

**State Agency Energy Savings Program
Sam Houston State University
Energy Conservation Plan Update
For the 12 Month Period Ending August 2007**

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 quarterly beginning April 1, 2006.

II. Update to State Agency Energy Savings Program

A. The extent to which the agency has met the percentage goal it established for reducing its usage of electricity, natural gas, and gasoline.

ELECTRICITY AND NATURAL GAS - For the 12 month period ending August 2007

Goal: Electricity and Natural Gas - reduce FY 2007 unit consumption per gross square foot by 2% below that of FY 2005.

FY 07 Month	Area/Sqft	Electric Kwh	Natural Gas MCF	Consumption Bill-btu	EUI/ Kbtu/sf	FY 05 Area/Sqft	EUI/ Kbtu/sf
Sept 06	3,686,273	6,006,298	1,367	21.91	5.94	2,909,693	7.03
Oct 06	3,686,273	5,673,980	2,707	22.16	6.01	2,903,154	7.22
Nov 06	3,686,273	4,928,180	6,233	23.24	6.31	2,903,154	8.01
Dec 06	3,501,287	5,147,647	11,788	29.72	8.49	3,222,832	7.74
Jan 07	3,686,273	5,396,756	13,603	32.44	8.80	3,222,832	7.49
Feb 07	3,686,273	5,202,396	17,241	35.52	9.64	3,222,832	8.36
Mar 07	3,686,273	5,233,761	9,338	27.49	7.46	3,222,706	6.91
April 07	3,686,273	5,314,764	6,773	25.12	6.81	3,237,888	5.42
May 07	3,668,309	5,114,638	4,354	21.95	5.98	3,237,888	6.20
June 07	3,668,309	5,712,682	3,240	22.84	6.23	3,247,030	5.75
July 07	3,668,309	5,737,684	2,870	22.54	6.15	3,247,030	6.61
Aug 07	3,618,401	6,360,686	1,736	23.50	6.50	3,244,935	6.71
Annual	3,667,144	65,829,472	81,250	308.43	84.11	3,244,935	80.89

GASOLINE - For the 12 month period ending August 2007

Goal: Increase fuel efficiency or MPG rating by 2% above FY2005

FY Year	Mileage	Fuel Qty.	Monthly MPG	Mileage Comp to FY05	MPG Comp to FY05
2005	683,421.00	45,768.38	14.93		
2007	644,530.00	49,377.08	13.05	-38,891.00	-1.88

Comments:

The campus has recently completed a major capital construction program. Several buildings have been brought on line and operational commissioning is still on-going.

Higher ASHRAE standards require additional resources to treat minimum outside air requirements.

Increased demand for electronic equipment such as computers, scanners, fax machines, and printers.

A natural gas leak was discovered resulting in an increased consumption of approximately 1,643 mcf.

The West Central Plant steam loop had numerous leaks. The steam loop was replaced by a central hot water system.

Gasoline MPG decline can be partially attributed to the replacement of sedans with lower mpg rated full size vehicles and SUV's, such as Expeditions and Excursions.

Fuel purchases away from the SHSU fueling facility is difficult to track and apply to the correct vehicle use.

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.

- A Campus Energy Manger has been hired and monthly energy usage is reviewed for opportunities to minimize or improve consumption.
- Campus utility billing has been establish and is distributed monthly indicating building consumption and cost.
- Initiation of an Energy Performance Contract continues to be reviewed.
- Continue to update fleet with higher MPG rated vehicles.

C. Additional ideas for reducing energy expenditures.

- Install additional metering equipment to improve measurement and identify inefficient consumption.
- Participate in utility provide sponsored energy efficiency and rebate program
- Evaluate alternate fuel and electric vehicles.

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](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

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