



# Texas-New Mexico Power

## Energy Efficiency Programs Bulletin

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### Efficiency From the Ground Up

By the numbers: 103,143 kWh | \$4,326.50 incentive | \$10,314 annual savings

Hamilton County, located west of Waco, finished its first set of energy efficiency projects since joining the CitySmart Program. Its new courthouse, pictured below, is outfitted with high efficiency lighting, roofing and an innovative geothermal ground loop heat pump system.

The ground loop heat pump system is the first of its kind for the county and uses ambient temperature from below ground to heat and cool the building. County Commissioner Dickie Clary said the county chose to install this type of system because it is a "highly efficient system and is projected to save county taxpayers thousands of dollars in energy costs over the next several decades of use."



The energy savings from the lighting and HVAC systems are equal to the carbon dioxide emissions from nearly 8,000 gallons of gasoline, according to U.S. Environmental Protection Agency calculations. The equipment will save the county approximately \$10,000 annually.

"Hamilton County joined the CitySmart Program to gain valuable knowledge and information about our facilities' energy consumption, as well as discover what opportunities were available to improve energy efficiency," said County Commissioner Dickie Clary.

The county is investigating plans for a lighting retrofit at the Sheriff's Office and the County Annex.



Texas-New Mexico Power offers the SCORE<sup>SM</sup> Program to provide viable energy optimization for school districts, colleges and universities. 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 optimize learning environments for students.

The CitySmart<sup>®</sup> Program helps local government entities enhance energy efficiency, lower operating costs, improve air and environmental quality, and meet legislative and regulatory requirements.

Similar to SCORE and CitySmart, the TNMP Commercial Solutions Program provides technical and financial support to help commercial and industrial organizations identify and implement energy efficiency upgrade projects.

For more information about the SCORE, CitySmart and Commercial Solutions Programs, contact TNMP Project Manager Stefani Case at (469) 484-8590 or [stefani.case@tnmp.com](mailto:stefani.case@tnmp.com).

The programs are sponsored by Texas-New Mexico Power and administered by CLEARresult. You can reach CLEARresult at (877) 338-8667 or [tnmp@CLEARresult.com](mailto:tnmp@CLEARresult.com).

Visit us online: <http://eeprograms.net/tnmp>

# PARTNER SUCCESS

The following partners were recently awarded for completed projects:

Alvin ISD  
\$1,425

Blue Ridge ISD  
\$2,638

Columbia Brazoria ISD  
\$1,258

Dickinson ISD  
\$19,705

Fort Stockton ISD  
\$198

Friendswood ISD  
\$1,798

Glen Rose ISD  
\$214

Hamilton County  
\$4,326

Huffines Chevrolet  
\$1,392

Jenny Craig Lewisville  
\$259

Pecos-Barstow-Toyah ISD  
\$164

## Congratulations Partners!

## Leader of the Pack

By the numbers: 266,061 kWh | \$10,007 incentive | \$26,606 annual savings

League City had big plans when it joined the CitySmart Program in 2009. After participating in an Energy Master Planning Workshop, the city took its energy efficiency plans into overdrive in 2011, completing 11 individual projects throughout the city!

This year, the city has several innovative projects underway, including an LED traffic light installation.



## R-22 Refrigerant Phaseout

The U.S. Environmental Protection Agency is phasing out R-22 refrigerant because it contains hydrochlorofluorocarbons (HCFCs).

How does this affect you? As a frame of reference, a 125-ton chiller contains at least 1,250 pounds of R-22. If it lost 25% of its refrigerant annually due to repair issues, it would cost about \$6,000 at today's R-22 price (\$425-\$540 per 30-pound tank) to refill the refrigerant.

The cost of R-22 refrigerant is going up as the demand increases and supply decreases. If you have chillers in inventory that have maintenance issues, it's important to work with your program representatives to see what type of equipment would qualify for retrofits. Up-front costs to install new chillers could help avoid increasing maintenance costs in the future due to this product phaseout. By 2020, servicing of systems with R-22 will rely solely on recycled or stockpiled quantities, which will make R-22 harder to find and much more expensive to purchase.



### Phaseout of R-22 and R-142b

HCFC-22 (also called R-22) and HCFC-142b are the next two HCFCs being phased out by the United States.

**January 1, 2010:** Ban on production and import of HCFC-22 and HCFC-142b except for continuing servicing needs of existing equipment.

**January 1, 2015:** Ban on sale and use of all HCFCs except for certain uses, including continuing servicing needs of refrigeration equipment.

**January 1, 2020:** Ban on remaining production and import of HCFC-22 and HCFC-142b.

**After 2020, the servicing of systems with R-22 will rely on recycled or stockpiled quantities.**

## Q&A with Stefani Case, EE Project Manager

### What is your role at TNMP?

As the EE Project Manager, I coordinate, manage and administer the portfolio, implementation and budget, as well as support the regulatory requirements and policies that affect energy efficiency.

### In your opinion, what is the biggest challenge schools, cities, and businesses face when trying to implement energy efficiency projects?

The biggest challenge is comprehensive—identification of energy efficiency opportunities, finding resources to implement measures and acquiring funding are all challenges.

### What is the most satisfying aspect of the programs for you personally?

The most satisfying aspect is that the customer has one very capable point of contact to walk them through handling all the challenges listed in order to qualify and receive incentives for becoming more energy efficient.

### Looking ahead five years, what role will energy efficiency play in Texas?

As Texas is currently facing a resource adequacy concern, I hope that in five years energy efficiency has helped to subside that concern and save the expense of funding new generation.