



El Paso Electric

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Energy Efficiency Programs Bulletin

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ABOUT THE PROGRAMS

El Paso Electric offers the SCORESM Program to provide viable energy optimization for school districts, colleges, universities, cities and counties. Designed to educate institutions on energy management and encourage investment in energy efficiency, this program helps partners minimize the impact of volatile energy costs, ease budget pressures, improve infrastructure and provide optimized learning environments for students.

For more information about the SCORE Program, contact El Paso Electric Program Coordinator, Araceli Perea, at (915) 543-4197 or araceli.perea@epelectric.com.

The programs are sponsored by El Paso Electric and administered by CLEAResult. You can reach SCORE Account Lead, Angie Boone, at (915) 479-8002 or aboone@clearresult.com.

Program Year In Review: Looking Back at 2010

What a great year! As the 2010 program year came to an end last December, it was apparent that the SCORE Program was tremendously successful.

Through 126 projects, program participants saved a total of 1,816 kilowatts of peak electric demand. That's equivalent to eliminating the annual greenhouse gas emissions of about 592 passenger vehicles, according to U.S. Environmental Protection Agency calculations.

In addition, the SCORE Program paid more than \$335,000 in incentives to 18 program participants to assist in reducing their "first cost," a common barrier to installing higher efficiency equipment.

As the 2011 SCORE Program kicks off, El Paso Electric and the SCORE team anticipate equal, if not greater success, this year.

For details about the Program, please reference the 2011 SCORE Program Manual, available through your SCORE Account Lead, Angie Boone, at aboone@clearresult.com.

El Paso Water Utility Undertakes Lighting Retrofit

El Paso Water Utility's Energy Management Coordinator, Manual Perez, knew it was time to retire their inefficient and antiquated T-12 lighting system. However, he was wary of the more aggressive solution presented to him following the SCORE Program's pre-inspection of the utility's four-story Hawkins Building. Unsure that using fewer T8 lamps and reduced power factor ballasts would provide the appropriate lighting levels, Perez visited several other local facilities previously assisted by the SCORE Program.

"tombstone" connections to ensure proper lamp connectivity. Lastly, the incandescent lighting throughout the building was retrofitted with 16-watt compact fluorescent lamps with locking rings.

While the resulting incentive payment of \$6,870 assisted in reducing the first cost of this renovation, Perez's openness to new ideas and long term vision will result in saving an estimated 166,590 kWh or over \$16,600 per year on electric bills.

"It was important that we maintained the lighting standard in the building," said Perez. "El Paso Electric's close relationship with previous SCORE participants made it possible for me to see efficient lighting in use in other facilities."

The final installation was composed almost exclusively of two, 28-watt T8 lamps with reduced output premium ballasts. The existing fixtures were further retrofitted with new



A Good Defense is the Best Offense

A common hurdle our participants encounter is finding a truly effective way of communicating their desire for cost effective and energy efficient technologies to their internal staff and contracted design teams. To combat this dilemma, the El Paso Electric SCORE Program has recently begun a

campaign to help participants create Design Criteria Documents for both lighting and HVAC systems. Working closely with the participants, the SCORE Program team analyzes any existing specification documents and provides recommendations for energy efficient and cost effective technologies. The resulting Design Criteria Document can stand alone or be included in the participant's existing specifications. This additional assistance gives the participant a strong first line

of defense and pro-actively provides guidance to their design team or internal staff ensuring cost effective, consistent, energy efficient systems.

To date, the SCORE team has completed such Design Criteria Documents for Ysleta ISD and the University of Texas at El Paso. The criteria are currently in the process of being integrated into future new construction and renovation projects.

Higher Efficiency Doesn't Require Higher Cost

When Riverside High School required a new chiller in 2010, Ysleta ISD placed its order for a new 200 ton Carrier Aqua Snap chiller. A few weeks later, YISD Energy Manager Al Gallardo, approached the SCORE Program team with a request: Could they do a quick analysis of the new chiller and verify it was Riverside HS's best option?

The SCORE team quickly reviewed the provided information and determined that there was a more cost effective and energy efficient option. The Carrier Aqua Force model would provide much greater long term savings for the school and garner a much larger incentive payment from El Paso Electric to offset the increased first cost.



The SCORE team reported that installing the Aqua Force model instead of the Aqua Snap would mean an additional 26 kW of peak demand savings and 33,600 kilowatt-hours per year, equivalent to preventing the carbon dioxide emissions of more than 2,700 gallons of gasoline. Additionally, the incentive payment provided by El Paso Electric would actually exceed the cost of the upgrade by nearly \$3,000. The bottom line was that YISD could purchase a higher efficiency chiller for a lower first cost than the lower efficiency chiller because of their EPE SCORE incentive, and continue saving money year after year as well! Recognizing this value, YISD issued a change order prior to delivery and installed the more efficient chiller.

"El Paso Electric expressed that the extra kilowatts the new chiller would save meant saving an additional \$3,360 annually on electric bills," said Gallardo. "That kind of information makes a huge difference to top-level decision makers, and I have the SCORE program to thank for that."

Benchmark Your Way to Savings In 2011

Benchmarking provides a solid base for establishing clear goals and defining your energy management strategy. The benchmarking process first analyzes your various facilities' energy usage and then expresses the results in a full color, customized Benchmarking Report. This report graphs such useful information as energy use/square foot, cost/ square foot and cost/occupant. The Report further compares your buildings' energy performance against buildings both locally and in similar climates across the country. These results then help identify which of your facilities offer the greatest opportunity for energy and cost savings. This benchmarking process has proven to be a highly useful tool in implementing energy efficiency opportunities and better management practices.

Benchmarking can benefit your organization by:

- Helping focus energy efficiency investments in a cost-effective manner

- Helping organizations gather, analyze and understand the importance of tracking energy usage data
- Identifying Key Performance Indicators for future reporting
- Determining if facilities qualify for energy efficiency awards and certifications
- Creating marketing value by providing proof of efficiency to donors, investors, tenants, or the community
- Supporting investment grade audits on lower-performing buildings

Benchmarking is a free service offered by the SCORE Program. For more information about benchmarking your facilities, please contact Angie Boone at 915-479-8002 or aboone@clearesult.com.