

Energy Efficiency: The Untapped Resource

All around us, embedded in every school building is a vast untapped energy resource: efficiency. We used this energy efficiency savings to help fund other needs in your District.

- Energy supply
- Human behaviors

Building use

- Building and system commissioning
- Equipment operation
- Operating plan
 Renewables





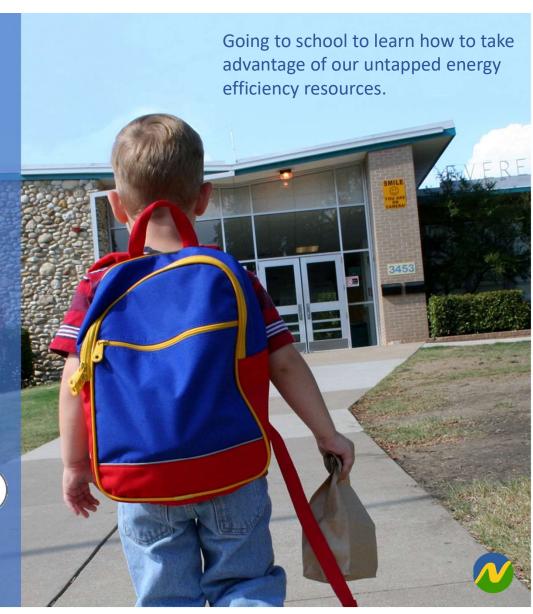








Bringing these together in a comprehensive manner is helping us achieve over 30% savings on utilities as well as additional operational and maintenance savings.





Financial Energy Savings Targets

	Program Year	Construction	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						1000		S20000000
2	Beginning Balance	\$5,148,451	\$5,148,451	\$4,881,632	\$4,605,475	\$4,319,652	\$4,023,825	\$3,717,644
/шег	Interest	\$0	\$180,196	\$170,857	\$161,192	\$151,188	\$140,834	\$130,118
e Pay	Principal	\$0	\$266,819	\$276,158	\$285,823	\$295,827	\$306,181	\$316,897
nanc	Total Finance Payment	\$0	\$447,015	\$447,015	\$447,015	\$447,015	\$447,015	\$447,015
E	Ending Balance	\$5,148,451	\$4,881,632	\$4,605,475	\$4,319,652	\$4,023,825	\$3,717,644	\$3,400,747
Tota	l Payments	\$0	\$447,015	\$447,015	\$447,015	\$447,015	\$447,015	\$447,015
Gran	nts and Rebates	\$380,000						
	Energy Savings	\$74,674	\$307,570	\$316,798	\$326,301	\$336,090	\$346,173	\$356,558
sgu	Operational Savings	\$13,883	\$55,530	\$57,196	\$58,912	\$60,679	\$62,500	\$64,375
Savi	Capital Cost Avoidance	\$1,960,951						
	Total Savings	\$2,049,508	\$363,101	\$373,994	\$385,213	\$396,770	\$408,673	\$420,933
Year	ly Cash Flow	\$2,429,508	(\$83,914)	(\$73,021)	(\$61,801)	(\$50,245)	(\$38,342)	(\$26,082)
Cumulative Cash Flow		\$2,429,508	\$2,345,593	\$2,272,572	\$2,210,771	\$2,160,526	\$2,122,185	\$2,096,103

Excludes Capital Cost Avoidance

Yearly Cash Flow	\$468,557	(\$83,914)	(\$73,021)	(\$61,801)	(\$50,245)	(\$38,342)	(\$26,082)
Cumulative Cash Flow	\$468,557	\$384,642	\$311,621	\$249,820	\$199,575	\$161,234	\$135,152



Projects Implemented

- Interior Lighting Upgrades
- Exterior Lighting Upgrades
- Replace HVAC Systems
- Implement DDC Temperature Controls
- Commissioning of Mechanical Systems
- Water Efficiency
- Weatherization
- Continued SystemsOptimization





Our Utility Savings Goal

Utility Type	Consumption Savings	% Saved
Electric Energy (kWh)	3,018,396	32%
Electric Demand (kW)	6,570	17%
Gas Energy (Therms)	12,507	10%
Water Consumption (kgal)	911	18%

Trying to Achieve \$356,558 in Year 6

Our Results

Utility Type	Consumption Savings	% Saved
Electric Energy (kWh)	3,425,404	37%
Electric Demand (kW)	10,391	27%
Gas Energy (Therms)	15,842	15%
Water Consumption (kgal)	1,257	23%

Achieved \$429,505





Program....Financial Review

Annual Utility Cost Savings	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Expected	\$307,571	\$316,798	\$326,301	\$336,090	\$346,172	\$356,558
Verified	\$383,244	\$415,637	\$415,250	\$557,125	\$505,772	\$429,505
Resulting Surplus	\$75,674	\$98,889	\$88,949	\$221,035	\$159,600	\$72,947

Total Project Utility Savings	\$1,989,490
Total Verified Savings	\$2,706,533
Total Surplus	\$717,043

**Construction operation not included



