

PUBLIC SCHOOL CASE STUDY:

AT A GLANCE

Building Type: High School
Location: Millersville, PA
Sector: Public
Service: Education
Tax Incentive: §179D
Total SF: 415,382



PROJECT OVERVIEW

This High School used a variety of Energy Conservation measures (ECMs), including overhauling the lighting system with LEDs and upgrading the HVAC system. Some of the HVAC upgrades included new condensing boilers and DX Roof Top Units (RTUs).

Making the correct capital improvements on your building can be essential to the amount of energy cost savings you will achieve. Improved indoor air quality (IAQ), occupant wellness and lower maintenance costs are just a few other benefits associated with the correct system upgrades. The improvements made by this school allowed them to achieve a significant **68.13% in energy cost savings**.

The successful implementation and upgrade to various systems have made the designer of the EECBP eligible for a §179D Tax Deduction of \$780,918.16.

ENERGY MODELING PARAMETERS

PARAMETER	REFERENCE BUILDING MODEL	PROPOSED BUILDING MODEL
Interior Envelope	90.1-2007 minimum requirements	0.26 W/SF
Envelope	90.1-2007 minimum requirements	Wall R-26 / Roof R-29
HVAC	90.1-2007 minimum requirements	Daikin RTU's 18.2 EER Boiler Fulton 97% AFUE

SYSTEMS OVERVIEW

LIGHTING

Upgraded: YES
Previous Tech: Fluorescent
New Tech: LED's
New Brand: Luthion



HVAC-HEATING

Upgraded: YES
Previous Tech: Fire-Tube
New System: Condensing
Brand: Fulton Vantage



HVAC-COOLING

Upgraded: YES
Previous Tech: RTU CAV
New Tech: RTU VAV
Brand: Daikin



EPACT2005 AND §179D COST BENEFIT ANALYSIS

TOTAL BLDG SQ. FOOTAGE	415,382
TAX BRACKET	30%
TOTAL ASSUMED SQ FOOT DEDUCTION	\$1.88
TOTAL DEDUCTION:	\$780,918.16
§179D TAX DEDUCTION CASH VALUE	\$234,275.45

Walker Reid is a licensed professional engineering firm who specializes in performing §179D studies. Through our extensive experience we have been able to refine our processes to maximize financial benefits while reducing our clients internal costs and efforts.


As industry leaders, Walker Reid, actively participates in numerous national organizations related to both energy efficiency and specialty tax services. Our staff of experienced engineers and advisers are well versed in a variety of energy and tax related policies. Additionally, our engineers are trained and certified energy raters who come prepared to perform accurate site audits and energy analysis.



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