

**State Agency Energy Savings Program
Sam Houston State University
Energy Conservation Plan Update
(Sept. 2008 thru Feb. 2009)**

I. Executive Summary

The State Agency Energy Savings Program provision in Executive Order RP49, signed by Governor Perry on October 27, 2005 requires each state agency to develop a plan for conserving energy and to establish a percentage goal for reducing its usage of electricity, gasoline, and natural gas. Each agency is required to report back to the Office of the Governor and the Legislative Budget Board, along with posting the report in a conspicuous place on the agency's internet site for public inspection.

II. Update to State Agency Energy Savings Program

A. The Sam Houston State University campus consist of sixty-four (64) General Purpose Educational Buildings, forty-four (44) Residence Life Buildings and sixty (60) Auxiliary Buildings and Recreational/Sports related sites.

ELECTRICITY AND NATURAL GAS - For the 6 month period FY09 Sept. 08-Feb 09

FY 09 Month	Area/Sqft	Electric Kwh	Natural Gas MCF	Consumption Bill-btu	EUI/ Kbtu/sf	FY 05 Area/Sqft	EUI/ Kbtu/sf
Sept 08	3,733,827	5,843,752	2,973	23.01	6.16	2,909,693	7.03
Oct 08	3,733,827	6,063,501	4,480	25.32	6.78	2,903,154	7.22
Nov 08	3,733,827	5,299,902	4,537	22.77	6.10	2,903,154	8.01
Dec 09	3,733,827	5,521,153	10,319	29.48	7.89	3,222,832	7.74
Jan 09	3,733,827	5,615,529	11,761	31.29	8.38	3,222,832	7.49
Feb 09	3,733,827	5,226,591	9,265	27.39	7.33	3,222,832	8.36

Comments:

Natural gas consumption during the FY 09 heating months decreased by 18.4% from FY08. This decrease can be attributed to replacing the West Plant steam loop with a hot water loop system and fewer heating degree days during this time frame.

The campus continues to grow with the construction of the new Fine Arts Building. Additional electricity for a large crane and contractor trailers increased consumption; however, this utility consumption is not associated with the current EUI/square foot calculations.

Completion of the new College of Humanities and Social Science Building generated a domino effect with offices relocating and departments moving into the new building. Building operations required fine tuning to accommodate comfort during the move.

GASOLINE

FY 09	Mileage	Fuel Qty.	Average MPG
1 st quarter	116,837	12,868.32	9.08
2 nd quarter	142,201	14,604.44	9.74

Comments:

The average gasoline consumption was 12 MPG during FY08.

Measures were taken by departments to advise vehicle operators to reduce or eliminate engine idle time.

Efforts were taken to consolidate trips or eliminate unnecessary travel.

Several vehicles were replaced that have a lower mpg rating.

B. Steps being taken to achieve percentage goals and ideas to increase the percentage goal for reducing the usage of electricity, natural gas, and gasoline.

- Monthly energy usage is reviewed for opportunities to minimize or improve consumption.
- A Preliminary Energy Audit has been completed and is in the review process.
- An analysis was completed to determine the possible cause of electric distribution line loss on campus.
- Additional meter equipment is in the process of being installed at the campus main switch gear that will help to ensure all electric circuits are correctly metered. The equipment will also be used to identify electric distribution line loss so corrective measures can be put in place.
- Track and evaluate individual building electric consumption.

C. Additional ideas for reducing energy expenditures.

- Implement a campus education program to help ensure unused building lights are turned off when rooms are unoccupied.
- Ensure energy efficient equipment is included in the specifications for new buildings.
- Conduct detail energy audits through a Performance Contract.
- Continue to monitor fuel tracking system and instruct departments to fuel vehicles at central plant where fuel is purchased at a lower contracted price.

III. Posting of Update to State Agency Energy Savings Program

The campus Resource Efficiency Program and Quarterly Agency Energy Updates are located at <http://www.shsu.edu/~ppl.www> . Copies of this report have also been forwarded to the offices below:

Office of the Governor
P. O. Box 12428
Austin, Tx 78711

State Energy Conservation Office
111 E. 17th Street
Austin, Tx 78711

Legislative Budget Board
P. O. Box 12666
Austin, Tx 78711