

Executive Summary

Pursuant to Executive Order RP 49, the Texas Commission on Environmental Quality (TCEQ) submitted its initial Energy Savings Plan in December 2005, detailing a number of measures that the agency will be implementing to reduce energy consumption. In the initial Plan, the TCEQ established a goal of reducing its energy consumption by five percent over the next five years.

This quarterly update provides the current status of the energy conservation efforts identified in the initial Plan, data summaries of total electricity and fleet fuel consumption, and the status of any additional measures implemented subsequent to the development of the initial Plan.

Electricity consumption data from the third quarter of CY 2006 shows that the TCEQ was in line with average electricity consumption for third quarter months. However, total electricity consumption for all three months was higher than the annual monthly average from 2005. As a result, the total electricity consumption through September 2006 shows an increase of approximately 3.7 percent above total average consumption. Fleet fuels consumption data for both July and August shows monthly consumption to be below baseline annual monthly averages, with total fleet fuel consumption through the month of August approximately 1.5 percent below total averages. This data demonstrates progress towards achieving the agency's goal of a five percent reduction in energy consumption from baseline levels.

TCEQ Third Quarter 2006 Energy Consumption Update

	July 2006 Consumption	Percentage of Monthly Average +/-	August 2006 Consumption	Percentage of Monthly Average +/-	Sept. 2006 Consumption	Percentage of Monthly Average +/-	2006 Total Consumption (To Date)	Total Consumption Percentage +/-
Electricity	1,286,261 kWh	+12.9%	1,315,805 kWh	+15.4%	1,364,791 kWh	+19.7%	10,650,758 kWh	+3.7%
Fleet Fuels	21,022 gallons	-11.7%	23,741 gallons	-0.2%	N/A ¹	N/A ¹	187,489 gallons ²	-1.5%

¹ Total fleet fuel consumption is not available for September 2006. Accurate fleet fuel reports for the previous month are not calculated until the 20th of each month.

² "Total Consumption (To Date)" for Fleet Fuels only includes data from January-August 2006 because data for the month of September is not yet available.

Over the next three months, the TCEQ will be implementing a number of measures aimed at helping to accomplish its energy savings goals. Through these measures, the TCEQ will work to:

- Make power strips available for the remaining conference rooms managed separately by each division;
- Continue monitoring the progress of the central plant heating, ventilating, and air conditioning (HVAC) project to ensure that energy efficiency remains a priority in the planning process;
- Explore the feasibility of lowering the temperature on the water heaters in Buildings B-E;
- Develop a strategy to increase the use of video conferencing; and
- Distribute paycheck stuffers with information on energy conservation strategies.

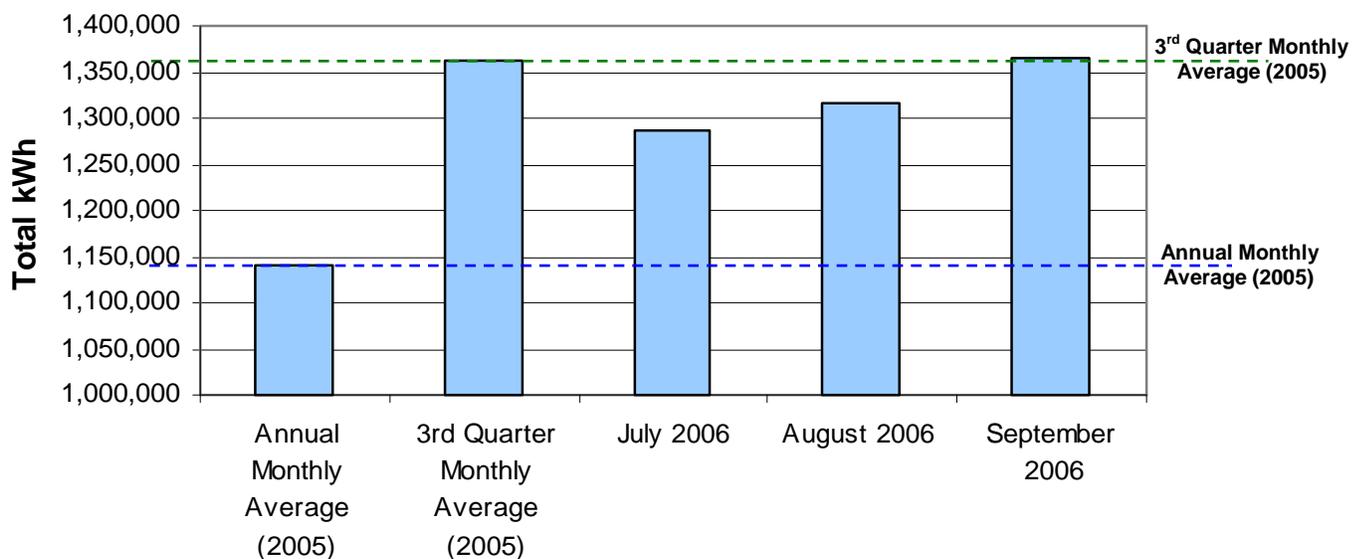
This update and other quarterly updates will be posted on the TCEQ external Web site for public review and comment, along with the original Energy Savings Plan at:

<http://www.tceq.state.tx.us/admin/support-services/tceq-energy-savings-plan.html>

TCEQ Electricity Consumption Update

Data on electricity consumption for the third quarter of 2006 is provided below.

CY 2006 Third Quarter Electricity Consumption



As the table above shows, electricity consumption for all three months in the third quarter was higher than the annual monthly average: July 2006 (1,286,261 kWh) was 12.9 percent higher, August 2006 (1,315,805 kWh) was 15.4 percent higher, and September 2006 (1,364,791 kWh) was 19.7 percent higher. At the same time, only the electricity consumption for the month of September 2006 was above the average consumption for third quarter months in 2005 (1,361,120 kWh), an increase of approximately 0.3 percent.

As was the case in previous quarters, any increased electricity consumption during third quarter months appears to be related to higher temperatures and the resulting increased air conditioning use. This trend is even more apparent when electricity consumption from individual months in 2005 and 2006 are compared with temperatures during those months. For instance, electricity consumption during both July and September 2006 was lower than for the same periods in 2005, when daily high temperatures were warmer on average. During August 2006, however, when electricity consumption was higher than it was in August 2005, high temperatures were on average warmer.

TCEQ Fleet Update

Data for total fleet fuel consumption for June 2006 was not available for the second quarter update in July. This data has been included below.

TCEQ Fleet Fuel Consumption: Second Quarter CY 2006 (in gallons)

2006	April 2006 ¹	May 2006 ¹	June 2006	2005 Annual Monthly Avg. Baseline	2005 2nd Quarter Avg. Baseline
Gas/Diesel	17,047 gallons	18,846 gallons	19,788 gallons	17,000 gallons	18,600 gallons
LPG	6,303 gallons	5,812 gallons	4,820 gallons	6,800 gallons	7,500 gallons
Total	23,350 gallons	24,658 gallons	24,608 gallons	23,800 gallons	26,100 gallons

¹ Data for total fleet fuel consumption in April and May was provided in the July quarterly update.

Data on fleet fuel consumption during the third quarter of 2006 is currently only available for the months of July and August. Fleet fuel consumption data for the month of September 2006 will be included in the fourth quarter update.

TCEQ Fleet Fuel Consumption: Third Quarter CY 2006 (in gallons)

2006	July 2006	August 2006	September 2006 ¹	2005 Annual Monthly Avg. Baseline	2005 3rd Quarter Avg. Baseline
Gas/Diesel	17,181 gallons	19,789 gallons	N/A	17,000 gallons	17,300 gallons
LPG	3,841 gallons	3,952 gallons	N/A	6,800 gallons	5,800 gallons
Total	21,022 gallons	23,741 gallons	N/A	23,800 gallons	23,100 gallons

¹ Total fleet fuel consumption is not available for September 2006. Accurate fleet fuel reports for the previous month are not calculated until the 20th of each month.

Although total fleet fuel consumption during August was slightly higher than the third quarter monthly average from 2005, total fleet fuel consumption for both July 2006 and August 2006 was below the baseline annual monthly average from 2005.

Additional TCEQ Energy Savings Efforts Third Quarter 2006

In an effort to maintain progress towards the goal of reducing energy consumption by five percent, the TCEQ continues to implement measures identified in the initial Energy Savings Plan, while also working to identify additional measures that can contribute to this goal. A summary of some of the work conducted during the third quarter is provided below.

Building A Solar Panels

In cooperation with the Texas Building and Procurement Commission (TBPC), the TCEQ assessed the operating capabilities of the Building A solar panels during the second quarter of 2006. From those inquiries, it was learned that the solar panels are not currently operational.

During the third quarter of 2006, the TCEQ received a cost estimate from the TBPC to repair or modify the solar panel water heating system. The request has been assigned a Work Order number, and is awaiting assignment.

Power Strips for Conference Room Electronics

The TCEQ has installed power strips for all electronic equipment located in centrally managed conference rooms on the Park 35 Campus. Power strips will also be made available to all other conference rooms during the fourth quarter. These power strips will allow employees to turn off electronic equipment in conference rooms, reducing the amount of energy that would otherwise be consumed with the equipment in “standby” mode.

Common Area Occupancy Sensors

The TCEQ has submitted a request to the TBPC for a cost estimate for installing occupancy sensors in all conference rooms, break rooms, and other common areas located in Buildings A-E of the Park 35 Campus. Occupancy sensors have already been installed in many of the common areas in Building A.

Park 35 Outdoor Lighting Controls

In response to a request from the TCEQ, the TBPC has changed the automatic outdoor lighting schedule for Buildings A through E to come on at 8:00 p.m. and turn off at 7:00 a.m., which mirrors the schedule for all state buildings located downtown.

In addition to the timer controls, the outdoor lights for Buildings A, B, and C have also been operating on light sensors that operate in conjunction with the Building Automation Systems (BAS). With the upgrades to the BAS files in Buildings D and E during the third quarter, light sensors have now been installed for the outdoor lighting on those buildings as well.

In Building F, which is owned and operated by a private management company, lighting in the parking garage remains on 24-hours a day for added security, while all exterior lighting remains on a set schedule, turning on at 7:45 p.m. and turning off at 7:15 a.m.

Printer Management

The TCEQ continued to network its copy machines on the Park 35 Campus to also serve as network printers. Twenty copiers have been networked to date, and an additional eight copiers will be networked soon. The agency will continue its efforts to retire any redundant network or desktop printers.

Towards that same goal, the TCEQ continues to make progress in its three-year comprehensive Printer Management Plan. This plan includes a primary objective of moving from individual desktop printers to shared network printers. Through this process, the agency will both reduce the total number of printers and retire any printers without energy-saving options. Modernization of the printer fleet will provide more reliable service, while the revised lifecycle will allow for the full integration of more energy efficient printers. Currently, an average of 45 to 60 departmental printers are retired each year, and replaced with 35 to 45 energy efficient printers.

Energy Savings Posters

The TCEQ developed energy savings posters to remind employees to conserve energy. These educational reminder messages will be distributed to employees through various methods.

TCEQ Energy Savings Goals: Fourth Quarter 2006

During the fourth quarter of 2006, the TCEQ plans to implement a number of specific measures aimed at helping to accomplish energy savings goals. The January quarterly update will include the status of these efforts along with available data on fourth quarter energy consumption.

Through these measures, the TCEQ will work to:

- Make power strips available for the remaining conference rooms managed separately by each division. Power strips have already been installed for all electronic equipment located in centrally managed conference rooms.
- Continue monitoring the progress of the central plant heating, ventilating, and air conditioning (HVAC) project to ensure that energy efficiency remains a priority in the planning process. The TBPC is planning to construct the central HVAC plant as a more efficient alternative to new units installed for individual buildings. It is estimated that central plant systems typically operate with an estimated increase in efficiency ranging from five to 15 percent.
- Explore the feasibility of lowering the temperature on the water heaters in Buildings B-E.
- Because of the food service facilities located in Building A, health guidelines require that these water heaters remain at a higher temperature.
- Expand on current efforts to increase the use of video conferencing. Although results from the Employee Awareness Survey show that staff has increased its use of teleconference capabilities, staff from the Office of Administrative Services believes fuel can be conserved further by encouraging a greater use of teleconferences as an alternative to face-to-face meetings.
- Distribute paycheck stuffers reminding employees to conserve energy.



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