Creating Energy-Wise Water Conservation Policies

North Central Texas Council of Governments

June 18, 2024



North Central Texas Council of Governments

Welcome & Housekeeping

- Please keep all microphones on mute until the Q&A portion of the event
- We will have an open Q&A at the end of each presentation
- The workshop slides and audio recording will be posted on the Conserve North Texas website under News/Events -> Event Archive at the link below. Follow-up emails to come. <u>http://conservenorthtexas.org/event-archive</u>



Workshop Sponsor



NCTCOG receives funding through SECO to work on energy management and efficiency projects within the region. As part of this work, we have provided workshops, webinars, and technical assistance on a variety of energy management, energy efficiency, water efficiency, and renewable energy topics.

www.nctcog.org/envir/natural-resources/energy-efficiency

https://www.conservenorthtexas.org/



Who We Are

How do we support energy management efforts for entities across the state?



• Regional planning agency serving North Texas

local governments.

Regional Energy Manager project identifies

energy management needs, increases awareness

to the local government energy reporting

requirements, and provides resources to assist





 SECO partners with local governments, public K-12 schools, public institutions
 of higher education and state agencies, across Texas to reduce utility costs and maximize energy efficiencies.

Today's Speakers

1. Matt Jensen

- Aquafficiency Program Manager, Cascade Energy

2. Steve Cavanaugh, P.E.

- Chief Innovation Officer, Cavanaugh and Associates, P.A.



Speaker Introduction

Matt Jensen, Cascade Energy





aquafficiency®

Municipal Water and Energy Savings NCTCOG Webinar June 18, 2024

Matt Jensen

Aquafficiency Program Manager Cascade Energy

What can cities do to help their residents conserve water?



What can cities do to help themselves conserve water and energy?



- As much as 40% of operating costs for drinking water systems can be for energy.
- EPA estimates that 2% of energy use in the US is for drinking water and wastewater systems.
- For a typical US city, their single largest power bill is for their wastewater treatment plant.

Image courtesy of Dr. Rob Sowby; Hansen, Allen & Luce

Unaccounted for Water

Unaccounted for water is water produced by the water system, but not delivered to consumers. Reasons for losses include:

- Fire department uses, testing hydrants or fighting fires
- Routine line flushing
- Bulk water sales, including construction
- Unmetered municipal uses (i.e., parks and city landscaping irrigation)
- Leaks



Unaccounted for Water

NCTCOG Municipal Water-Loss-Percent Frequency



Best – 2.5% Worst – 43.5% NCTCOG – 11.6%

Statewide – 15.4%

Water Loss is Energy Loss!

Texas Water Development Board (TWDB) can help!!

Impact of Pressure on Water Leaks



High-Pressure Leak



Low-Pressure Leak

Tim Waldron, "Success Techniques in Applying Water Loss Strategies for Financial Benefits," Workshop on Water and Energy/Water Loss (International Water Association, 2014)

Logan City Water System

 Population of 49,000 Utah State University 10,182 metered connections 190 miles of mainline 1 spring and 4 deep wells



Problems Facing Logan City

- Deteriorating infrastructure
- Many mainline breaks: over 300 per year
- High pressures: over 220 psi regularly
- Water shortage in summer
- High pumping costs
 - Reactionary, rather than proactive, operations





Project Results



Additional Benefits

- Less water wasted = LESS \$\$ wasted
- Citizen complaints dropped better service and pressures
- Preventive maintenance occurring
- Crews attitudes improved
- Safer working environment lower pressures
- Eliminated the need for a \$3 million transmission project
- Postponed construction of new water source

Source Selection

How many water sources do you have?

How much energy does it take to produce one MG from each of them?

How are you currently prioritizing your water sourcing? Why?



Jordan Valley Water Conservancy District

Until the team examined the data, they had assumed that the newest or most conveniently located wells were the most efficient.

> Guideline: When conditions permit, use the lowest-cost water source first.

Largely responsible for 19% energy reduction over 2 years!



SAWS Example

Water Sources	Energy Intensity (kWh/MG)	Overall \$/MG (energy and purchase cost)
Edwards	1,791	\$ 143
ASR Plant	2,887	\$ 231
Regional Carrizo	3,113	\$ 1,811
Timberwood (Trinity)	3,638	\$ 291
Oliver Ranch (Trinity/Massah)	4,177	\$ 2,285
TX Water Supply (Trinity)	4,893	\$ 3,814
Vista Ridge	7,492	\$ 6,245
Desalination	9,323	\$ 746
Canyon Regional Water Authority (CRWA)	N/A	\$ 4,982
Western Canyon/GBRA	N/A	\$ 2,783

Energy Strategy Master Plan SAWS 2023

A Few Examples From the Field

- Losing head in Yakima, Washington
- Looping in North Salt Lake, Utah

Nob Hill Water Associates, WA

Coupled with leak reduction, saved 9.6%





NSL: Problem



NSL: Solution

"Two guys and a truck for one afternoon."



aquafficiency®

Questions?

Matt Jensen Aquafficiency Program Manager Cascade Energy <u>matt.jensen@cascadeenergy.com</u> 801-550-0778

Steve Cavanaugh, P.E., Cavanaugh and Associates, P.A



Speaker Introduction





Leakage Emissions Initiative www.leigroup.org

Improving our air by preserving our water

Bringing New Energy to Energy Reduction: The Leakage Emissions Initiative and the New Funding Sources through the Leakage-Carbon Nexus

June 18, 2024

Steve Cavanaugh, P.E. steve.cavanaugh@cavanaughsolutions.com





Relevant Roles:

Chair, AWWA Water Loss Outreach Subcommittee Member, North American Water Loss Conference Committee Chair, Leakage Emissions Initiative, IWA Water Loss Specialists Group President/CEO, Cavanaugh



About 126 billion cubic meters of water is lost every year



Source: S&P Global Ratings.

Events

Sustainability Insights Research: Lost Water: Challenges And Opportunities

In this research, S&P Global Ratings looks at water infrastructure challenges through the lens of non-revenue water (NRW), meaning water that a utility sources and treats but for which it receives no financial compensation. NRW, or lost water, deters investment in water infrastructure assets. Reducing it can have many benefits, including increasing universal access to safe water, mitigating water stress, reducing the impacts of freshwater withdrawals on ecosystems, and mitigating global greenhouse gas emissions. Investment decisions made today could significantly affect future NRW rates. Yet, in many cases--particularly emerging markets--access to private-sector funding is limited and regulatory incentives are insufficient.



Leakage Emissions Initiative

Following Water Loss 2022 in Prague, The IWA WLSG proposed an initiative that seeks to quantify the impact unchecked leakage has concerning avoidable carbon emissions.

The goal was to update the water balance to include an accounting on the carbon emissions for each balance component with a specific initial focus on Leakage.

Leakage Emissions Initiative

Improving our air by preserving our water



Home	Meet The Team	Resources	Meeting Recaps	Case Studies

As a result of Water Loss 2022 in Prague, the IWA WLSG proposed an initiative that seeks to quantify the impact that unmanaged leakage has concerning avoidable carbon emissions. Through this initiative we will be linking unchecked leakage to carbon emissions, in an effort to educate those outside the industry on the ecological importance of managing non-revenue water.



Leakage Emissions Initiative: Establishing a Standard Carbon **Balance for Drinking Water Utilities**

Version 4.3

April 21, 2023

Keywords: Carbon Emissions, Carbon Intensity, Energy Intensity, Real Loss, Physical Loss, Leakage, Standard Water Balance, Standard Carbon Balance

Introduction

Importance of Reducing Carbon Emissions and how it relates to Real Loss

Interest in carbon reduction to combat climate change has been growing rapidly since the mid 2000's. In 2015, the Paris Accords were established to influence a societal change to a carbon neutral future. The Paris Accords specifically seek to limit the mean rise in global temperatures to below 2 degrees Celsius above pre-industrial levels, among other stated measures intended to benefit humanity in combatting climate change. These Accords are responsible for numerous policies and legislation enacted by the European Union and 193 other signatory member states to align financial incentives with a greener future. The financial incentives aim to inspire breakthroughs in technology for production of greener energy and/or direct reduction of carbon emitting practices. Reduction of carbon-emitting practices that accompany the production of useful items and services is as critical to carbon neutrality as production of greener and more sustainable energy.

Real Loss (leakage) is generally defined by the International Water Association (IWA) as leakage resulting from failed distribution system infrastructure. Unmanaged leakage is a problem that is already being addressed by various global entities. However, the carbon impact of that leakage has not been definitively established. Every unit of water distributed by a utility, results in the production of a certain amount of greenhouse gas emissions (carbon cost) due to the energy expended in the extraction, treatment, pumping and distribution of that unit of water. These emissions are known as Scope 2 emissions, which are indirect emissions an entity is responsible for as a result of purchasing carbon intensive electricity used in an entity's operations¹. Every unit of water lost to leakage results in carbon emissions that would otherwise be avoided if such leakage were reduced. In general, it is not economically viable for a utility to eliminate 100% of its leakage. However, utilities can, and should, strive to achieve the technical minimum that is possible. Excessive leakage provides no benefit for the utility or its customers and therefore, carbon emitted in the process is unnecessary. It can also be reasoned that for those utilities with renewable energy sources, excessive leakage represents a waste that could be otherwise used to further offset carbon-emitting energy sources.

The intent of the Leakage Emissions Initiative (LEI) is to incentivize utilities to aggressively identify and reduce leakage, generating carbon credits which can then be sold to organizations seeking to achieve carbon neutrality. This begins with utilities adopting the Standard IWA/AWWA Water Balance (Standard Water Balance) and the newly added Carbon Balance methodology. A new revenue stream from

Acknowledgements

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-Stuart Hamilton IWA WLSG Chair

-Steve Cavanaugh Leakage **Emissions Initiative Chair**

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Leakage Emissions

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JUNE 9, 2023 Climate Change Society Water Supply

IWA Water Loss Specialist Group White Paper: Leakage Emissions Initiative



Q Search

The Water Loss Specialist Group (WLSG) is a group of the International Water Association that promotes best practice in the management of water loss and non-revenue water across the world.



How "Dirty" is the Energy Source?



Grams CO₂/kWh



How much <u>Energy</u> does the Utility use to deliver its <u>annual water production</u>?



kWh/M³ (kWh/Mgal)



Generates Utility Specific Carbon Intensity



Grams CO_2/M^3 (Grams $CO_2/Mgal$)



AWWA Free Water Audit Software FWAS v6.0										
Water Bal	ance	American V Water Audit Report for: "Traditional" Water/Energy Source Copyright © 20								
AN A	Audit Year: 2021 Jan 01 2021 - Dec 31 2021									
		D	ata Validity Tier:	Tier IV (71-90)						
		Water Exported (WE) (corrected for known errors) 719.673		Billed Water Exported						
Volumo from Our			Authorized	Billed Authorized Consumption	Billed Metered Consumption (BMAC) (water exported is removed) 37,147.825	Revenue Water				
Sources (VOS)			Consumption	37,147.825	Billed Unmetered Consumption (BUAC)	37,147.825				
errors)			37,295.862	Unbilled Authorized Consumption	Unbilled Metered Consumption (UMAC) 55.167	Non-Revenue Water (NRW)				
46,119.270				148.037	Unbilled Unmetered Consumption (UUAC)					
	System Input Volume	Water Supplied			92.870 Systematic Data Handling Errors (SDHE)	8,616.198				
	46,483.696	45,764.023		Apparent Losses 2,004.136	92.870 Customer Metering Inaccuracies (CMI)					
			Water Losses		Unauthorized Consumption (UC)					
Water Imported (WI) (corrected for known errors)			8,468.161	Poal Lossos	Leakage on Transmission and/or Distribution Mains					
364.426				6,464.025	Leakage and Overflows at Utility's Storage Tanks					
					Not broken down Leakage on Service Connections Not broken down					

www.awwa.org



Water Balance *Real Loss Reported Leakage* Through Repairs *Background Leakage* -

6,464 Mgal 500 Mgal - <u>2,219 Mgal</u>

Estimate of *Unreported Real Loss*

3,745 Mgal (Recoverable)



2,219

3,745



www.awwa.org

Water Balance Real Loss Reported Leakage Through Repairs Background Leakage 6,464 Mgal 500 Mgal 2,219 Mgal

3,745 Mgal (Recoverable)



Estimate of Unreported Real Loss



AWWA Committee Report

	Imperial Units Example		SI Units Example		Calculation Notes
Calculator: Utility Carbon Intensity				_	
Volume of Water Supplied	10,000	MG/yr	37,854	ML/yr	From Standard Water Balance
Reference Carbon Intensity	540	g/kWh	540 g/kWh		From Utility's energy source(s)
Utility Energy Usage	23,000,000	kWh/yr	23,000,000	kWh/yr	From Utility Energy Bill(s)
Utility Energy Intensity	2,300	kWh/MG	608	kWh/ML	Utility Energy Usage divided by Volume of Water Supplied
Utility Carbon Intensity	1,242,000	g/MG	328,102	g/ML	Multiply Reference Carbon Intensity by Utility Energy Intensity

Example Utility Carbon Intensity Calculation

	Imperial Units Example		SI Units Example		Calculation Notes		
Calculator: Carbon Reduction		_		_			
Utility Carbon Intensity	1,242,000	g/MG	328,102	g/ML	From Utility Carbon Intensity calculator		
Target Leakage Reduction	1,450	MG/yr	5,489	ML/yr	Manual input, based on analysis of leakage reduction potential		
Carbon Reduction	1,800,900,000	g/yr	1,800,900,000	g/yr	Multiply Target Leakage Reduction by Utility Carbon Intensity		
Carbon Reduction	1,801	mt/yr	1,801	mt/yr	Conversion to Metric Tons per year (divide grams/1,000,000)		

Example Carbon Reduction Calculation

Carbon Leakage Credits (CLCs), Maybe?



The Leakage Emissions Initiative may lead to a system where a utility can generate Carbon Leakage Credits when they reduce their Leakage Emissions by reducing their Real Loss.



CLCs may represent a measurable decrease in emissions and wasted water



CLCs may then be sold to corporations who have sustainability goals related to a reduction in GHG emissions and water conservation



The revenue generated from CLCs can bolster funding for: Fixing leaks, Pressure Management, Asset Rehabilitation

National and State Goal Compliance, Maybe? (Nationally Determined Contributions – NDCs)



https://www.c2es.org

US GHG Reduction Goals

• US Federal Government goals

- Reducing U.S. greenhouse gas emissions 50-52% below 2005 levels in 2030
- Reaching 100% carbon pollution-free electricity by 2035
- Achieving a net-zero emissions economy by 2050
- Delivering 40% of the benefits from federal investments in climate and clean energy to disadvantaged communities
- Leakage Reduction can help the state and federal government get closer to net zero emissions



- STATUTORY AND EXECUTIVE TARGETS
- STATUTORY TARGET
- EXECUTIVE TARGET

NO TARGET

RECOMMENDED TARGET



New York enacted statutory targets in 2019 to reduce GHG emissions 40% below 1990 levels by 2030 and no less than 85% below 1990 levels by 2050. The targets also aim for netzero GHG emissions by 2050.



https://www.c2es.org/document/greenhouse-gas-emissions-targets/

Carbon Insetting

- Carbon insetting Directly reducing emissions associated within an organization's supply chain
- US State and Federal Governments have their own emissions reductions goals they need to achieve (previous slide).
- By funding Non-Revenue Water projects, they can directly reduce a significant amount of carbon from domestic water supply chains.
- Every ton of carbon avoided by LEI based programs can help US State and Federal Governments inset against their total emissions

Leakage Emissions Horizon

- Methodology Endorsed by Verification Body example: Gold Standard
- Case Studies from recent and ongoing Leakage Reduction Projects
- Education to Global Financial Institutions

Considerations and Discussion

- Time horizon to "count" avoided CO2 10, 15 years?
- What about new leakage after a reduction project
- Addressing "Leakage Lagging Mindset/Misconception" (LLM) "Utilities should have already reduced their leakage"



Leakage Emissions Initiative www.leigroup.org

Improving our air by preserving our water

Bringing New Energy to Energy Reduction: The Leakage Emissions Initiative and the New Funding Sources through the Leakage-Carbon Nexus

June 18, 2024

Steve Cavanaugh, P.E. steve.cavanaugh@cavanaughsolutions.com





Relevant Roles:

Chair, AWWA Water Loss Outreach Subcommittee Member, North American Water Loss Conference Committee Chair, Leakage Emissions Initiative, IWA Water Loss Specialists Group President/CEO, Cavanaugh



Q&A Discussion





Upcoming Meetings and Events

- Regional Integration of Sustainability Efforts (RISE) Coalition
- Next meeting: July 31, 2024
- Location: Microsoft Teams
- Visit the committee page to stay updated on meetings.
- Learn more about the RISE Coalition on their program page.



Upcoming Workshops and Webinars

- Webinar: Operational Maintenance Protocols & Policies
- Date: July 25, 2024; 9:30 11:30 a.m.
- <u>Register here</u>
- Webinar: ENERGY STAR Portfolio Manager (hosted with AACOG and WCTCOG)
- **Date:** June 20, 2024; 10:00- 11:30 a.m.
- <u>Register here</u>



More information to come via newsletters and updates to the Conserve North Texas website **conservenorthtexas.org**

Upcoming Workshops and Webinars

- EPA Webinar: Renewable Energy Integration at Water and Wastewater Utilities
- Date: June 27, 2024; 1:00 2:00 p.m. CDT
- <u>Register here</u>



Energy Conservation in Transportation

U.S. Transportation accounts for:



70% of petroleum consumption



>15% of average U.S. household expenditures*

*Data points sourced from Energy Efficient Mobility Systems | Department of Energy



Electric Vehicle Fuel and Energy Efficiency

Fuel Efficiency of Conventional, Electric Vehicles, and Fuel Cell Vehicles 80
 Miles per Gasoline Gallon Equivalent

 0
 0
 0
 0
 Ω Light-Duty Pickup Truck Medium-Duty Pickup Step Van **Refuse Truck** Truck

> ■ Gasoline ■ Hydrogen ■ Electric Diesel

Clean Heavy Duty Vehicles Grant Program

on behalf of the region for

\$932M available for replacement of Class 6 & 7 vehicles with zero emission models

NCTCOG is submitting an application

Environmental Protection Agency's

Fill out this survey if interested in receiving funds from NCTCOG from this program or cleancities@nctcog.org



*Values sourced from AFLEET

Stay Informed on Upcoming Events

Upcoming NCTCOG Events

Environment & Development: <u>https://nctcog.org/envir/events</u> DFW Clean Cities: <u>www.dfwcleancities.org/events</u>

NCTCOG's Free E-Mail Lists and Committee Updates

General: <u>https://www.nctcog.org/stay-informed?ext=</u> Environment & Development: <u>https://www.nctcog.org/envir/mail</u> Transportation: <u>https://publicinput.com/hub/Subscriptions/2768</u>



NCTCOG Resources

Conserve North Texas (www.conservenorthtexas.org)

• Water-specific resources can be found in the Water for North Texas resource library (<u>https://www.conservenorthtexas.org/water-north-texas-online-library</u>)

Go Solar Texas (www.gosolartexas.org)

Energy Management, Efficiency, and Renewable Energy

www.nctcog.org/envir/natural-resources/energy-efficiency



NCTCOG Resources

PACE (Property Assessed Clean Energy) Adoption in North Texas StoryMap

• Showcases PACE adoptions and PACE-financed projects in the NCTCOG region, and the steps to get started accessing PACE resources.

• https://storymaps.arcgis.com/stories/94afd48f8f05491bb55991aec608b3d7



SECO Resources

No-cost resources offered by SECO to aid entities in achieving their energy management or efficiency goals



LoanSTAR

- 2.5% (1.5% for ARRA funds)
- Simple payback of 15 years or less
- Applications are now open



WattWatchers of Texas

• Behavioral program for schools and families

State Energy

Conservation Office

• TEKS aligned STEM material

• Prel

Technical Assistance

- Preliminary Energy Assessment (PEAs)
- Analysis of current systems, O&M programs
- Energy Management Policy development
- Funding options
- Prioritized project planning



Local Government Energy Reporting

 Technical assistance for Statemandated energy efficiency and reporting



Preliminary Energy Assessments (PEAs)

Preliminary Energy Assessments (PEAs) are provided by the <u>State Energy</u> Conservation Office (SECO) and offer cost effective resource efficiency measures entities can implement to decrease energy consumption at **no cost to you!**



- Help guide the development of an energy management policy
- Provides facility benchmarking using **ENERGY STAR Portfolio Manager**
- Recommended maintenance \cap procedures



Develop efficiency level guidelines for Ο equipment purchases

Preliminary Energy Assessment Service Request Form Form# 50-852			SECO State Energy Conservation Office
Public Entity Name Contact Person		Telephone Title	
Email Address		County	
Street Address Mailing Address	City City	State	ZIP Code

Preliminary Energy Assessment Service Eligibility

The State Energy Conservation Office (SECO) provides free preliminary energy assessments (PEAs) for existing public facilities and infrastructure. Eligible entities include municipal and county governments, public school districts, county hospitals, port authorities, major airports, public water authorities and municipally owned utilities. Leased or rented facilities and infrastructure are not eligible for this service.

Principles of Agreement

By submitting this request form, the entity listed above must agree to:

- · select a contact person to work with SECO and its designated contractor to establish an energy policy and set realistic energy efficiency goals;
- allow SECO's designated contractor to provide walk-through assessments of selected facilities;
- · schedule a time for SECO's designated contractor to make a presentation on the assessment findings to key decision-makers;
- · consider implementing the PEA's energy savings recommendations; and
- · allow SECO to post portions of this report on its website

Additional Questions	
Has this organization used SECO's technical assistance or PEA services in the past?	Ves No
Is the primary contact for this PEA familiar with SECO's LoanSTAR revolving loan program?	🔘 Yes 🔘 No
Has this organization used SECO's LoanSTAR revolving loan program in the past?	Ves No
Signature	
This agreement must be signed by your organization's chief executive officer or other signing authority	rity.
Signature	Date
Print Name	Title
Submit completed forms to SECO at Margaret.Garcia@cpa.texas.gov	
or by mail to: State Energy Conservation Office	
Attn: Margaret Garcia	
111 E. 17th Street	
Austin, TX 78711-1440	
	5

SECO No-Cost Technical

Assistance

SECO contracts with engineering firms to provide customized, on-site, energy-related services ranging from basic consultation feasibility studies.

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Eligible entities may request assistance either energy or water-related technic matters.

After a scope review, SECO assigns ar engineer to contact the entity officials determine the level of service necessa provide assistance.

North Central Texas Council of Government

elated	Mailina Address				State		7IP Code
: . .	Description of Technical Assistance Needs			ay a	21010		2.7 0000
ion to							
	Technical Assistance Eligibility						
	The State Energy Conservation Office (SECO) provides free t include municipal and county governments, public school distr municipally owned utilities. Leased or rented facilities and infi	echnic: ricts, co rastruct	al a oun tun	ssistance for existing put ty hospitals, port authori e are not eligible for this	lic facili ties, majo service.	ties and infrastr or airports, pub	ructure. Eligible entitie lic water authorities and
	Principles of Agreement						
ce with	By submitting this request form, the entity listed above must a • select a contact person to work with SECO and its designergy efficiency goals;	gree to gnated	cor	ntractor to establish an er	ergy poli	icy and set reali	stic
	 allow SECO's designated contractor to provide walk-thr 	ough a	isse	ssments of selected facili	ties;		
Cal	 schedule a time for SECO's designated contractor to ma allow SECO to post portions of this report on its webs 	ake a pr ite	rest	entation on the assessmen	it finding	s to key decisio	m-makers; and
	Additional Questions						
	Has this organization used SECO's technical assistance or PE.	A servi	ices	in the past?	0	Yes 🔘 No	
	Is the primary contact familiar with SECO's LoanSTAR revol	ving lo	an	program?		Yes 🔘 No	
	Has this organization used SECO's LoanSTAR revolving loan	progra	am	in the past?	\bigcirc	Yes 🕖 No	
	Signature This agreement must be signed by your organization's chief ex	ecutive	e of	ficer or other signing aut	hority.		
n							
	Signature				Date		
10	Print Name				Title		
5 to	Submit completed forms to SECO at Margaret.Garcia@cpa.tex	kas.gov	v				
	or by mail to: State Energy Conservation Office Attn: Margaret Garcia						
arv to	111 E. 17th Street						
							50-855 (10-19/2

Technical Assistance

Public Entity Nam

Contact Pers

Email Addres

Street Addres

Service Request Form

This agreement must be signed by your organization's chief executive officer or other signing aut	hority.	
Signature	Date	
Print Name	Title	
Submit completed forms to SECO at Margaret.Garcia@cpa.texas.gov		
or by mail to: State Energy Conservation Office		
Attn: Margaret Garcia		
111 E. 17th Street		
Austin, TX 78711-1440		
		50-855 (10-19

For more information, visit SECO's Technical Assistance webpage.

SECC

Telephone



Texas LoanSTAR Revolving Loan

Finances Projects that Reduce Energy/Water/Utility Costs

• Simple Payback Period of **15 Years or Less**



 2.5% Loan Interest Rate; 1.5% if you choose ARRA Funds with more reporting requirements

Open Enrollment Through August 30, 2024

- Maximum \$6 Million Loan Per Application
- Maximum 1 Loan per Applicant



For more information visit the Notice of Loan Fund Availability



https://www.youtube.com/watch?v=4IFuj_5ZeGI



Closing Reminders

- Please complete the Workshop Evaluation: <u>https://www.surveymonkey.com/r/3HP8Q32</u>
- Please complete the in-kind match form: <u>https://www.surveymonkey.com/r/G8SP92W</u>



SECO and SPEER Contacts

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North Central Texas Council of Governments

Energy@nctcog.org

Quick Links

https://www.conservenorthtexas.org/

www.nctcog.org/envir/natural-resources/energy-efficiency

