background Prior to Project

- Aged HVAC systems negatively affecting learning environments
- Excessive maintenance cost
- Poor lighting conditions throughout the district
- Decades old building control technology

Project Summary

- Christian County School Board approved and started a guaranteed energy savings contract in June 2014
- Project Cost - \$14,910,384
- 20 Years of Guaranteed Energy Savings
 - ✓ Energy/Gas/Water savings – \$282,197 annually (1st year)
 - ✓ Operational/Maintenance savings – \$92,459
- Sustainability program and guarantee start date
 - ✓ February 2016

- Brand New HVAC systems and controls
 - ✓ Hopkinsville Middle School
 - ✓ Freedom Elementary School
 - ✓ Indian Hills Elementary School
 - ✓ Pembroke Elementary School
 - ✓ Christian County Alternative School
- Lighting upgrades including LED in 10 Schools, Bus Garage, Board Office & Stadium
- District-wide water conservation

- ✓ Energy Performance monitoring – 8 schools
- ✓ Live Energy monitoring – 5 Schools
- ✓ Data Driven Performance Analytics – 5 Schools
- ✓ Technical support help desk for district staff
- ✓ Quarterly energy and performance consultations
- ✓ Measurement and verification (savings guarantee)

Enables Real-Time Interventions

Guaranteed Results

- Projected cumulative 5-year savings = \$2,044,609
- Verified cumulative 5-year savings = \$2,211,258
- ***An additional \$166,649 in savings!***
 - *Exceeded guarantee by 8%*

ENERGY STAR Certified Schools

- ✓ Freedom Elementary School
- ✓ Indian Hills Elementary School



= Good Financial Stewardship!

5-Year Environmental Impact



3,396

Passenger cars
not driven for
one year



36,491

Barrels of oil
not burned



2,014

Households' worth
of electricity use
for one year



129

Acres of trees
preserved from
deforestation

= Good Environmental Stewardship!