



Oxford Area Community Schools

Oxford, Michigan
Energy Performance Contract



Project Size: 7 buildings, 854,330 sq ft

Project Dollar Amount: \$2,926,477

Source of Funds: Bond

Contract Terms: 15 years

Project Schedule: Completed on schedule

Project Phase	Project Dates	
	Started	Completed
Comprehensive Energy Analysis	December 2006	December 2006
Design/Implementation	July 2007	April 2008
Monitoring	April 2008	N/A

Guaranteed Annual Energy Savings: \$261,670

Annual Non-Energy Savings: \$15,000

Achieved Summarized Savings:

Baselines	kWh	kW	CCF	Water (gal)	Energy \$	Non-Energy \$	Procurement & Energy Awareness \$	Total Dollars
		1,368,356		186,366	2,195	\$261,670	\$15,000	\$57,144
ANNUAL SAVINGS								
Year	kWh	kW	CCF	Water (gal)	Energy \$	Non-Energy \$	Procurement & Energy Awareness \$	Total Dollars*
Construction								
1								

* Energy Savings + Non-Energy Savings = Total Annual Dollars Saved

Measurement and Verification: IPMVP, 1997, Option A (short-term/periodic measurements after retrofit compared to base conditions); IPMVP, 1997, Option D (computer simulation of post-install consumption used to measure savings); Stipulated.

Comments: Project included complete re-commissioning of all district school buildings, including newly constructed high school facility.

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List of Improvements:

- Modified natatorium summer reheat source at high school
- Replaced existing absorption chiller at middle school
- Retrofit / repaired AHUs at high school
- Re-commissioned / rebalanced existing AHUs at high school
- Retrofit Server Room AHU
- Replaced existing boilers – Clear Lake, Lakeville Elementary Schools and the Middle School
- Boiler system modification – Oxford Elementary
- Boiler system improvements – Leonard Elementary
- Replaced existing supply fan / return fan Vortex Dampers with VFDs – Middle School

(see other side for more)

Reference:

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Oxford Area Community Schools, continued

List of Improvements, cont'd:

- Lighting upgrades in all buildings
- Expanded / upgraded existing DDC system in all buildings
- Re-commissioned existing DDC system in all buildings
- Building envelope improvements – Oxford, Clear Lake and Leonard Elementary Schools
- Added air conditioning to classrooms – Leonard Elementary
- Water conservation
- Repaired / replaced existing classroom unit vents
- Installed instantaneous DWH – kitchen sink & concession sinks at Middle School
- Installed instantaneous DWH – kitchen sink & toilet sink at Oxford, Daniel Axford, Clear Lake, Leonard, and Lakeville Elementary Schools
- No cost / low cost PM measures
- Waste removal modifications
- Replaced DWH system – Daniel Axford Elementary
- Replaced domestic water piping – Oxford Elementary
- Installed natural gas and electric sub meters – Lakeville Elementary
- Eliminated two existing greenhouses – Oxford Elementary
- Power factor correction at the High School, Middle School, and Lakeville Elementary
- Energy star computer programming
- Vending machine energy controllers
- Utility procurement management / consulting
- Energy awareness training