



# Energy and Water Management Plan

---

## *Section 1: Instructions*

[Texas Government Code §447.009](#) 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 \(2016\)](#), 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](mailto:seco.reporting@cpa.texas.gov) no later than **Oct. 31**.

Please visit the [SECO's Energy and Reporting website](#) for more information. For questions about reporting, please contact [seco.reporting@cpa.texas.gov](mailto: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 A&M Forest Service (TFS)**

Agency Number: **576**

*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: **Robby DeWitt**

Title: **Associate Agency Director**

Email: **rdewitt@tfs.tamu.edu**

Phone: **979-458-7301**

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

Name: **Melanie Karns**

Title: **Financial Accountant**

Email: **mkarns@tfs.tamu.edu**

Phone: **979-458-6682**

### Section 3: Providing Agency

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

Yes  No

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

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](#) tool?

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.*

- a. **TFS pro-actively practices energy conservation methods and standards. All new construction is well insulated in both the walls and ceiling. TFS' energy cost intensity (ECI) average based on 2020 data was \$.94 per square foot for property owned by TFS. Based on the most recent available data, the national average for office buildings is \$1.70 per square foot.**
- b. **TFS Completed the following repair and replacement projects during FY2020:**
  - **Replace shop security light with LED security light at Hudson office**
  - **Upgrade septic system at Conroe main office**
  - **Brought on line a new warehouse facility in Hudson to replace multiple old, inefficient buildings in Lufkin.**
- c. **TFS replaced 27 vehicles with new, more fuel-efficient vehicles during FY2020.**

#### Goals

*The Goals section must summarize the future goals for utility conservation. Pursuant to [Texas Government Code §447.009](#), 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.*

**TFS has a dispersed workforce across the state, with most staff located in very small offices.**

**Consumption of water and natural gas is very low and there are no opportunities to demonstrably impact their consumption in a cost-effective manner.**

**The agency has over the years implemented cost-effective strategies to reduce electricity consumption at its facilities. Given the small size of the agency-owned facilities and the low level of**

electrical consumption, there are no cost-effective opportunities to demonstrably affect electricity usage.

With regard to transportation fuels, TFS is an emergency response agency that responds to wildfires under its statutory mission and to all other hazards and emergencies (e.g. hurricanes, floods, tornados, ice storms, etc.) under the direction of the Texas Division of Emergency Management. Fuel consumption levels are highly correlated to the level of emergency response activity each year. Given the rural and remote areas where much of the emergency response activities occur, and the fact that vehicles have to be able to go off-road (mainly pickup trucks), utilization of alternative fuels and more fuel-efficient vehicle types is not operationally feasible. There are no operationally feasible options to demonstrably reduce fuel consumption.

Utility	Target Year	Benchmark Year	Percentage Goal
Water	FY2021	FY2020	Not Cost Effective
Electricity	FY2021	FY2020*	Not Cost Effective
Transportation Fuels	FY2021	FY2020	Not Operationally Feasible
Natural Gas	FY2021	FY2020	Not Cost Effective

\*Texas Government Code Section 388.005(c) 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.

**Not applicable. There are no cost effective/ operationally feasible strategies to be implemented.**

**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.

**Not applicable.**

**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.

**Not applicable.**

**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](#), 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](#)?  Yes  No  No Vehicles

Transportation Fuel Type	Amount
Unleaded Gasoline*	Texas Fleet System
Diesel	Texas Fleet System
Bio-Diesel	Texas Fleet System
E85 (Flex Fuel)	Texas Fleet System
Compressed Natural Gas (CNG)	Texas Fleet System
Unleaded for Gas Hybrids	Texas Fleet System
Liquified Petroleum Gas (LPG)	Texas Fleet System
Ethanol	Texas Fleet System

\*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).

**Not applicable.**

**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.

**TFS has a dispersed workforce across the state, with most staff located in very small offices.**

**TFS' energy cost intensity (ECI) average for leased space based on 2020 data was \$.80 per square foot for property rented by TFS. Based on the most recent available data, the national average for office buildings is \$1.70 per square foot.**

**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](#), 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](#)?  Yes  No  No Vehicles

Transportation Fuel Type	Amount
Unleaded Gasoline*	Texas Fleet System
Diesel	Texas Fleet System
Bio-Diesel	Texas Fleet System

E85 (Flex Fuel)	<b>Texas Fleet System</b>
Compressed Natural Gas (CNG)	<b>Texas Fleet System</b>
Unleaded for Gas Hybrids	<b>Texas Fleet System</b>
Liquified Petroleum Gas (LPG)	<b>Texas Fleet System</b>
Ethanol	<b>Texas Fleet System</b>

\*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.*

**Not applicable.**