



# Energy on Campus

5x5 Presentations

North Central Texas Energy Forum

October 26, 2016

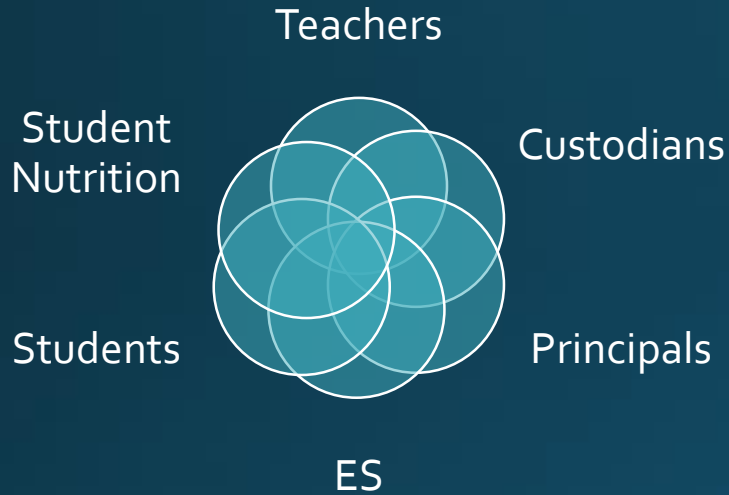
# Creating A Culture of Conservation



Mansfield  
Independent  
School District



# Motivations and Context



To reduce energy usage district-wide in an effort to reduce:

- ❖ energy costs
- ❖ environmental impact

Goal is to save **\$18million** over 10 years

**We must begin with the end in mind**

2011 - 2012 MISD spent the following on utilities (gas, water, electricity):

- ❖ Natural Gas: \$275,640.20
- ❖ Water: \$946,886.80
- ❖ Electricity: \$4,231,446.55

**Total: \$5,453,973.55**



# Innovation and Energy Initiatives



# Impact and Benefits



## Savings

2012-2013	\$965,847	12.6%
2013-2014	\$1,384,547	17.1%
2014-2015	\$1,578,624	19.0%
2015-2016	\$1,601,107	19.5%
Summer 2016	\$306,472	

## Green x 2

Cumulative savings (2012-present)  
\$6,407,717 18.6%



*Saving millions by saving energy*

**Mansfield ISD Earns Third Consecutive ENERGY STAR Partner of the Year Award**

For the third consecutive year, Mansfield ISD has won the ENERGY STAR Partner of the Year Award, which qualified the district for the ENERGY STAR Sustained Excellence Award. MISD is the only school district in Texas this year to earn that distinction.

The Partner of the Year Award is the highest level of recognition by the U.S. Environmental Protection Agency (EPA). The award is given to organizations that perform at a superior level of energy management and prove organization-wide energy savings.

Since the start of the MISD energy management program in 2012, the district has saved more than \$5.2 million on water, electricity, and natural gas costs. The district's carbon dioxide emissions have been reduced by nearly 20,000 metric tons.

The program also educates students and families about the importance of turning off lights, closing doors, and turning off water to promote conservation and sustainability.

"I am very excited that the district has been named ENERGY STAR Partner of the Year for the third straight year," said Jeff Bergeson, associate superintendent of facilities and bond programs. "Receiving the award is a testament to the dedication of all MISD staff members to make a difference not only monetarily, but also environmentally. We couldn't have done it without everyone's commitment."

MISD has earned 291 ENERGY STAR building certifications since 2006, more than any other school district in the state.

The ENERGY STAR awards ceremony took place on Wednesday, April 13 in Washington, D.C. As part of an incentive to participate in MISD's energy program, two teachers and their principals were selected in a drawing to travel to the ceremony with the MISD energy team, Board President Dr. Michael Evans, and Superintendent Dr. Jim Vasizovskis.

*MISD Energy Specialist Kelly Campbell and Board President Dr. Michael Evans proudly accept the ENERGY STAR award.*

4 Mansfield School & Family

# Lessons Learned



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 www.therideronline.com/top-story/2014/10/09/energy-team-saves-district-over-2-million/

## TheRiderOnline

Legacy High School's Student Newspaper | Mansfield, Texas

NEWS SPORTS FEATURES OPINIONS ENTERTAINMENT PHOTOS LBTV EXTRAS ABOUT US

### Energy Team Saves District Over \$2 Million

Ben Townsend, News Editor • October 9, 2014 • 242 views • [Leave a Comment](#)

In a span of just under two years, MISD saved \$2,657,169 by cutting energy usage across the district. The single most expensive commodity purchased by the school district is energy. Every dollar saved can be put right back into MISD's funding.

Mr. Kelly Campbell and Mr. Dwayne Tampkins work as Energy Education Specialists for the district. They typically perform energy audits on schools before and after students and staff attend school.



Bianca Downs "No."  
 Maynor Colegias "I haven't heard of it."  
 Amanda Mcleory "No, not right now."  
 Arleth Diaz "Honestly, I am not. I am kind of a conspiracy theorist, and it seems like a population or immigration control thing - to keep people out."  
 Annie Feng "Not too much."  
 Elizabeth Martinez "Not really."

## District honored as energy rock stars

**Mansfield earns third straight EPA award**

BY AMANDA ROGERS  
 energy@mansfieldnews.com

Kelly Campbell and Dwayne Tampkins have been prowling the halls in the Mansfield school district for almost four years, turning off lights, shutting off dripping faucets and rounding up three straight ENERGY STAR Partner of the Year Awards, which qualified the district for the ENERGY STAR Sustained Excellence Award from the U.S. Environmental Protection Agency.

The energy specialists have saved the school district \$5.2 million so far,

said Jeff Brogden, associate superintendent of facilities and bond programs.

"It's not really about the money, it's about conservation," Brogden said. "This is as big as the award gets."

In fact, Mansfield is the only school district in Texas to earn award this year, and one of only five in the United States.

The award is given to organizations that perform at a superior level of energy management and prove organization-wide energy savings, according to the ENERGY STAR Sustained Excellence Award from the U.S. Environmental Protection Agency.

"The energy specialists have saved the school district \$5.2 million so far,

electricity, water and natural gas, they also educate students in kindergarten through fourth grade about how to save at home as part of the students' science TEKS.

"We are so proud that we have created a culture of conservation," Tampkins said. "It gives us an opportunity to have a conversation about what happens."

The pair have done such a good job that their responsibilities now include trash and recycling, as part of conservation, Brogden said.

Superintendent Jim Vaszauskas, Mansfield school board president Michael Evans, Brogden, Tampkins and Campbell, as well as two teachers and principals from high-



Energy specialists Dwayne Tampkins and Kelly Campbell helped the Mansfield school district earn its third straight partner of the year award from the Environmental Protection Agency.

Local People. Local News. Mansfield



To *save energy*, I pledge to...

- TURN** it off
  - Turn off TVs, radios, and lamps when not in use.
  - Switch to CFL/LED bulbs.
- SHUT** it off
  - Shut off all running faucets before walking away.
  - Shut off water while brushing your teeth.
  - Limit showers to five minutes.
- CLOSE** the door
  - Close all classroom, hallway, and exterior doors while air or heat is in use.

TAKE THE PLEDGE: [energystar.gov/pledge](http://energystar.gov/pledge) MORE WAYS TO SAVE: [energystar.gov/campaign/ways2osave](http://energystar.gov/campaign/ways2osave)

Signed: \_\_\_\_\_ Date: \_\_\_\_\_



# Next Steps



- Continue working the program and look for new ways to engage the MISD community and the community at large.
- ENERGY STAR POY.
- Exterior Pole Lighting Projects.
- Expanding energy conservation lessons in the classroom and community.



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