

# Alvin Independent School District



## CUSTOMER BENEFITS

- Guaranteed energy savings
- Improved learning environment
- Centralized and remote access
- Self-maintained and managed systems

## PROJECT AT A GLANCE

Project Type:  
Energy Performance Contract

Location:  
Alvin, Texas, USA

Number of Buildings:  
14

Guaranteed Annual Savings:  
\$599,097

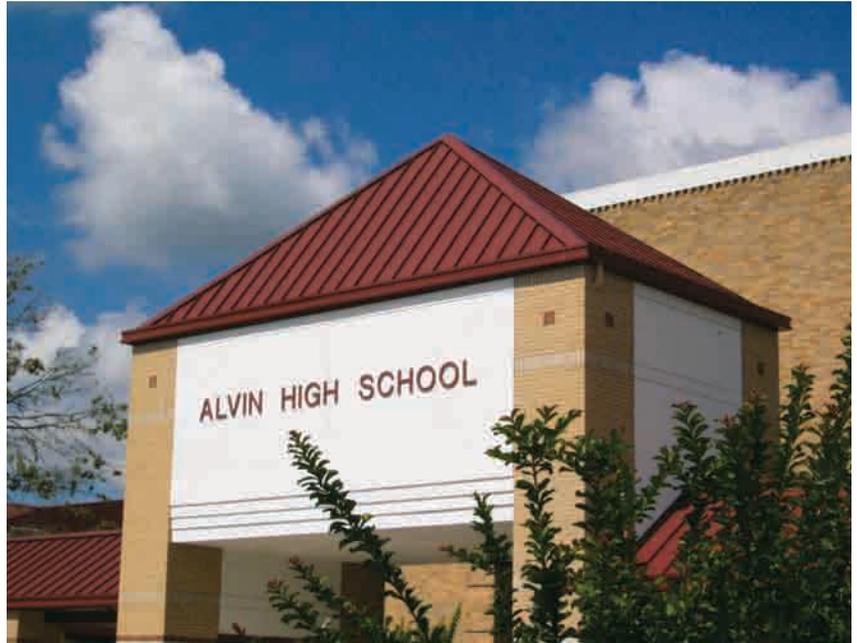
### Energy Conservation Measures:

- Energy management direct digital control system
- Lighting retrofit
- Central plant upgrade
- Mechanical retrofits

### Environmental Facts:

Alvin Independent School District annually saves energy that is equivalent to ...

- Reducing 17,273 tons of CO<sub>2</sub> from the atmosphere
- Removing 3,014 automobiles from the roads
- Planting 4,698 acres of trees



Alvin Independent School District (ISD) seized an opportunity to finance an energy management system and lighting retrofit for multiple buildings in the district with the energy savings guaranteed by a performance contract.

## The Challenge

The 17 schools in the Alvin ISD sprawl across 250 acres just south of Houston. Up until 1964, all grades were at a single location – a tract of land occupied by today's high school complex, which comprises 19 buildings for classrooms as well as a library, natatorium, competition gym, field house and fine arts center.

In 2002, Alvin ISD targeted 14 buildings throughout the district for an EMS and lighting retrofit. Deciding that it was more cost-efficient to upgrade the central plant rather than construct additional buildings, the district determined that a performance contract was the best way to finance the project.

In its desire to work with a vendor that would leverage the district's investment in existing systems and provide an open solution that was not product-specific, Alvin ISD awarded a performance contract to Schneider Electric.

### The Solution

After performing an energy audit, Schneider Electric analyzed energy usage in the targeted buildings and developed a plan to upgrade the existing EMS central plant and retrofit the lighting to make them more energy efficient. The company also trained the district's facilities staff to self-maintain and manage the upgraded central plant.

With much of the construction going on at the high school campus, unforeseen challenges were inevitable. However, Schneider Electric worked seamlessly with the general contractor to tackle these challenges head-on to achieve the desired results.

Alvin ISD financed the \$6.35 million project with bond money and a tax-free lease arranged through a third party. Annual guaranteed energy savings will enable the district to repay the loan.

### The Bottom Line

Schneider Electric's performance contract guarantees annual energy savings of \$599,097. But within the first 10 months, the district had already saved \$613,716, and projected annual energy savings are expected to reach \$704,819.

As a result of the successful outcome of this performance contract and its positive relationship with the company, Alvin ISD has referred Schneider Electric to other school districts – and one has already engaged their services.