

NOBLESVILLE MIDDLE SCHOOL

\$675,226 Utility Bill Savings to Date

After successful renovation of the high school and freshman center, Noblesville Schools decided to address building performance issues at the middle school. High energy bills, temperature control and humidity problems, air ventilation and noisy air vents were compounded by equipment that was difficult to access and maintain.

Performance Services performed classroom renovations during the school year resulting in dramatic improvement to the learning environment as well as a 57 percent reduction in utility bills for the first twelve months under the guaranteed savings contract.

"We are very excited about earning the ENERGY STAR. It's rewarding for our Noblesville facilities team, working collaboratively with Performance Services, to transform the least energy efficient building in the corporation into an ENERGY STAR. In these days of shrinking budgets, saving energy wherever possible makes great economic sense."

-- Dr. Libbie Conner, Superintendent

ENERGY AND LEARNING ENVIRONMENT NEEDS

INTEGRATED SOLUTIONS IMPLEMENTED DURING THE SCHOOL YEAR

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

\$614,407 per year

	PROJECTED	GUARANTEED	ACHIEVED				
			YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
KWh	834,903	709,668	848,045	834,487			
Therms	59,998	44,999	112,048	113,084			
KW	1,757	1,493	1,770	1,757			



NOBLESVILLE MIDDLE SCHOOL

SQUARE FT: 286,350

GESC CONTRACT - MEASURED & VERIFIED:
\$5,098,517 (10 YR CPF)

MECHANICAL CONTRACTOR:
REAL Mechanical

COMPLETION YEAR:
1/2008 TO 1/2009

SAVINGS TO DATE:
THRU DEC 2010

GUARANTEED ANNUAL ENERGY SAVINGS:
\$82,302

AWARDED IN 2009:
ENERGY STAR

CONTACT:
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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.

