

**State Agency Energy Savings Program
Sam Houston State University
Energy Conservation Plan Update**

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 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-three (63) 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 12 month period ending August 2008

FY 08 Month	Area/Sqft	Electric Kwh	Natural Gas MCF	Consumption Bill-btu	EUI/ Kbtu/sf
Sept 07	3,585,957	6,237,263	2,707	24.08	6.72
Oct 07	3,585,957	5,868,983	3,817	23.97	6.68
Nov 07	3,585,957	5,346,285	8,317	26.82	7.48
Dec 07	3,585,957	5,014,891	11,536	29.00	8.09
Jan 08	3,585,957	5,287,167	14,029	32.50	9.06
Feb 08	3,585,957	5,113,725	12,721	30.56	8.52
Mar 08	3,585,957	5,272,895	10,559	28.88	8.05
April 08	3,585,957	5,533,885	6,762	25.86	7.21
May 08	3,585,957	5,685,183	3,172	22.68	6.32
June 08	3,585,957	5,878,499	2,288	22.43	6.25
July 08	3,585,957	6,089,414	1,639	22.48	6.27
Aug 08	3,585,957	6,292,303	1,918	23.46	6.54
Annual FY08	3,585,957	67,620,493	79,465	312.71	87.20
Annual FY07	3,667,144	65,829,472	81,250	308.43	84.11

GASOLINE - For the 12 month period ending August 2008

FY Year	Mileage	Fuel Qty.	Average MPG
2007	644,530	49,377	13
2008	584,941	46,822	12

Comments:

Natural gas consumption during FY08 decreased 1,785 mcf. This decrease is attributed to replacing the West Plant steam loop with a hot water loop system.

Construction continued on the campus requiring additional electricity for a large crane and several construction trailers not associated with EUI/square footage.

A large unsealed area was found and repaired at the Thomason Building.

Bearkat Camp began operation with outdoor lighting not associated with the campus square footage.

Several vehicles were replaced that have a lower mpg rating.

A. 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.
- Steps are being taken to move forward with Preliminary Energy Audits to be used for Energy Performance Contracting.
- Contracting with a commissioning service provider to focus on two newly constructed buildings to ensure the facilities are operating energy efficient.

B. Additional ideas for reducing energy expenditures.

- Install additional metering equipment to improve measurement and identify inefficient consumption on the campus electric distribution system.
- Use of alternate fuel and electric vehicles.
- Ensure energy efficient equipment is included in the specifications for new buildings.

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