

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. This quarterly update provides the current status of the energy conservation efforts identified in the initial Plan.

The TCEQ has established a goal of reducing its energy consumption by five percent over the next five years. This quarterly update includes data summaries of total electricity and fleet fuel consumption.

Data from the second quarter of 2006 shows that electricity and fleet fuel consumption levels for April and May are below annual monthly averages for energy consumption in both categories. This data demonstrates progress towards achieving the agency's goal of a five percent reduction in energy consumption from baseline levels.

TCEQ Second Quarter 2006 Energy Consumption Update

	April 2006 Consumption	Percentage of Monthly Average +/-	May 2006 Consumption	Percentage of Monthly Average +/-	June 2006 Consumption	Percentage of Monthly Average +/-	2006 Total Consumption (To Date)	Total Consumption Percentage +/-
Electricity	1,118,802 kWh	-1.9%	1,050,607 kWh	-7.8%	1,103,787 kWh	-3.2%	6,443,279 kWh	-5.8%
Fleet Fuels	23,350 gallons	-1.9%	24,658 gallons	+3.6%	N/A ¹	N/A ¹	118,118 gallons ²	-0.7%

¹ Total fleet fuel consumption is not available for June 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-May 2006 because data for the month of June is not yet available.

The next quarterly update will be submitted October 1, 2006. Over the next three months, the TCEQ will be implementing a number of measures aimed at helping to accomplish its energy savings goals. These third quarter efforts will include:

- Studying the return on investment of equipping conference rooms and break areas in Buildings A-E with occupancy sensors similar to those already in use in the conference rooms located in Building A;
- Determining the cost of equipping conference rooms that contain equipment with an easily accessible power strip that can be turned off after use;
- Continuing employee awareness efforts aimed at addressing key areas identified in the
 - TCEQ Energy Savings Survey conducted in June 2006;
- Working with the Texas Building and Procurement Commission to make the solar panels installed on the roof of Building A fully operational; and
- Modifying the timing of parking lot lights, walkway lights, and other exterior lighting.

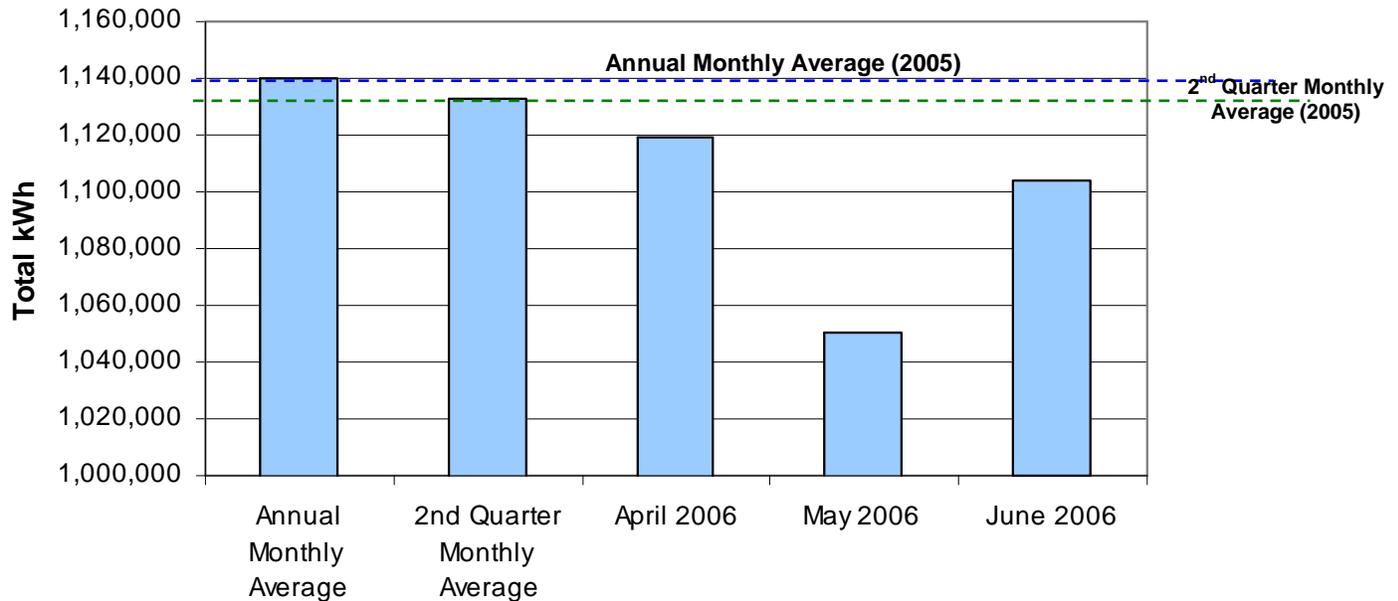
This update and other quarterly updates will be posted on the TCEQ external Web site for public review and comment, along with the original Energy Savings Plan at:

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

TCEQ Electricity Consumption Update

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

CY 2006 Second Quarter Electricity Consumption



As the graph above shows, electricity consumption for the month of April 2006 (1,118,802 kWh) was 1.8 percent below the baseline annual monthly average, and 1.3 percent lower than the monthly average for second quarter months in 2005. Electricity consumption for the month of May 2006 (1,050,607 kWh) was 7.8 percent below the baseline annual monthly average, and 7.2 percent below the monthly average for second quarter months in 2005. In June, electricity consumption (1,103,787 kWh) remained below average—3.2 percent below the annual monthly average and 2.6 percent below the monthly average for second quarter months in 2005.

TCEQ Fleet Update

Data for total fleet fuel consumption for March 2006 was not available for the first quarter update in April. Because data for total fleet fuel consumption for March 2006 was not available for the first quarter update, this data has been included below with a complete report of fleet fuel consumption during the first quarter of 2006.

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

2006	January 2006 ¹	February 2006 ¹	March 2006	2005 Annual Monthly Avg. Baseline	2005 1st Quarter Avg. Baseline
Gas/Diesel	16,461 gallons	15,174 gallons	17,867 gallons	17,000 gallons	16,300 gallons
LPG	6,886 gallons	6,714 gallons	7,007 gallons	6,800 gallons	7,500 gallons
Total	23,348 gallons	21,888 gallons	24,874 gallons	23,800 gallons	23,800 gallons

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

Data on fleet fuel consumption during the second quarter of 2006 is currently only available for the months of April and May. While this update includes the available monthly information, future quarterly updates will provide information for the entire second quarter.

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

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

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

Total fleet fuel consumption for both April and May are below the annual monthly average for second quarter months from 2005. However, total fleet fuel consumption during May was slightly higher than the annual monthly average from 2005.

Additional TCEQ Energy Savings Efforts Second Quarter 2006

TCEQ Energy Savings Survey

During the second quarter of 2006, the TCEQ conducted a survey of its employees to measure current levels of awareness regarding energy conservation strategies and measures in the workplace. A total of 701 responses were received, representing approximately 23 percent of the agency's employees statewide. Approximately 72 percent of the responses were from the Park 35 offices in Austin, with 28 percent from regional offices.

The results of the survey show several important areas where additional information regarding strategies could be useful.

For example, while approximately 79 percent of those responding reported that they "Always" turn off their computer, only 58 percent reported turning off their monitor "Always," with 28 percent reporting that they "Never" turn off their monitor. While many monitors will go into sleep mode after the computer workstation is shut down, the monitor will continue to use small amounts of electricity if it is not turned off separately. To help encourage employees to turn off the monitors in their workspace, the TCEQ will be providing "reminder" stickers for employees to place on their monitors next to the power button. A sample of what this sticker will look like is included in Appendix A.

While it is encouraging that 94 percent of those responding reported that they at least sometimes turn off the lights in common areas such as conference rooms and break areas, only 55 percent responded that they "Always" turn off common area lights. Along those same lines, only 47 percent of those responding reported that they "Always" unplug conference room equipment, while 31 percent report that they "Never" unplug conference room equipment.

In response to these results, the TCEQ will be incorporating several strategies aimed at reducing energy consumption from conference rooms and break areas. First, the agency will explore the feasibility of installing occupancy sensors, similar to those that have already been installed in the conference rooms of Building A, for the lights in the common areas of Buildings A-E. Second, the agency will also explore the feasibility of installing power strips in conference rooms equipped with televisions, VCRs, DVD players, or projectors. By plugging this equipment into power strips, staff can easily turn off the supply of energy that would otherwise continue to flow if the equipment were merely powered off. Signs will also be placed in each of the common areas to remind employees to turn off the lights and unplug any equipment when leaving a common area. A sample of what this sign will look like is included in Appendix A.

Even with recent improvements in energy efficiency, printers and copiers can still be significant sources of energy consumption in work areas. Only 23 percent of those responding reported turning off the copy machine in their work area either "Always" or "Sometimes," with 72 percent reporting that they "Never" turn off the copy machine. While most newly installed

copiers and printers will automatically go into sleep mode after short periods of inactivity, even in sleep mode this equipment will continue to consume electricity. In addition to efforts aimed at reducing the number of individual desktop printers, the TCEQ will also be working to reduce energy consumption from printers and copiers that remain in service. To encourage employees to turn off printers and copiers at the end of the day, the TCEQ will be placing stickers near the power switch to point out the power button. A sample of what this sticker will look like is included in Appendix A.

Finally, 51 percent of employees responding to this survey reported that they were not aware of the agency idling policy. In many cases, employees pointed out the fact that their position did not require any travel in agency vehicles as the reason they were unaware of this policy. Because efforts to make employees aware of this policy have focused on reminders inside the vehicle, it is likely that any employees not driving an agency vehicle within the last six months would be unaware of this policy. To help promote a greater awareness of this policy among agency employees, additional efforts will be made to make employees aware of the idling policy. First, additional notices will be provided to employees along with the materials provided when a vehicle is checked out. To ensure that all employees are aware of the agency's idling policy, it will also be included in the training on agency policies that all employees are required to complete. An example of the insert that will be included in the materials provided to employees when using an agency vehicle is included in Appendix A.

Building A Solar Panels

During the second quarter of 2006, the TCEQ requested assistance from the TBPC in assessing the operating capabilities of the solar panels installed on the roof of Building A at the Park 35 Campus. From these initial inquiries, the agency has learned that the TBPC believes that the solar panels are not currently operational.

The TCEQ is currently working with the TBPC to make the solar panels operational.

Printer Management

The TCEQ is implementing a plan aimed at networking many of its copy machines on the Park 35 Campus to serve a dual purpose as a network printer. As these copy machines are networked, the agency will work to ensure that any redundant network or desktop printers are retired.

In the meantime, the TCEQ is working to educate employees of the importance of turning off network and desktop printers, as well as copy machines at the end of each day.

Park 35 Outdoor Lighting Controls

In response to a request from the Office of Administrative Services, the TBPC has changed the outdoor lighting schedule for Buildings A through E to come on at 8:00 p.m. and turn off at 7:00 a.m. This schedule mirrors the schedule that all state building located downtown are on.

Buildings A, B, and C are currently on light sensors that operate in conjunction with the Building Automation Systems (BAS). The light sensors for Buildings D and E were removed because it corrupted the BAS files for those buildings, affecting the heating, ventilation, and air conditioning (HVAC) systems. The TCEQ will work with the TBPC to install light sensors for Buildings D and E when upgrades are made to the BAS.

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.

TCEQ Energy Savings Goals: Third Quarter 2006

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

These third quarter efforts will include:

- Exploring the feasibility of equipping conference rooms and break areas in Buildings A-E with occupancy sensors similar to those already in use in conference rooms located in Building A.
- Exploring the feasibility of equipping conference rooms that contain equipment such as televisions, VCRs, DVD players, and projectors with an easily accessible power strip that will allow employees to cut off electricity to equipment when it is not in use.
- Creating employee awareness resources aimed at addressing key areas identified in the results of the TCEQ Energy Savings Survey. These resources will include:
 - a pdf “Pre-Departure Checklist” that will be made available to TCEQ employees on the internal T-Net;
 - “POWER OFF” stickers for printers, copiers, and monitors; and
 - signs to be placed in conference rooms and other common areas reminding them
 - to turn off lights and unplug equipment when they are leaving a conference room.
- Working with the TBPC to make the solar panels installed on the roof fully operational.
- Modifying the timing of parking lot lights, walkway lights, and other exterior lighting.



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Appendix A

TCEQ Employee Awareness Resources

- Employee Workspace “Pre-Departure” Checklist
- Conference Room Reminder Sign
- Samples of Employee Resources
- Printer and Copier “POWER OFF” Stickers
- Paycheck Stuffers
- Agency Idling Policy Insert



Pre-Departure CHECKLIST

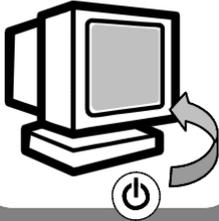


Prior to departing your workspace each day, please be sure to complete the following pre-departure steps to help ensure an energy efficient end to your day.



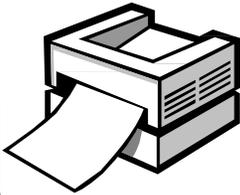
Step 1: Shut Down computer

When leaving the office, "Shut Down" your computer workstation. Make sure your computer powers off after shutting down.



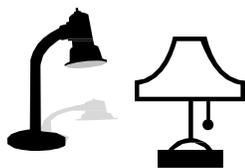
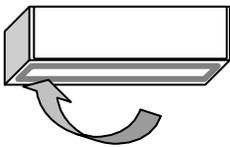
Step 2: Turn off monitor

After shutting down your computer, turn off your monitor by pressing the power button. Even after your monitor goes blank when shutting down, it will continue using energy.



Step 3: Turn off desktop printers

While shutting down your computer, be sure to turn off any desktop printers in your workspace as well.



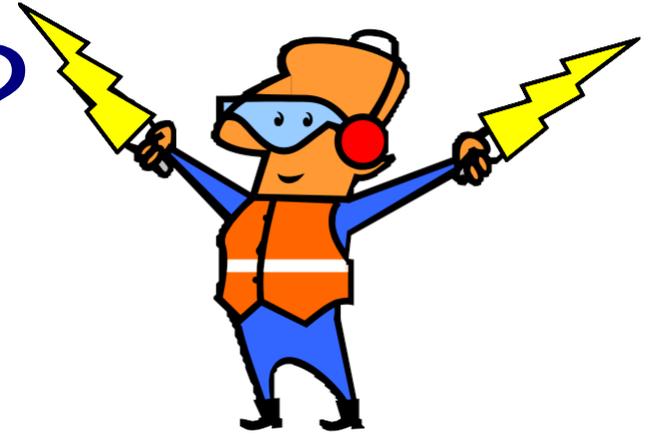
Step 4: Turn off desk lights

Prior to leaving your workspace, make sure all desk lights are turned off. This not only includes any desk lamps, but also any under-cabinet lights.

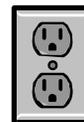
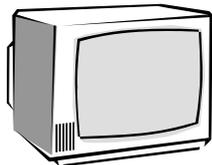
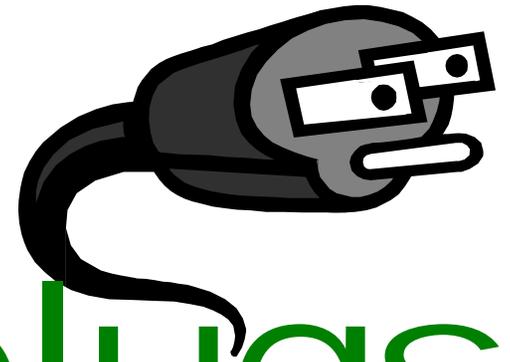
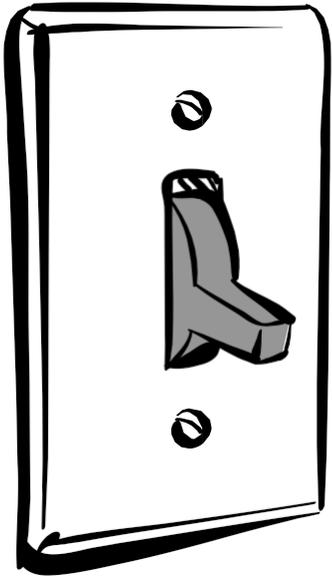
Step 5: Turn off appliances

Turn off any radios, heaters, fans, and other appliances before leaving your workspace. Even small appliances can be big consumers of energy if left running overnight.

On your way out?

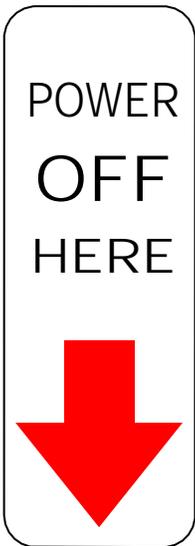


Turn out the lights and pull the plugs



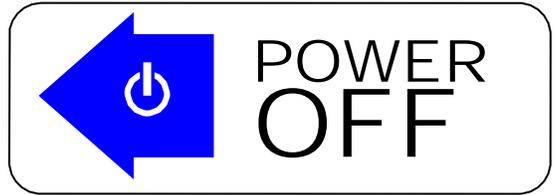
When leaving the conference room, be sure to cut off power to any televisions, VCRs, DVD players, projectors, and electronic dry erase boards.

This can be done by turning off the power strip or unplugging any equipment plugged directly into the wall.



DRAFT Stickers for copiers and printers to point out power switches.

DRAFT Stickers for computer monitors to remind employees to turn off their monitors each day.



DRAFT paycheck stuffer to remind employees to turn off their monitors each day when leaving the work, and to turn off the lights and unplug any equipment in common areas.

After shutting down your computer, turn off your monitor by pressing the power button. Even after your monitor goes blank when shutting down, it will continue using energy overnight.

Turn off the lights and pull the plugs

If you are the last person leaving a conference room or break area, be sure to turn off the lights and unplug any televisions, VCRs, DVD players, projectors, or other equipment.

REMINDER



LIMIT IDLING TO
3 MINUTES

Official agency policy prohibits unnecessary idling for more than three minutes in all gasoline and diesel-powered agency vehicles.

TCEQ O.P.P. 03.09

