



**Service & Product Provider Partner**

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**Customer**

***Crosby Independent School District***

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Business: School District  
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**Crosby Independent School (ISD) achieves a 19% energy reduction district-wide through low-cost and no-cost energy conservation strategies.**

**Project Scope**

By utilizing M-Power, an energy monitoring tool, and the analytical services of Automated Logic Corporation, Crosby ISD identified and successfully implemented measures to improve energy conservation while also increasing classroom comfort.

**Project Summary**

Using real time data provided by the M-Power energy and comfort monitoring system, Crosby ISD and the energy monitoring team from Automated Logic evaluated facility energy performance, and established goals to reduce energy consumption and increase classroom comfort. Together, ALC and Crosby ISD worked to implement low-cost and no-cost energy conservation measures such as control recommissioning, CO<sub>2</sub> air flow control, and reprogramming humidity control strategies. Successful implementation of these strategies has led to remarkable results in both targeted areas enabling Crosby ISD to achieve a 19% energy reduction district-wide.

- **Energy Savings**  
In fourteen months, Crosby ISD reduced its energy consumption by 3.7 million kWh, and saved over \$370,000. This is equivalent to a savings of 1.98 kBtu/ft<sup>2</sup>.
- **Investment**  
The initial investment totaled less than \$50,000.
- **Financial Return**  
Measures undertaken had a payback period of approximately two-months.
- **Other Benefits**  
Beyond direct energy reductions, Crosby ISD also experienced a 15% improvement in comfort scores. This increased comfort translates into a healthier learning environment for students as well as a decrease in the number of comfort-related complaint calls received by maintenance staff.

**Monitoring & Verifying Energy Savings**

ALC used the M-Power utility monitoring system to record real time data on energy consumption and facility comfort levels. As a result, Crosby was able to quantify both energy usage and environmental improvement by comparing data collected by the M-Power tool prior to implementation of conservation measures to that collected afterward. Savings and consumption reports generated by M-Power were validated by actual energy bills and energy performance ratings obtained by using the ENERGY STAR Portfolio Manager tool.

**Distinguishing Value**

Successful low- and no-cost strategies and procedures implemented by Crosby ISD can be replicated to provide repeatable energy conservation successes in school districts nationwide.

