

CASE STUDY

Cedar Hill Independent School District

High Pointe Elementary, Permenter Middle School West Intermediate and District Energy Reporting.

Challenge

In 2013 Cedar Hill ISD (CHISD) was challenged to find a solution to improve HVAC control, monitor and lower energy costs while improving the learning environment at three campuses. CHISD having had Energy Management Systems (EMS) before knew the benefits of a web-based Building Automation System; however, the cost and the condensed summer project schedule had to be addressed.

Solution

After evaluating their options, CHISD chose Logical Solutions, Inc. (LSi) as their partner for our first EMS project in CHISD. The LSi/CHISD team carefully assessed all the buildings and determined that a joint project installation was both cost and time of installation effective solution. The LSi/CHISD team installed the WebCTRL® system from Automated Logic Corporation (ALC). Automated Logic is an industry leading BACnet system that leverages open option interface tools to save energy and report on the environmental conditions within the school district.

Result

As a result, Cedar Hill ISD lowered energy consumption for the schools utilizing the WebCTRL system. Energy bills are now evaluated on a weekly, monthly and yearly cycle. These evaluations capture, monitor and assess energy usage data to identify saving opportunities. These evaluations help develop and implement energy conservation measure to further reduce operational cost without major changes to existing systems.

No cost energy conservation measures had immediate impact on energy cost and the building learning environment. WebCTRL building management functions enabled CHISD to define occupancy schedules, adjust set points and control other parameters affecting utility expenses. While saving money is important, the district knows that student learning is linked to classroom comfort and with WebCTRL's Environmental Indexing capabilities CHISD now has a way to balance the school class room environment along with energy consumption.

Mike Villarreal with CHISD claims "Environmental Index provides a simple and effective solution to measure the learning environment conditions". The schools have improved comfort conditions along with energy savings.

**"I promote the system 100%
- I love it!"**

**- Mike Villarreal
Energy Manager
Cedar Hill ISD**