

# Texas Department of Public Safety



## Energy and Water Management Plan

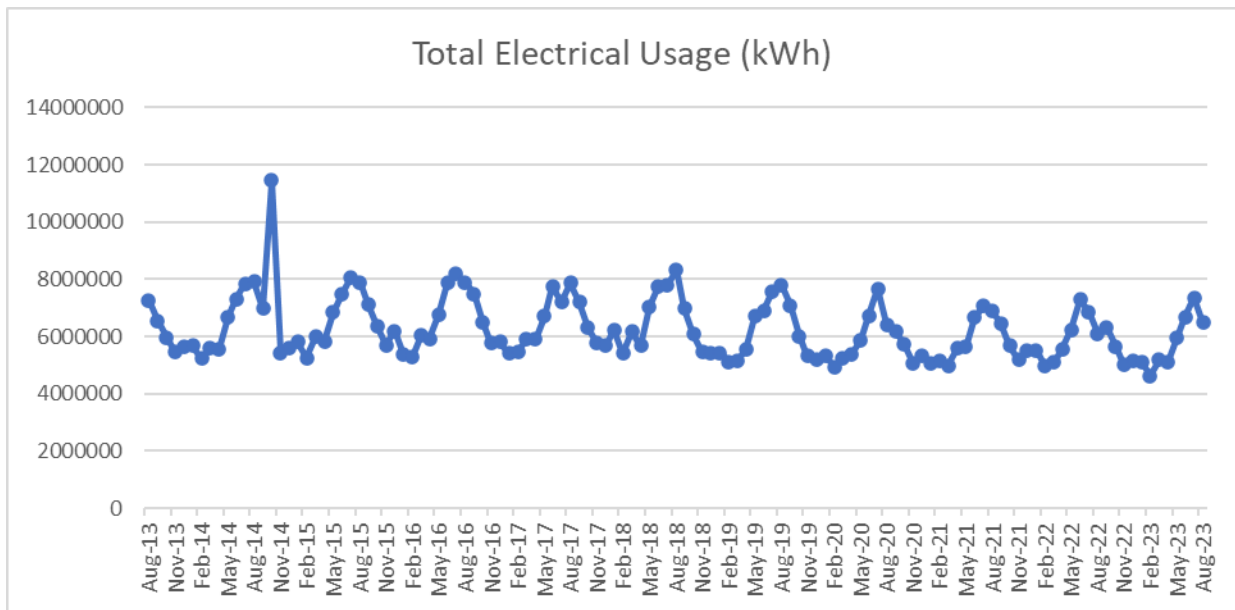
**FY 2024**

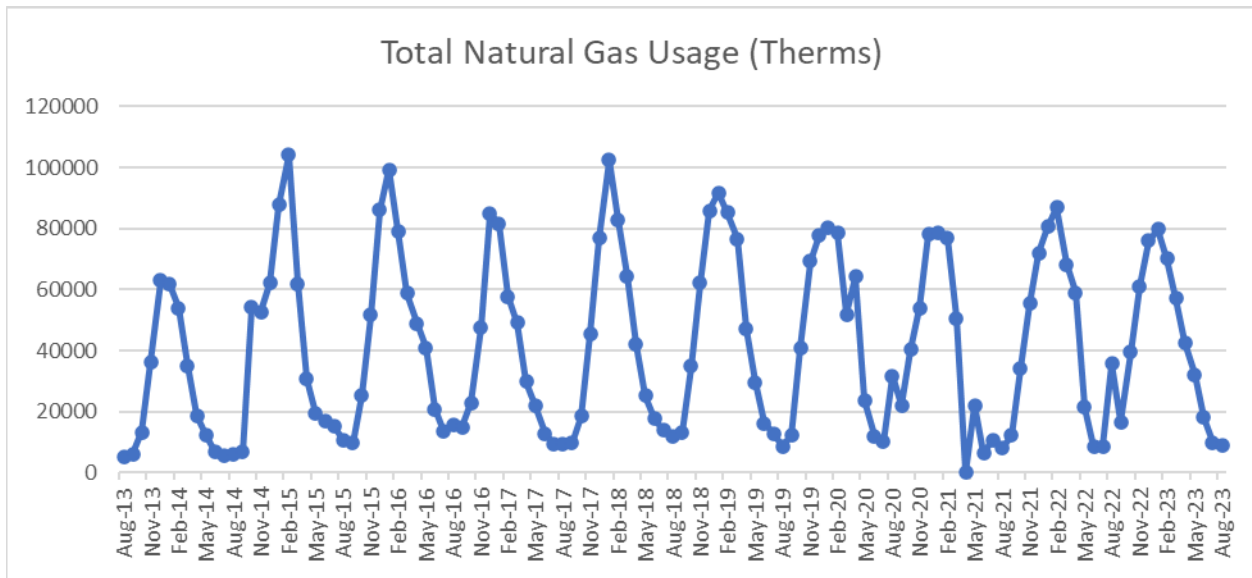
## Progress Report

During this past fiscal period, the Department has retrofitted many areas with new lighting fixtures that utilize 70% less energy. Additional renovation continues at TXDPS and the Department is switching out many shower heads and toilets with a 40% reduced flow rate. TXDPS has also converted to DDC (Direct Digital Controls) / BAS (Building Automated Systems) in many buildings; this allows for a greater control and maintenance of energy usage throughout. Another tool TXDPS uses is Engie Platform services to monitor utility cost. Using the Engie Platform service helps DPS identify utilities that have a sudden spike in usage. TXDPS continues to offer a telecommute option for some employees, which aid in lowering energy consumption.

## Energy Usage

TXDPS provides its yearly energy usage to the State Energy Conservation Office (SECO). The data is collected from the Engie Impact data base. For this report, the graph is divided quarterly to comply with RP-49. The data will be updated again when the next Energy and Water Management Plan is due to SECO.





## Goals

The energy conservation goals of the Department are aligned with Senate Bill 898, passed in 2011 by the 82nd Texas Legislative Session. This bill calls for a reduction of electrical consumption by 5% per annum for 10 years beginning September 1, 2011. As the Department continues to grow to service the expanding needs of the citizenry of Texas, a ratio of occupied space (total square footage) relative to energy consumption, is the metric by which conservation measures must be judged. Regarding natural gas, and water, a reduction goal of 2% has been established, also utilizing ratios as the method for measurement.

## Strategy for Achieving Goals

### Electricity

During building renovations, TXDPS will transition from fluorescent bulbs to LED lighting wherever possible. This reduces the amount of electricity used by the fixture itself, in addition to reducing the heat load on the HVAC system. TXDPS has secured a new electricity contract beginning 2024, and the effectiveness will be evaluated over the next calendar year.

Occupancy sensors and dimmer switches are also being installed where feasible, to mitigate energy waste in unoccupied areas.

Other prospective conservation measures being considered include:

- Solar film on windows
- Reflective roof coatings

- During roof replacements, insulation upgrades to IECC standards
- Use of increased R-value insulation
- Replace failed HVAC systems with higher efficiency systems.
- Transition to on-site renewable energy sources (solar, wind, geothermal)

## **Water**

TXDPS will continue to replace existing hardware with more efficient, low flow devices when opportunities are presented (e.g., sink, faucet, and toilet replacements).

TXDPS is implementing xeriscaping on all new designing and layouts.

## ***Implementation Schedule***

The Department of Public Safety makes an effort to implement energy conservation measures whenever possible. As renovations occur in agency buildings, the Department of Public Safety will take opportunities to install energy conservation devices whenever feasible and when resources allow.

## ***Finance Strategy***

The Department will continue to request funding from the Legislature for energy conservation endeavors. Additionally, the Department will seek out opportunities to obtain grants / rebates (for the installation of conservation devices) from energy providers and municipalities.

## ***Gasoline***

There are two distinct components to gasoline usage by fleet vehicles: Commission (Law Enforcement) and Non-Commission (Administrative). As the use of Commission vehicles is necessary for the proper protection of the State and execution of officers' duties, the primary conservation measures for gasoline consumption to date have been focused on the Administrative section of the Agency. Unnecessary travel has been eliminated. Attempts have been made to consolidate trips and carpool whenever feasible.

## ***Employee Awareness Plan***

The Texas Department of Public Safety's General Manual clearly outlines conservation measures in its *Chapter 16: Building Use and Energy Conservation*. Additionally, ideas, policies, and new protocols are sometimes disseminated through agency-wide e-mail distribution.

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