



Energy and Water Management Plan

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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. According to [34 Tex. Admin. Code §19.14 \(2016\)](#), these goals must be included in a comprehensive energy and water management plan (EWMP) submitted by **Oct. 31** of every fiscal year to the State Energy Conservation Office (SECO). 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 **the previous fiscal year**. Save this form as “EWMP-Agency Number-Agency Acronym-FY20##.docx” (e.g., EWMP-104-LBB-FY2021.docx), and return this form by email to seco.reporting@cpa.texas.gov no later than **Oct. 31**.

Please do not embed images, charts or graphics in your responses; however, you may provide hyperlinks to them.

Please visit [SECO’s Energy and Reporting website](#) 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 A&M Forest Service

Agency Number: 576

Other agencies included in this summary: click to enter

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

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Title: Associate Agency Director

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Reporting/Submission Contact

Name: Melanie Karns

Title: Financial Accountant

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Section 3: Providing Agency

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

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

If YES, please complete the following:

Have you submitted, or will you be submitting by Oct. 31, 2021, energy and water usage data for your agency and properties using the [ENERGY STAR Portfolio Manager](#) tool? Yes - EnergyStar data submitted

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. **Texas A&M Forest Service pro-actively practices energy conservation methods and standards. All new construction is well insulated in both the walls and ceiling. Texas A&M Forest Service's energy cost intensity (ECI) average based on 2021 data was \$1.34 per square foot for property owned by the agency. Based on the most recent available data, the national average for office buildings is \$1.70 per square foot.**
- b. **Texas A&M Forest Service completed the following repair and replacement projects during FY2021:**
 - Energy efficient windows for Hudson shop
 - Updated lighting for Hudson shop
 - New energy efficient doors for Livingston office
 - Spray foam insulation in Palestine shop
- c. **Texas A&M Forest Service replaced 4 vehicles with new, more fuel-efficient vehicles during FY2021. Twenty-three more vehicles were ordered in FY 2021, but not received yet due to COVID-19 shortages.**

Goals

The Goals Section must summarize the future goals for utility conservation. In accordance with [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 usage 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.

Texas A&M Forest Service 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, Texas A&M Forest Service 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	FY 2022	FY 2021	Not Cost Effective
Electricity	FY 2022	FY 2020*	Not Cost Effective
Transportation fuels	FY 2022	FY 2021	Not Operationally Feasible
Natural gas	FY 2022	FY 2021	Not Cost Effective

*Texas Health and Safety Code Section 388.005(c) and (f). Entities that began energy conservation tracking prior to Sept. 1, 2007, or in attainment areas, may substitute their own electricity benchmark years.

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

Does your agency maintain one or more state-owned vehicles? Yes - Has fleet

Does your agency report its fuel usage via the [Texas Fleet System](#)? Yes - Report to fleet system

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.

Texas A&M Forest Service has a dispersed workforce across the state, with most staff located in very small offices.

Texas A&M Forest Service’s energy cost intensity (ECI) average for leased space based on 2021 data was \$.92 per square foot for property rented by Texas A&M Forest Service. Based on the most recent available data, the national average for office buildings is \$1.70 per square foot.

Transportation Fuel Consumption (if applicable)

Does your agency maintain one or more state-owned vehicles? Yes - Has fleet

Does your agency report its fuel usage via the [Texas Fleet System](#)? Yes - Reports to fleet system

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.