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“Working for your children and ours”

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Filed Legislation Could Affect Schools



The 81st session of the Texas legislature began last month. As usual, many bills have already been filed on a myriad of subjects. While quite

a few relate to schools, we will be more closely following those that relate to school construction and energy conservation. So far, there are two bills in these categories.

- SB 300—**repeal the mandate placed on schools districts** in the last session to establish energy use reductions goals
- HB 230—**exempt schools from electric demand ratchet** clauses in utility rate tariffs

Other bills of potential interest include:

- SB 126—would create a two-year **moratorium on granting permits for coal-fired power plants** in the state
- Several bills would **prohibit the use of cellphones in moving vehicles**. Some bills only apply to school zones, while others would disallow their use on all Texas roads.

We will monitor the progress of these bills and update their status in future newsletter issues.

NATIONAL ENGINEERS WEEK

February 15—21

- Engineers make a world of difference
- Engineers are creative problem solvers
- Engineers connect science to the real world

Energy Efficiency in Duncanville ISD Schools

Through effective conservation efforts, when it comes to energy **Duncanville ISD** schools are operating efficiently. **Norman Davis**, Chief Operations Officer and **Charles Moore**, Maintenance Director have been important in supporting these efforts.

Energy (including electricity and natural gas) costs, as low as \$1.02, averaged about \$1.33 per square foot. Costs for other surveyed school districts in the area average approximately \$1.34. Energy use, measured by the energy use index, averages about 40,000 Btu per square foot, compared to an area-wide average of 45,000 to 50,000 Btu per square foot.



With more than 900,000 square feet, Duncanville High School is one of the largest schools in the United States. Air conditioning systems designed

for operating flexibility contributes to its being one of the most economically operating schools in the district with energy costs of \$1.13 per square foot and use of 34,768 Btu per square foot.

TASBO Annual Conference

San Antonio
Feb. 23—26

Come by and see us!
Booth 536

“Understanding and Applying Building Energy Technology”
Feb. 23

Gary Bristow, P.E., EMA
Steve Hanner, Allen ISD
John Gann, Keller ISD

Energy Management: Success at Hays CISD

Energy management and efficiency has paid big dividends at **Hays CISD**, near Austin. Reduced electric consumption resulted in a **\$163,000 savings** for the 2007-08 school year.

Since the effort began in 2003, energy management has been a work in progress at Hays. Electric consumption has decreased each year. Although total building area has increased 44%, **electric use has declined just over three percent.**

A portion of the district's energy savings goes to: each campus, a fund to offset future expenditures, hire energy management personnel, and fund energy conservation projects.

Examples of recent projects include:

- The replacement of metal halide fixtures at two elementary school gyms with fluorescent lighting.
- Installation of motion sensors at one high school and several elementary schools.
- Installation of DDC controls at one facility, to increase their prevalence throughout the district.

Additional projects are planned for this year, including:

- Cleaning the coils on air conditioning units
- Installing more motion sensors
- Adding DDC controls at more facilities
- Installing variable frequency drives

EMA has provided energy consulting, MEP engineering and design, and master planning services

Sergeant Speaks at Energy Managers Meeting

Congratulations to R.C. Herrin, Executive Director of Operations, and the entire staff at Hays CISD for implementing and maintaining a successful energy management program.



David Sergeant was the guest speaker at January's DFW area energy managers network meeting, held at **Hurst-Euless-Bedford ISD**. Sergeant, formerly the Energy Manager at McKinney ISD and

HEB ISD, is now in the energy management department at JC Penney corporate headquarters. He spoke about energy conservation efforts at JC Penney as well as comparing his energy management experiences in schools and the private sector. Network meetings for school personnel, sponsored by the **State Energy Conservation Office** and organized by **EMA**, are held monthly in the Dallas-Fort Worth area.

Congratulations

Alan King, Lewisville ISD, on being named Deputy Superintendent

Engineering
Air conditioning
Communications
Controls
Electrical
Energy
Lighting
Mechanical
Plumbing
Technology

Consulting
Communications
Emergency power
Energy
Fire/Safety
Lighting
Master planning
Media
Research studies
Sustainability
Security
Technology
Workshops/Training

School Experience
35 years service
575 Texas ISDs
47 colleges and universities
Other schools throughout the country



Estes, McClure & Associates, Inc. Engineering and Consulting

35 years providing engineering services to Texas schools
46 employees

13 licensed engineers on staff

575 Texas school districts & 47 Colleges/Universities

By the numbers we are...

The Experienced School Engineers

Company Spotlight

- Congratulations to **James Tate**, who passed his exam and is now a Licensed Engineer in Texas.
- **Amber Phillips** and **James McClure** attended the Tyler Area Chamber of Commerce Business Expo.
- Condolences to **Paula Fenter** on the recent death of her mother.



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