

CLOUDCROFT MUNICIPAL SCHOOLS

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ENERGY EFFICIENT BUILDING AUTOMATION SYSTEMS

CORPORATE HISTORY: Energy Control Inc. (ECI) is a premier provider of intelligent energy solutions and cost savings since 1976. ECI is an expert in financing & installation of energy efficiency projects focusing on direct digital control, lighting, heating, ventilation, air conditioning (HVAC) and renewable energy.

Project Vision: Improve environments by optimizing comfort while enhancing building efficiency; and in turn generating utility consumption and costs savings.



Cloudcroft Middle & Elementary School

PROJECT HISTORY: Cloudcroft Municipal School District was having environmental control issues in the Elementary School. While the upstairs occupants were relatively warm, downstairs students and teachers were in coats. ECI conducted a mechanical system audit to remedy their Heating, Ventilation & Air Conditioning (HVAC) issues. ECI also looked at overall systems to incorporate solutions for other building inefficiencies which could provide comfort.

ECI addressed the heating system, fire alarm, roof, drainage, and plumbing system deficiencies and provided the District feasible corrective options. Cloudcroft School District elected to correct all systems.

HVAC SOLUTIONS: ECI was able to rectify the building heating issues in the Elementary School. ECI worked with the manufacturer to

insure equipment operability and efficiency at high elevation. The system operates at an astonishing 93% efficiency. ECI replaced non-functioning mechanical equipment, added gym cooling, and added a Direct Digital Control system (DDC) utilizing Delta Controls BACnet®. This provides the facility operators a networked system control station to review and modify system functions and temperatures in all the schools.

MEASURES: • central heating plant • fiber-optic cabling • DDC controls • cooling systems • fire protection system upgrade • VoIP (Voice over Internet Protocol) telephone system • general contracting

In addition ECI has also provided web-based surveillance, LED Lighting for School Gyms and re-lamp of the Elementary School.

TECHNOLOGY SOLUTIONS

- Energy Efficient HVAC Equipment
- DDC and BACnet® Control System
- Sprinkler System Retrofit
- (VoIP) Telecommunications
- Roofing, Drainage & Plumbing
- Web-based Video Surveillance
- LED & Fluorescent Lighting Retrofit

BENEFITS

- \$3,208,000 in Capital Improvements
- Comfort Control in Classrooms
- Grant Funding
- Effortless Control System Interface
- Building Systems Interoperability
- Utility Cost Savings
- Service & Support of All Systems



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Using technology to improve the use of energy and create a better environment