

School District Saves Hundreds of Staff Hours and Nearly \$130k in Utility Costs in 2018

Background

Founded in 1882 and located about 25 miles north of Dallas-Fort Worth, the Denton Independent School District is committed to providing quality education through a portfolio of 45 K-12 schools and other educational facilities.

For the past 28 years, TDIndustries has provided integrated facilities management services for Denton, including a staff of 25 to serve Denton's 45 buildings. TD's team continuously seeks ways to add value to Denton by providing expertise, identifying problems and cost-savings opportunities, and implementing solutions.

Challenge

To help the school district improve its energy performance, TD needed to analyze past data from old utility bills. Denton employees were spending hundreds of hours each year gathering and entering this data, overloading both the district and TD's analysts.

Because the data collection/entry process took so long, the performance trends were 6-8 months old by the time TD could do the analysis.

This long process impacted TD's ability make meaningful operating changes fast and efficiently. In addition, TD was using this older data to provide semi-annual executive portfolio reports to the school board, which were not showing an accurate picture of recent energy-saving efforts and opportunities.

Denton asked TD to develop a more intuitive way to report on energy usage to free staff for more efficient work and to help justify spending money on building improvements.

Solution

TD brought in their partner, EnergyPrint, to assist Denton with their utility bill data collection process and take the intense administrative burden off Denton's plate. Next, TD collaborated with EnergyPrint to build custom Insights Architect™ reports and email alerts — that leverage EnergyPrint's accurate and timely data services — to help the TD team discover building outliers faster and propose solutions more quickly for optimal energy efficiency and savings throughout the year. The Denton team also used the reports to identify outlier spikes which may indicate potential utility billing issues or equipment breakdowns.



“TDIndustries is a true partner that offers us significant value by managing our buildings as efficiently as possible. By introducing us to EnergyPrint's services, we're saving hundreds of hours of staff time each year and ultimately providing better education for our students by redirecting those hours and cost-savings toward student services.”

— Dr. Jamie Wilson, Superintendent, Denton Independent School District

Highlights

 Industry:
Education

 Location:
Dallas/Fort Worth,
Texas

 Solutions:
Utility Dashboard
Insights Architect™

✓ Results

With help from EnergyPrint, TD and Denton identified several efficiency measures for their portfolio of buildings. TD implemented HVAC scheduling audits for operational efficiency and retrofitted an LED lighting system and smart irrigation systems to increase energy savings.

Additionally, the Denton team discovered utility billing issues at two of their facilities and quickly acted to fix a water leak at another facility after a report revealed a sharp spike in water usage.

Through these and other measures, TD was able to report significant savings to the Denton school board at a recent semi-annual meeting. Even with an increase in square footage across their portfolio, Denton ISD saw nearly \$130,000 in utility cost reduction through the 2018 fiscal year, and continue to see their energy costs go down per square foot.

25%
reduction in natural gas costs

6%
reduction in energy consumption

\$130k+
in utility bill savings

Utility Performance Trends

