



K-12/HIGH EDUCATION

“Our high school’s HVAC system operated so efficiently after the retrofit that we spent \$36,000 less on energy the following year. And this was after we expanded the building by 63,00 square feet.”

– **Bob Atkins**

**Director of Maintenance & Operations,
Santa Fe Independent School District**

PROJECT AT A GLANCE:

- **Project Gross Footage:**
(TO COME)
- **Project Cost:**
(TO COME)
- **Payback:**
(TO COME)

Upgraded systems cut a High School’s energy costs \$36,000 a year – even after a 63,000 sq. ft. expansion.

◆ CHALLENGE

Like most cash-strapped school districts, the Santa Fe Independent School District was struggling for years to operate its classrooms and administrative facilities using obsolete energy systems and antiquated building-control technology. When their old air-cooled chillers became too expensive to operate because condenser fan motors frequently burned out and other HVAC components failed, they decided to upgrade the energy systems at four of their buildings.

◆ SOLUTION

Santa Fe ISD called on The Hunton Group to develop a comprehensive upgrade strategy that would reduce their buildings’ energy consumption and improve building-control technology, helping the district cut its escalating energy and operating costs.

After a thorough analysis, The Hunton Group recommended that a 600-ton water-cooled chiller be installed outside the high school to service that building. Because this chiller is a free-standing packaged system, it was quickly connected to the existing electrical and water infrastructure, minimizing the district’s installation costs. The chiller was supplemented by a 120-ton heat-recovery chiller that was also recommended for the high school to maximize the building’s heating energy efficiency.

The Hunton Group’s upgrade strategy also included a new 300-ton air-cooled chiller that was installed at the district’s junior high school to service that building. Finally, the high school’s existing air-cooled chiller was transferred to the districts nearby elementary school, where it is proving a useful and economical addition to that building.



ENERGY SAVINGS

- Energy Saved:

Natural Gas: 60% reduction/year
at High School

Electricity: 10% reduction/year
at High School

- Building Energy Use Intensity

Before: (TO COME)

After: (TO COME)

- Energy Star Rating

Before: (TO COME)

After: (TO COME)

- Energy Star EUI Average:

(TO COME)

ENVIRONMENTAL IMPACT:

(TO COME)

PROJECT TIME LINE:

- Results Verification:

(TO COME)

- Project Completed:

(TO COME)

- Project Started:

(TO COME)

- Energy Evaluation/Audit:

(TO COME)

Once these new chillers were installed, The Hunton Group's Convergentz division integrated each of them into the district's existing building-control system, providing Santa Fe ISD with the ability to more effectively control their new energy systems, which helps reduce ongoing operating costs.

◆ RESULTS

By upgrading their obsolete energy systems and building-control technology, Santa Fe ISD cut the cost of natural gas used by their High School four buildings by 60% a year and reduced their High School electricity costs by 10% a year.

Even after the district expanded their newly upgraded high school by 63,000 sq. ft., the building was operating so efficiently that its energy costs were \$36,000 lower than the year prior to the systems upgrade. Which proves that a well-planned and expertly implemented systems upgrade will yield energy cost savings long after the project ends.

◆ WHY CHOOSE HUNTON GROUP?

In addition to world-class systems and innovative solutions, The Hunton Group is known for its expert and reliable people - the team that delivers energy efficient HVAC systems, top-notch facility service and parts support, sophisticated open control systems, financial solutions and now, as an independent energy producer.

◆ FOR MORE INFORMATION, CONTACT:

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