

# CenterPoint Energy

## Energy Efficiency Programs Bulletin

VOLUME 3, ISSUE 1 | WINTER 2012



**THANK YOU** for helping CenterPoint Energy reach and exceed its 2011 energy efficiency goals.

Your efforts are equal to removing 1,891 cars from Houston roadways for one year.

We look forward to working with you in 2012 to save energy and money.

- Cheryl Bowman

### 2011 Program Results

Programs	kW Achieved	kWh Achieved	Incentives Distributed
SCORE	1,395	3,479,446	\$452,653
SCORE Lite	3,994	9,679,774	\$887,980
CitySmart	183	824,180	\$58,258
<b>Total</b>	<b>5,573</b>	<b>13,983,400</b>	<b>\$1,398,892</b>

### In-House Expertise Yields Surprising Results

By the numbers: 189,395 kWh | \$17,412 incentive

For some school districts, it can be difficult to get out of maintenance mode and proactively address efficient infrastructure and equipment improvements. One Houston area district is overcoming the hurdle and saving energy and money along the way.

Working one-on-one with SCORE staff, Clear Creek ISD laid out the scope of work for retrofitting lights throughout its Clear Lake Intermediate School. When comparing costs, district officials saw an opportunity to save nearly **\$47,000** on labor and materials by using CCISD staff to complete the retrofits, instead of contracting out the work.

"If we used existing, budgeted staff to complete the work, and we controlled our regular maintenance schedule, our labor costs were already budgeted and paid for," said Director of Maintenance Kevin Harris. "From this point of view, the labor was low-cost/no-cost."

Harris and his team developed a labor task group to perform the retrofits in-house, while continuing to process routine work orders in a judicious time frame. There were initial concerns from school staff regarding de-lamping, so Harris worked to educate the staff on the benefits of higher, more efficient lumen output and color rendering.

The maintenance team has developed a pilot program at the school to verify the correct lamps are installed in the correct fixture and the energy savings is on track with projections. They are also maintaining accurate warranty information for each lamp so they can recoup costs from failed lamps. Each year, the team plans to review planned retrofits with SCORE Program staff to identify projects that qualify for incentives.

"The SCORE staff spared no effort in helping us with project development, application specifications and project qualifications," said Harris. "The SCORE Program ensures that we ultimately finalize each improvement effort by researching and recommending the product or system that will give us the most efficiency value at the best installation cost."

SCORE<sup>SM</sup> and CitySmart<sup>®</sup> are no-cost programs offered by CenterPoint Energy to school and government customers to improve energy efficiency and reduce operating costs. Based on your individual needs, the program will provide customized assistance, such as:

- **Energy Performance Benchmarking:** learn where and how your buildings are wasting energy.
- **Energy Master Planning Workshops:** learn energy management best practices that staff can employ to maximize long-term savings.
- **Financing Assistance:** learn about the many options available to finance energy efficiency projects that involve little to no up-front cost.
- **Technical Assistance** to help identify and evaluate energy-efficiency opportunities.
- **Communications Support** to help publicize your leadership and accomplishments in energy efficiency.
- **Incentives:** earn varying cash incentives for lighting, HVAC, roofing and other projects that reduce peak electric demand.

SCORE Lite is a similar no-cost energy efficiency program for schools that allows participants to earn higher financial incentives if they elect not to participate in the non-cash incentives that SCORE provides.

For more information, please contact Cheryl Bowman, CenterPoint Energy Program Manager, at (713) 207-5631 or [cheryl.bowman@CenterPointEnergy.com](mailto:cheryl.bowman@CenterPointEnergy.com).

The programs are sponsored by CenterPoint Energy and administered by CLEARResult. Contacts:

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# PARTNER SUCCESS

The following partners completed projects in Oct.-Dec. 2011 and were awarded incentives in the fourth quarter:

**City of La Porte**  
\$7,312

**City of Pasadena**  
\$9,337

**City of Sugar Land**  
\$2,103

**City of West University Place**  
\$317

**Alief ISD**  
\$21,162

**Conroe ISD**  
\$3,097

**Crosby ISD**  
\$13,343

**Cypress Fairbanks ISD**  
\$35,137

**Fort Bend ISD**  
\$286,873

**Goose Creek ISD**  
\$6,247

**Houston ISD**  
\$30,541

**Humble ISD**  
\$8,393

**Katy ISD**  
\$73,689

**La Porte ISD**  
\$857

**Lamar CISD**  
\$26,484

**Lone Star College System**  
\$31,708

**Needville ISD**  
\$2,273

**North Forest ISD**  
\$30,373

**Santa Fe ISD**  
\$10,507

**Sheldon ISD**  
\$2,849

**Spring Branch ISD**  
\$78,744

**Tomball ISD**  
\$13,098

**Klein ISD**  
\$176,099

**UTMB**  
\$110,621

## Congratulations, Partners!

## Sky High Savings in Crosby

By the numbers: 121,188 kWh | \$13,343 incentive

New SCORE Program partner Crosby ISD jumped in head first in 2011 to complete a handful of projects, including three ENERGY STAR® qualified roof coatings at Crosby Elementary and Crosby Middle schools, as well as the Administrative building. The Administrative building also got a high efficiency air conditioning system, and Crosby Elementary had new air conditioning and lighting systems installed.

In May, SCORE Program staff conducted an energy performance benchmarking study on the district's six schools and two support facilities. Benchmarking the energy performance of the district's schools is the first step in determining where and how to implement energy improvements within the district. The results of the study show Crosby ISD is more efficient than most other similar-sized districts in the area.

Following the benchmarking study results, district officials participated in an Energy Master Planning Workshop to lay out a plan for future energy efficiency projects.

This year, the district is seeking approval to retrofit lighting systems at Barrett Elementary, Newport Elementary, Crosby Middle, Drew Intermediate, and Crosby High.



Crosby Middle School Roof



Humble ISD staff show off a novelty check representing the \$290K+ incentives the district has earned since joining the SCORE Program

Texas Association of School Business Officials Convention

Houston, TX

## New 2012 T-8 Lighting Requirements = More Savings

By Kyle Hemmi, SCORE and CitySmart Program Engineer

Due to new federal standards for linear fluorescents, standard T-8 electronic ballasts and lamps are no longer eligible for utility incentives in retrofits as of January. These new requirements, outlined to the right, are based on Consortium for Energy Efficiency (CEE) High Performance T-8 System (HPT8) standards. Detailed information and approved product listings can be found on the CEE website at <http://www.cee1.org/com-lt/com-lt-specs.pdf>.

The HPT8 systems offer more savings potential than standard systems and they make good technical and economic sense for program participants. In many cases, these systems can produce an additional 25% savings compared to standard electronic systems. And because the cost to install HPT8 systems is typically \$3 - \$5 per fixture, customers will usually experience a rapid payback. Other benefits include:

- longer lamp life
- better color rendering
- reduced maintenance & stocking costs

### CEE High Performance T-8 (HPT8) Lighting Systems

Lamp Requirements*		Ballast Requirements	
Wattage	≤ 32	Ballast Factor	Low / Normal / High
CRI	≥ 80	Frequency	20 to 33 kHz or ≥ 40 kHz
Initial Lumens	≥ 3100	Power Factor	≥ 0.90
Mean Lumens	≥ 2900	Harmonic Distortion	≤ 20%
Life (hrs)	≥ 24,000	Ballast Efficacy Factor	See website

\* For 30W/32W Products. See website for CEE requirements for reduced 25W & 28W products.

HPT8 System Efficacy: ≥ 90 Mean Lumens per Watt (MLPW) for Instant Start Ballast (all wattages) or ≥ 88 MLPW for Programmed Rapid Start Ballasts

While the new requirements do not affect new construction projects, HPT8 systems make the best sense in those projects for the same reasons. Take into account that IECC 2009 (ASHRAE 90.1-2007) lighting power densities are now the applicable energy code in Texas and you'll quickly realize that HPT8 is the most logical solution for new construction, too.