
THE
NERGIZED
ELKS
ELKHORN | WISCONSIN

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Rural Community
3,281 K-12 Students
37.8% Free/Reduced
Title I School District

Multi-Use School Buildings
Regional Red Cross Shelters
Average Building Age: 75 yrs.
Oldest Building Built: 1887

Team Challenges:

- Lack of Regional Energy Resources
- Aging, Unhealthy Buildings
- Outdated, Unreliable Building Equipment
- Failed Operational Referendum
- Rising Inflation and Utility Costs
- Municipal Electrical Company

The Energy CLASS Impact

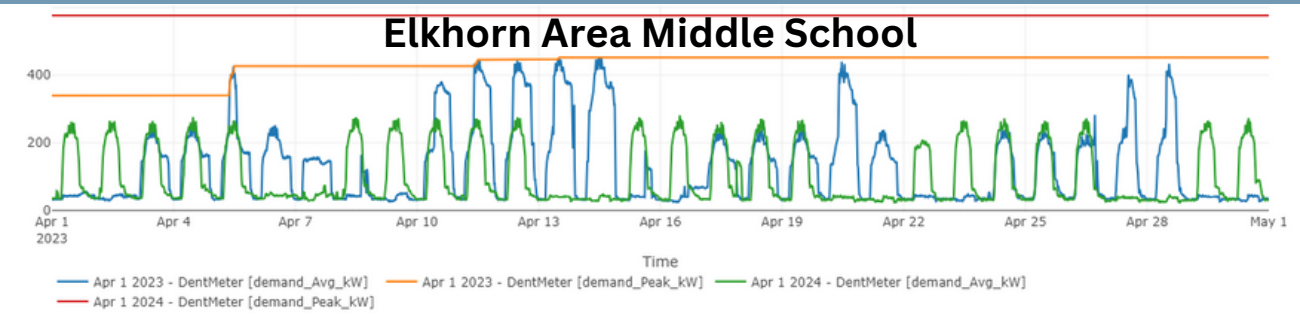
dataWrangler

Energy Data-as-a-Service from CLOCworks, Inc.

"Our Knowledge Will Save You Power!"

The Elks team and CLOCworks, Inc. partnered for EASD's first benchmarking and utility studies. Ongoing adjustments now produce $2,500 in savings each month!

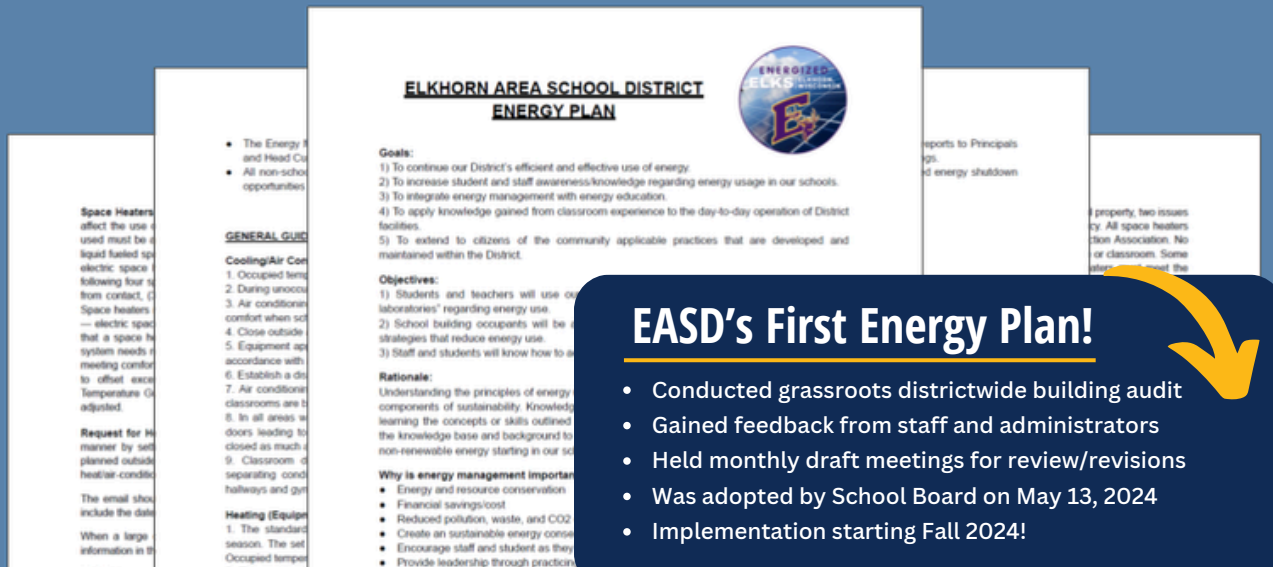
Elkhorn Area Middle School



The Energy CLASS Impact

An evaluation of the High School air handling system revealed 22 broken dampers stuck in either open or closed positions, creating a 7 to 10-degree temperature variance around the building during winter months. Repairs resulted in better environments for students and staff, as well as energy savings.

The Energy CLASS Impact



EASD's First Energy Plan!

- Conducted grassroots districtwide building audit
- Gained feedback from staff and administrators
- Held monthly draft meetings for review/revisions
- Was adopted by School Board on May 13, 2024
- Implementation starting Fall 2024!

Addressing the Sleeping Giants

The creation of 10-year Planned Maintenance and Capital Improvement Plans is needed next to address inefficiencies at EASD's largest buildings. This will impact the most students, provide the greatest savings, and allow these facilities to remain open for year-round community use.

Elkhorn Area High School

- Built in 1965; Additions in 1999 and 2016
- 1,100 students & faculty
- 351,000 total sq. ft.: Largest building in town!
- Utility Cost per Square Foot: $1.26
- Countywide Community Disaster Relief Site

1887 Bldg./Jackson Elementary

Attached buildings constructed in 1887 and 1939; Renovated 2003

580 staff & students

113,177 sq. ft.

Cost/SFt: $1.76

Elkhorn Area Middle School

Built in 2003; Lapsed Energy STAR rating; Only Air Conditioned School

800 staff & students

143,400 sq. ft.;

Cost/SFt: $1.74

Proposed Project Upgrades:

Goal	Metrics	Strategy	Action	Lead(s)	Timeline
Reduce energy usage in LEA buildings by 20% by 2035	Electricity use (KwH/year)	Upgrade two of the targeted buildings to Energy STAR levels	Benchmark buildings using DataWrangler program	Energy Manager	5/30/2025 Funded by EC Phase 2 Prize
			Contract full energy assessment of EAHS and EAMS		
			Create new annual equipment maintenance plan		
	Natural gas use (Therms/ year)		Implement new EASD Energy Plan districtwide. Revise as needed		

	Metrics	Strategy	Action	Lead(s)	Timeline
			Identify and implement upgrades in 10-year Capital Improvement Plan	Energy Manager & Business Manager	6/30/2030 Funded by existing Operations Budget
	Baseline = 2023 (KwH/year)	Restructure after-hour building usage districtwide	Benchmark occupancy usage using event calendars	Community Engagement Coordinator	12/31/2024
			Create new community facility use strategy		
			Modify EASD Cleaning Plan	Energy Manager	
		Install smart operational technology system at EAMS	Source system and vendor to work with existing equipment	Energy Manager	6/30/2025 Funded with remaining EC Phase 1 prize

The Bottom Line

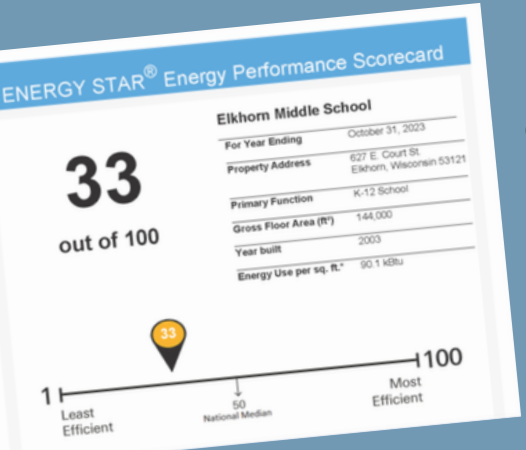
focus on energy®

Partnering with Wisconsin utilities

The EASD 2024-25 annual budget for utilities has already been reduced to reflect a minimum forecast of $46,900 in energy savings next school year! This is based on continued benchmarking efforts and Wisconsin non-profit partner Focus on Energy support to review equipment operation.

The Bottom Line

An extensive software system upgrade at Middle School will bring EASD into the next generation of efficiency operations.



Flexible monitoring and adjustment of temperature controls will boost community usage and allow for more consistent learning environment.

Priority to also upgrade equipment and return its Energy STAR certification within next five years.

Moving Forward On Our Own

- Frequent communication with EASD School Board & Administrators
- Community & Student stakeholder engagement
- Ongoing benchmarking
- Find data driven solutions
- Capitalize on non-profit support and grant funding