



Temecula Valley Unified School District

School District Earns High Grades for Efficiency

The Start of Something Special

It was back in 2011 when the Temecula Valley School District (TVUSD) took its first deep dive into the benefits of reducing energy consumption. Like many in the education sector, TVUSD faced, and continues to face, budget and funding challenges. Lowering energy costs became a key area of interest for the school district in its push to save money where it could.

As a first step, TVUSD established a comprehensive energy conservation program aimed at lowering the use of electricity, natural gas and water. “We have two dedicated energy managers,” explained Janet Dixon, director of facilities for TVUSD. “The investment of their time has come back many times over.”

The proof is in the savings. Since 2011, the school district has saved nearly \$5 million (and counting) in operating costs.

Paying Less for Heating and Cooling

As part of its ongoing efficiency efforts, TVUSD recently en-rolled in our HVAC Optimization Quality Maintenance program. The program provides a streamlined process to reduce heating and cooling costs through system optimization and routine maintenance.

Improving building comfort is another huge benefit, especially in a school setting. Studies show that a more comfortable class-room setting can lead directly to greater focus and academic achievement. Other benefits include healthier indoor air quality, which reduces the threat of airborne illnesses, and fewer maintenance issues that can result in unplanned downtime and costly repairs through the annual budget.

Project Overview

SCE Programs Utilized:
HVAC Optimization Quality Maintenance, including Variable Frequency Drive and Demand-Controlled Ventilation (VFD and DCV)

Results:

Total Paid Incentives:

\$447,351

Total expected paid incentives, over the lifetime of the three-year maintenance agreements:

\$1,262,499

Total kilowatt hour savings YTD:

815,169 kWh

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Janet Dixon
Temecula Valley Unified School District
Director of Facilities

To ensure Quality Maintenance lives up to its name, all work is performed by contractors specially trained in boosting HVAC efficiency. Their work must also meet the recommendations of Standard 180, the highest available industry standard for commercial HVAC performance.

Participating customers sign up for multi-year Maintenance Agreements tailored to their specific needs, and receive cash incentives in return. In the case of TVUSD, 27 building sites were enrolled with around 30,000 students, faculty and staff. Because TVUSD is an owner-operator with its own staff of technicians, the district was able to use the Quality Maintenance program to train those technicians to perform the HVAC Optimization and maintenance services.

For each site, the technician assesses the current condition of the HVAC system and determines the appropriate tests and repairs to meet program standards. Regularly scheduled maintenance takes place throughout the course of the Maintenance Agreement, ensuring top-notch performance and persistent energy savings.

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With every penny saved on energy and maintenance costs, TVUSD can now focus on redistributing those funds back into the classroom and other areas of need. That means a great deal for a school district that has faced annual energy expenses upwards of \$5 million.



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