

MSD WARREN COUNTY SCHOOLS

\$1,061,079 Energy Savings to Date

When the Warren County school board considered renovating the HVAC system in their district schools, the main priority was to provide every classroom with an environment conducive to learning and to positively impact every student, teacher and staff member in the district. As of December 2010, the sixth guarantee year, the cumulative guaranteed energy savings was exceeded by 123 percent.

“As an educator, we are often working in areas that have a daily impact on our students without proper training. Heating and air would be one of those areas. Finding someone with integrity, a passion for their job, and outstanding customer service is a must. Performance Services exceeded all expectations during our project and continue to do so more than 5 years after completion of the project. Performance Services is a company that schools can trust in this volatile environment. When given an opportunity in the future, we will choose Performance Services again!” -- Ralph Shrader, Superintendent

ENERGY AND LEARNING ENVIRONMENT NEEDS

INTEGRATED SOLUTIONS

TEMPERATURE

Comfort: every room is within 1 degree F of set point during the day throughout the year

Heating: a high efficiency gas fired boiler was added as a summer boiler to the heating system

Classrooms: air handlers and classroom vents were replaced in order to improve the air flow in the class and reduce the sound level to ensure a quality learning environment

HUMIDITY

Humidity sensors and proper programming in place to keep humidity levels down, especially in the critical summer months

FRESH AIR VENTILATION

CO2 levels are measured with sensors to maintain levels below 1000 PPM with outside air dampers at minimum position

AIR DISTRIBUTION

New air handling units provide a path for air return in order to improve control and comfort

Fans: Drives adjusted to variable speeds to distribute proper amounts of air and save energy

NOISE

Reduced classroom noise levels in areas below 50 dB

OPERATIONAL SAVINGS PROJECTED \$507,584

	PROJECTED	GUARANTEED	ACHIEVED				
			YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
kWh	577,745	421,725	577,974	587,093	597,902	566,106	610,693
Therms	52,883	35,563	50,072	49,559	54,440	50,449	46,216
KW							



MSD OF WARREN COUNTY

SQUARE FT: 278,438

GESC CONTRACT - MEASURED & VERIFIED: \$4,590,670 (10 YR CPF)

COMPLETION YEAR: 2004

SAVINGS TO DATE: THRU DEC 2010

GUARANTEED ANNUAL ENERGY SAVINGS: \$ 79,257

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ABOUT PERFORMANCE SERVICES

We are a Design Build engineering and construction company specializing in creating optimal learning and working environments. By valuing relationships and workmanship over change orders and shortcuts, Performance Services strives to earn a 100% Customer Satisfaction rating.

