



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: University of North Texas Health Science Center

Agency Number: 0763

Other agencies included in this summary: N/A

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: Randall Christopher

Title: Energy Manager

Email: Randall.christopher@unthsc.edu

Phone: 817-735-2181

Reporting/Submission Contact

Name: Randall Christopher

Title: Energy Manager

Email: Randall.christopher@unthsc.edu

Phone: 817-735-2181

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.

HSC Facilities/Utilities, and Schneider Electric, completed an Energy Savings Performance Contract (ESPC) to support cooling demand, and energy conservation for current and future campus programs and infrastructure. The \$10 million Energy Savings Performance Contract (ESPC) with Schneider Electric provides \$424,912 in annual avoided costs to UNTHSC over the course of the 20-year contract. This is the third project phase between Schneider Electric and UNTHSC focused on the future growth of the university, avoiding major costs, and increasing operational savings, all while improving campus aesthetics. The Phase I&II projects have had a utility savings of \$11,657,980 since August 2010.

It was the goal of UNTHSC to reduce kBtu/sqft 20 % by 2020 with a baseline year of 2009. UNTHSC is currently 26.2 % below the baseline of 2009. FY20 is a bit skewed because of the pandemic and campus closure but HSC was at 26.78% reduction in FY23.

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.

[Click to enter your agency's Goals content.](#)

Utility	Target Year	Benchmark Year	Percentage Goal
Water	FY25	FY19	1%
Electricity	FY25	FY19*	1%
Transportation fuels	FY25	FY19	1%
Natural gas	FY25	FY19	1%

*[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.

Part of the ESCO was a \$2M System Controls Upgrade, New EMS software has been installed, the Controls Technicians, and the Building Operators have been trained. This new software brings in 3 different Schneider Electric legacy systems into one HMI for better control and efficiency.

RES BLDG: 5 existing laboratory exhaust fans will be replaced with 2 high-efficiency fans.

CBH BLDG: 4 existing, and end-of-life cycle cooling towers will be replaced with 3 new high-efficiency cooling towers.

CBH BLDG: 4 Hot Water Boilers will have their burners replaced with new high-efficiency burners with a ROI of 3 years.

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.

The Phase III ESCO with Schneider Electric was completed in September of 2023. Part of that contract was to install an East Campus Chill Water Loop. The Loop is installed and functioning as designed. HSC will monitor and maintain the Loop for maximum efficiency. Campus-wide LED light fixtures were installed. Part of the ESCO was a \$2M System Controls Upgrade, New EMS software has been installed, the Controls Technicians, and the Building Operators have been trained. This new software brings in 3 different Schneider Electric legacy systems into one HMI for better control and efficiency. The other projects will be completed by FY24

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.

All projects will be completed with Higher Education Funds.

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).

Seth Willmoth Vice President of Facilities Services, has taken an active role in making the university faculty and staff aware of utility conservation efforts. Campus-wide notices have been sent out reminding personnel to turn off lights when leaving conference rooms, offices, labs classrooms, etc. as well as turning off computers when they are not in use. Occupancy sensors have been placed in all offices, all applicable conference rooms, and public restrooms and corridors. Notices have been sent out instructing faculty and staff not to prop open exterior doors.

The UNTHSC Office of Sustainability has introduced a new program called Lab Efficiency Action Program or LEAP. It is a new incentive program encouraging labs to be more sustainable through efficiency, conservation, safety, and collaboration. LEAP is a voluntary program where laboratories earn points for operating in ways that accomplish the goals of the program. Labs are provided with a checklist of credits from 6 different categories such as energy efficiency and waste reduction. Once the points are tallied labs get certified in one of four levels. Based on the earned certification, the lab will be awarded between a \$500 to \$3000 grant.

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)

Does your agency maintain one or more state-owned vehicles? [Choose an item.](#)

Does your agency report its fuel usage via the [Texas Fleet System](#)? [Choose an item.](#)

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.](#)
