Energy and Water Management Plan

# Section 1: Instructions

[Texas Government Code §447.009](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fstatutes.capitol.texas.gov%2FDocs%2FGV%2Fhtm%2FGV.447.htm%23447.009&data=02%7C01%7CLeslie.Lawson%40cpa.texas.gov%7Cee27587cca6044d7c67908d83fcedcad%7C2055feba299d4d0daa5a73b8b42fef08%7C0%7C0%7C637329504981354537&sdata=4SkqCnFCxVmR2IIhZlrkCsnMNA%2BijGIurmXGwGwMiIQ%3D&reserved=0) requires each state agency and institution of higher education to set and report percentage goals for reducing its usage of water, electricity, transportation fuel~~,~~ and natural gas. Per [34 Tex. Admin. Code §19.14 (2016)](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Ftexreg.sos.state.tx.us%2Fpublic%2Freadtac%2524ext.TacPage%3Fsl%3DR%26app%3D9%26p_dir%3D%26p_rloc%3D%26p_tloc%3D%26p_ploc%3D%26pg%3D1%26p_tac%3D%26ti%3D34%26pt%3D1%26ch%3D19%26rl%3D14&data=02%7C01%7CLeslie.Lawson%40cpa.texas.gov%7Cee27587cca6044d7c67908d83fcedcad%7C2055feba299d4d0daa5a73b8b42fef08%7C0%7C0%7C637329504981364491&sdata=Fdk47GU4UuyNh9BsyXJXiD%2F%2FyTGLHf2Hrhw%2B6ntcLWE%3D&reserved=0), these goals must be included in a comprehensive energy and water management plan (EWMP) submitted every fiscal year to the State Energy Conservation Office (SECO) by **Oct. 31**. This requirement is intended to streamline and standardize the energy reporting requirements of state agencies and institutions of higher education.

Please complete Section 2: Agency Information and Section 3: Providing Agency or Section 4: Tenant Agency, as applicable, for **Fiscal Year 2020**. Save this form as “EWMP-Agency-FY2020.docx” and return this form by email to seco.reporting@cpa.texas.gov no later than **Oct. 31**.

Please visit the [SECO’s Energy and Reporting website](https://comptroller.texas.gov/programs/seco/reporting/agency.php) for more information. For questions about reporting, please contact seco.reporting@cpa.texas.gov or call 844-519-5676.

# Section 2: Agency Information

*Please provide the name and number (if applicable) of the agency that is submitting an Energy and Water Management Plan.*

Agency Name: Texas Facilities Commission

Agency Number: 303

*Please provide the contact information for the person(s) responsible for implementation of the recommendations in the plan and the contact information for the person(s) responsible for reporting and submitting the plan, if different.*

## ***Implementation Contact***

Name: Farshad Shahsavary

Title: Energy and Engineering Manager

Email: farshad.shahsavary@tfc.state.tx.us

Phone: 512-463-7366

## ***Reporting/Submission Contact***

Name: Farshad Shahsavary

Title: Energy and Engineering Manager

Email: farshad.shahsavary@tfc.state.tx.us

Phone: 512-463-7366

# Section 3: Providing Agency

Does your agency occupy or manage a state-owned building and pay the utilities?

 [x] Yes [ ] No

If NO, please skip to [**Section 4: Tenant Agency**](#Section4).

If YES, please complete the following:

Have you submitted, or will you be submitting by October 31, FY 2020, energy and water usage data for your agency and properties using the [ENERGY STAR Portfolio Manager](https://portfoliomanager.energystar.gov/pm/login.html) tool?

 [x] Yes [ ] No

## ***Progress Report***

*The Progress Report section must outline the progress of activities related to the implementation of projects from the previous Energy and Water Management Plan (if applicable), including continuation of or new preliminary energy audits, a summary of the results, utility efficiency and cost* savings. Agencies should periodically conduct preliminary energy audits to identify new utility savings opportunities.

In the last 7 years TFC has lowered its utility costs by around 18% per year ($1,754,364 to $14,543,514) through various energy and retrofit projects and renegotiating utility purchases. Also, during the same period, TFC’s electricity usage has dropped from 189,000,000 KWH to 158,000,000 KWH per year or drop of almost 17% per year. Additionally, TFC’s water usage has dropped from 209,000,000 Gallons to 184,000,000 Gallons per year (drop of 12%) during the past 7 years.

## ***Goals***

*The Goals section must summarize the future goals for utility conservation. Pursuant to* [*Texas Government Code §447.009*](http://www.statutes.legis.state.tx.us/Docs/GV/htm/GV.447.htm)*, each state agency and institution of higher education shall set percentage goals for reducing the agency's or institution's use of water, electricity, transportation fuels and natural gas. The percentage goal should state a target year and reference the target goal relative to a benchmark year.*

We are currently having the goal of reducing our utility usage by another 8 to 10 percent during the next four years using Energy Performance Contract projects and strategy. This goal includes changing all TFCs current lighting systems to LED technology and replacing all the existing water fixtures to low flow fixtures in the next four years.

|  |  |  |  |
| --- | --- | --- | --- |
| **Utility** | **Target Year** | **Benchmark Year** | **Percentage Goal** |
| Water | FY2024 | FY2020 | 2% per year reduction |
| Electricity | FY2024 | FY2020\*  | 2% per year reduction |
| Transportation Fuels | FY2024 | FY2020 | 2% per year reduction |
| Natural Gas | FY2024 | FY2020 | 2% per year reduction |

\*[Texas Government Code Section 388.005(c)](https://statutes.capitol.texas.gov/Docs/HS/htm/HS.388.htm) and (f). Entities who began energy conservation tracking prior to September 1, 2007 or in attainment areas, may substitute their own electricity benchmark year.

## ***Strategy for Achieving Goals***

*The Strategy section must describe how the agency or institution plans to prioritize and implement cost effective utility efficiency measures in order to meet the established utility conservation goals.*

We are implementing several energy performance contract projects to meet the stated goals. These projects touch all our facilities. We expect to meet or exceed stated goals through these projects.

## ***Implementation Schedule***

*The Implementation Schedule section must outline a proposed timeline for implementing utility cost reduction measures and a strategy for monitoring utility savings of the installed utility measures.*

On going, We have plans for four energy performance contracts to be completed by the end of FY2024.

## ***Finance Strategy***

*The Finance Strategy section must describe how the agency or institution plans to obtain funding for the recommended utility cost reduction measures. This section should show the estimated cost of all projects and the funding sources to be used.*

We are planning to finance our projects using LoanStar Loans from SECO. Our four upcoming projects will be less than $20,000,000.

Transportation Fuel Consumption (if applicable)

*If your agency maintains one or more state-owned vehicles and* ***does not*** *report fuel usage via the* [*Texas Fleet System*](https://comptroller.texas.gov/purchasing/programs/ovfm/data-entry.php)*, document the total gallons of transportation fuel used by your facility and fleet vehicles below.*

Does your agency maintain one or more state-owned vehicles? [x] Yes [ ] No

Does your agency report its fuel usage via the [*Texas Fleet System*](https://comptroller.texas.gov/purchasing/programs/ovfm/data-entry.php)? [x]  Yes [ ]  No [ ]  No Vehicles

|  |  |
| --- | --- |
| **Transportation Fuel Type** | **Amount** |
| Unleaded Gasoline\* | 33,000 Gallons |
| Diesel | 4570 Gallons  |
| Bio-Diesel | N/A |
| E85 (Flex Fuel) | N/A |
| Compressed Natural Gas (CNG) | N/A |
| Unleaded for Gas Hybrids | N/A |
| Liquified Petroleum Gas (LPG) | N/A |
| Ethanol | N/A |

\*Do not include unleaded gasoline for gasoline hybrids

## ***Employee Awareness Plan***

*The Employee Awareness Plan section must outline how the agency will make employees aware of utility cost reduction measures, both directly (affecting change in behavior) and indirectly (not designed to affect behavior).*

We try to use our property managers to work with our tenant agencies to limit their schedule and energy usage. We also send several emails to tenets and property managers during summer to curb energy usage. We would like to do more but because of budgetary concerns and lack of manpower our primary focus is central control and implementing energy reduction projects at this time.

# Section 4: Tenant Agency

## ***Progress Report***

*The Progress Report section must outline the progress of the implementation of projects from the previous Energy and Water Management Plan or Resource Efficiency Plan (if applicable), including a summary of the results of the projects in terms of utility efficiency and cost savings.*

click to enter your agency’s Progress Report

## ***Transportation Fuel Consumption (if applicable)***

*If your agency maintains one or more state-owned vehicles and* ***does not*** *report fuel usage via the* [*Texas Fleet System*](https://comptroller.texas.gov/purchasing/programs/ovfm/data-entry.php)*, document the total gallons of transportation fuel used by your facility and fleet vehicles below.*

Does your agency maintain one or more state-owned vehicles? [ ] Yes [ ] No

Does your agency report its fuel usage via the [*Texas Fleet System*](https://comptroller.texas.gov/purchasing/programs/ovfm/data-entry.php)? [ ]  Yes [ ]  No [ ]  No Vehicles

|  |  |
| --- | --- |
| **Transportation Fuel Type** | **Amount** |
| Unleaded Gasoline\* | click to enter use in kgal |
| Diesel | click to enter use in kgal |
| Bio-Diesel | click to enter use in kgal |
| E85 (Flex Fuel) | click to enter use in kgal |
| Compressed Natural Gas (CNG) | click to enter use in kgal |
| Unleaded for Gas Hybrids  | click to enter use in kgal |
| Liquified Petroleum Gas (LPG)  | click to enter use in kgal |
| Ethanol | click to enter use in kgal |

\*Do not include unleaded gasoline for gasoline hybrids

## ***Employee Awareness Plan***

*The Employee Awareness Plan section must outline how the agency will make employees aware of direct utility consumption. Plans might include employee training, signage or recognition programs.*

click to enter your agency’s Employee Awareness Plan