Local Government Energy Reporting Workshop

NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

JANUARY 10, 2024

North Central Texas
Council of Governments

Welcome & Housekeeping

1. Please sign in using the sign-in sheet at the front. Separately, we will send around a form attesting whether your time can be used for in-kind match.

2. 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. http://conservenorthtexas.org/event-archive

3. Additional information and resources are included in the printed materials on the table by the door. Please take a copy!

Agenda

12:00 PM – 12:15 PM Welcome and Housekeeping Items

12:15 PM – 1:00 PM   Lunch and Networking

1:00 PM – 1:30 PM   NCTCOG Programs and Events

           Joaquin Escalante – Planner, NCTCOG

        SECO Overview

           Adam Mueller – Program Specialist, SECO

1:30 PM – 2:25 PM   Annual Local Government Energy Reporting

           Shaun Marie Auckland – M.S.I.S., LEED Green Associate,
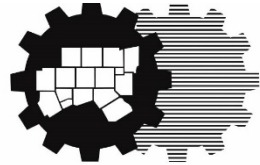
           Local Government Program Manager, SPEER

2:25 PM – 2:30 PM   Closing Remarks

           Joaquin Escalante – Planner, NCTCOG

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Who We Are

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

NCTCOG is a regional planning agency serving North Texas local governments on a variety of topics. NCTCOG's Regional Energy Manager project is an ongoing effort to identify energy management needs, increase awareness to the local government energy reporting requirements, and provide resources to assist local governments in energy conservation efforts.

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.

SPEER's Local Governments Program support city energy management by facilitating sharing of best practices in energy efficiency, while strengthening relationships among local governments through the City Efficiency Leadership Council (CELC).

SolSmart

SolSmart is a national designation and technical assistance program that helps local governments make it faster, easier, and more affordable for residents and businesses to go solar
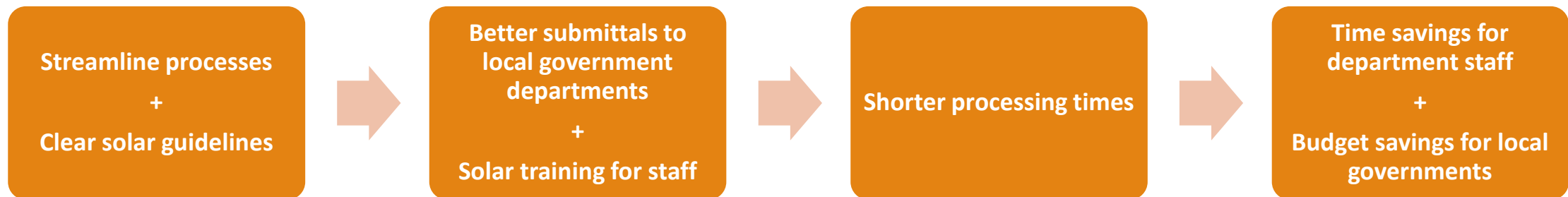
Increase transparency
- Post a solar permitting checklist online
- Develop a solar landing page

Increase understanding
- Train staff on solar best practices
- Support a solar information session or solar tour

Reduce barriers
- Decrease permit turnaround time
- Codify explicit regulations for the different forms and uses of solar PV

Streamline processes + Clear solar guidelines	→	Better submittals to local government departments + Solar training for staff	→	Shorter processing times	→	Time savings for department staff + Budget savings for local governments

For more information, visit GoSolarTexas webpage.

Dallas-Fort Worth Clean Cities Annual Fleet Report and Survey

The Department of Energy's Annual Fleet Survey tracks the progress of DFWCC's goal to increase petroleum and greenhouse gas reductions, with fleets participating in the survey eligible for various recognition awards.

Award levels range from Bronze to Gold, and special awards for significant progress and meeting self-imposed goals. The 2023 Annual Survey will be available online January 2024.

Annual Survey → **DOE Annual Fleet Report** → **Fleet Recognition Awards**

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Dallas-Fort Worth
Air Quality Improvement Plan (AQIP)

Regional plan to improve air quality in North Texas

Funded by the Environmental Protection Agency's (EPA) Climate Pollution Reduction Grants (CPRG)

Seeking feedback on measures which:
- Can be implemented in 2025
- Benefit disadvantaged communities
- Are cost-effective
- Provide greenhouse gas and criteria pollutant reduction

Go to www.publicinput.com/DFWAQIP for more information, attend a meeting, or respond to a survey.

Upcoming Workshops and Webinars

Operational Maintenance Protocols & Policies
Webinar
TDB, March 2024

Influencing Leadership on Sustainability
Workshop
TBD, late April/early May

Creating a Water Conservation Policy
Webinar
June 22, 2024

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

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Stay Informed on Upcoming Events

Upcoming NCTCOG Events

Environment & Development: https://nctcog.org/envir/events

DFW Clean Cities: www.dfwcleancities.org/events

NCTCOG's Free E-Mail Lists and Committee Updates

https://www.nctcog.org/stay-informed?ext=

https://www.nctcog.org/envir/mail

https://publicinput.com/hub/Subscriptions/2768

NCTCOG Resources

Conserve North Texas (https://www.conservenorthtexas.org/**)**

Recently Added Resources:

- Climate Mapping for Resilience and Adaptation Portal

Go Solar Texas (https://www.gosolartexas.org/**)**

Energy Management, Efficiency, and Renewable Energy

(https://www.nctcog.org/envir/natural-resources/energy-efficiency**)**

Fall 2023 Energy Funding Newsletter

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 webinars and technical assistance on a variety of energy management, energy efficiency, and renewable energy topics.

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

https://www.conservenorthtexas.org/

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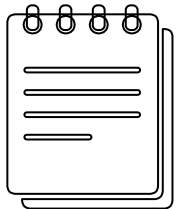
Technical Assistance
- Preliminary Energy Assessment (PEAs)
- Analysis of current systems, O&M programs
- Energy Management Policy development
- Funding options
- Prioritized project planning

Local Government Energy Reporting
- Technical assistance for State-mandated energy efficiency and reporting

Preliminary Energy Assessments (PEAs)

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

o Help guide the development of an energy management policy
o Provides facility benchmarking using ENERGY STAR Portfolio Manager
o Recommended maintenance procedures
o Develop efficiency level guidelines for equipment purchases

SECO No-Cost Technical Assistance

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

Eligible entities may request assistance with either **energy** or **water**-related technical matters.

Upon determination that the requested services are reasonable and within the contractors' scope of work, SECO will assign an engineer to contact the entity officials to determine the level of service necessary to provide assistance.

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

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

Annual Local Government Energy Reporting

SHAUN AUCKLAND - M.S.I.S., LEED GREEN ASSOCIATE,

LOCAL GOVERNMENT PROGRAM MANAGER, SPEER

Reporting Made Easy: Essential Resources for Submitting a Report

Reporting Template for collecting data and submitting the report- download at this link

SPEER has developed a **Frequently Asked Questions guide for** download **and a** website to support political subdivisions with their 2021 reporting, and we are available to answer questions or provide technical support to any reporting entities

State Energy Conservation Office's energy dashboard

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# Why Does Local Government Energy Reporting Exist?

Local Government Energy Reporting

Section 388.005 Texas Health and Safety Code:

Purpose: Aid efforts to attain federal air quality standards by reducing demand for **electricity generation**

Who Reports: Political subdivisions, institutes of higher education or state agencies in **41 "affected counties" in Texas.*** Political subdivisions include cities, counties, water districts, and other local government entities.

Requirements: Establish a **goal of reducing electric consumption by at least 5% each state fiscal year for 7 years** beginning September 1, 2019, **and submit an annual report** to SECO regarding the progress and efforts to meet the reduction goal

70% of TX Population
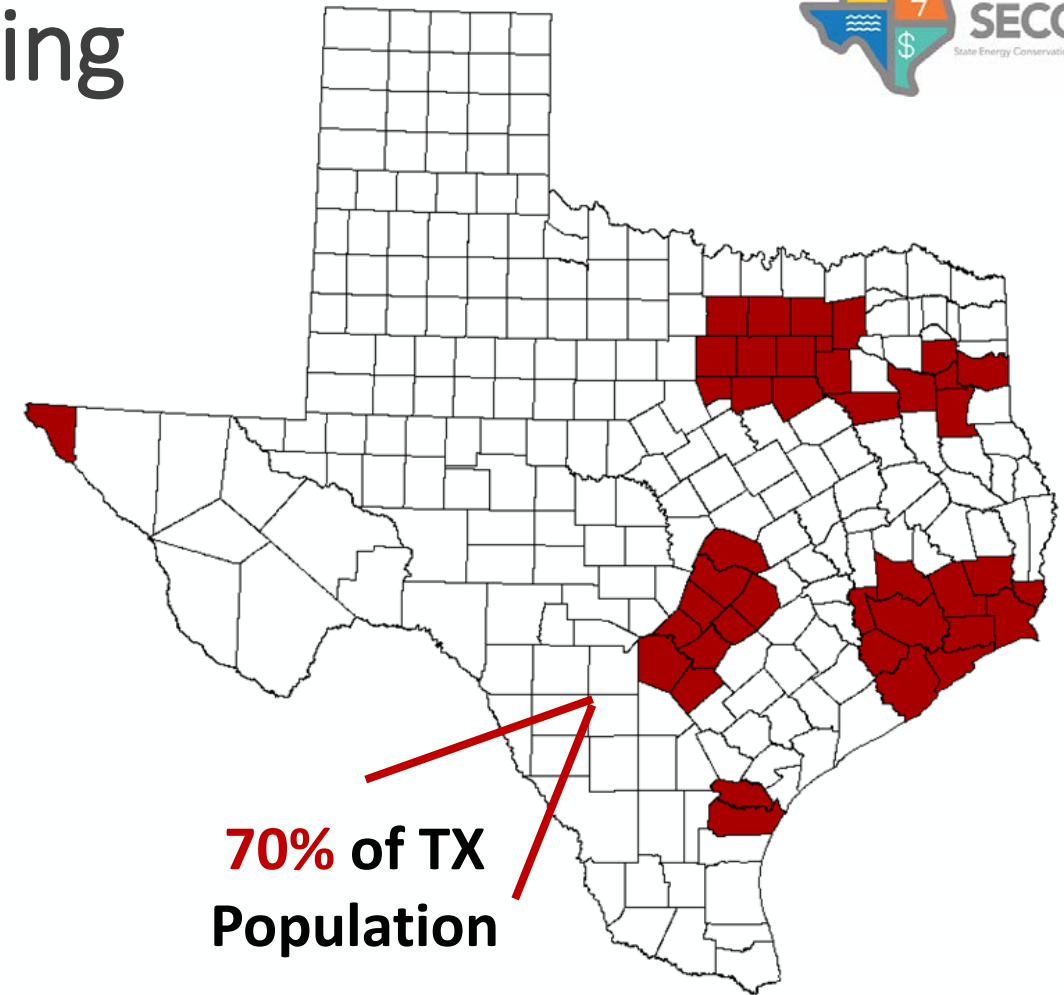
*Bastrop, Bexar, Brazoria, Caldwell, Chambers, Collin, Comal, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Gregg, Guadalupe, Hardin, Harris, Harrison, Hays, Henderson, Hood, Hunt, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Nueces, Orange, Parker, Rockwall, Rusk, San Patricio, Smith, Tarrant, Travis, Upshur, Waller, Williamson, Wilson, and Wise (Texas Administrative Code, Title 30, §114.629)

History and Background

2001

This requirement, introduced in the 77th Legislative Session by Senate Bill 5 (SB5), was established to reduce air emissions associated with electricity consumption in ozone nonattainment or near nonattainment counties

2007

The 80th Legislature passed SB12, extended for entities to establish a goal to reduce electric consumption by 5% out to 2011

2011

In the 82nd Legislature, the passage of SB898 signified the continuance of establishing an energy reduction goal out to 2021. Allowed for exemption certification requests

2019

SB241 passed in the 86th Legislature set 2019 as the baseline year for establishing a 5% reduction goal and extended the timeline for local governments to establish a goal to reduce electric consumption out to **2026**

For full history, visit SECO's "**History of Legislation for Public Sector Energy Reporting**" webpage.

Impacts for State Air Quality

Local Government Energy Reporting Forms Submitted to SECO

Data Processed and Reported to the Texas A&M Energy Systems Laboratory (ESL)
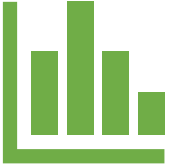
ESL Estimates Total NO$_X$ Reductions and Submits to Texas Commission on Environmental Quality (TCEQ)

TCEQ Includes in the Texas Emissions Reduction Plan (TERP) Biennial Report to the Texas Legislature

1.58
Tons per day NO$_X$ Reduced in 2019

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Impacts for Local Governments

Effectively Manage Energy Consumption Informed by Data Collection

Ability to Measure Performance Among Peer Entities Using SECO's "Energy Consumption Reporting Dashboard"

Identify Opportunities for Energy Efficiency Projects

Pursue No-Cost Technical Assistance and Resources Through SECO to Accomplish Energy Efficiency Projects

SECO
State Energy Conservation Office

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Effectively Manage Energy Consumption Informed by Data Collection

Ability to Measure Performance Among Peer Entities Using SECO's "Energy Consumption Reporting Dashboard"

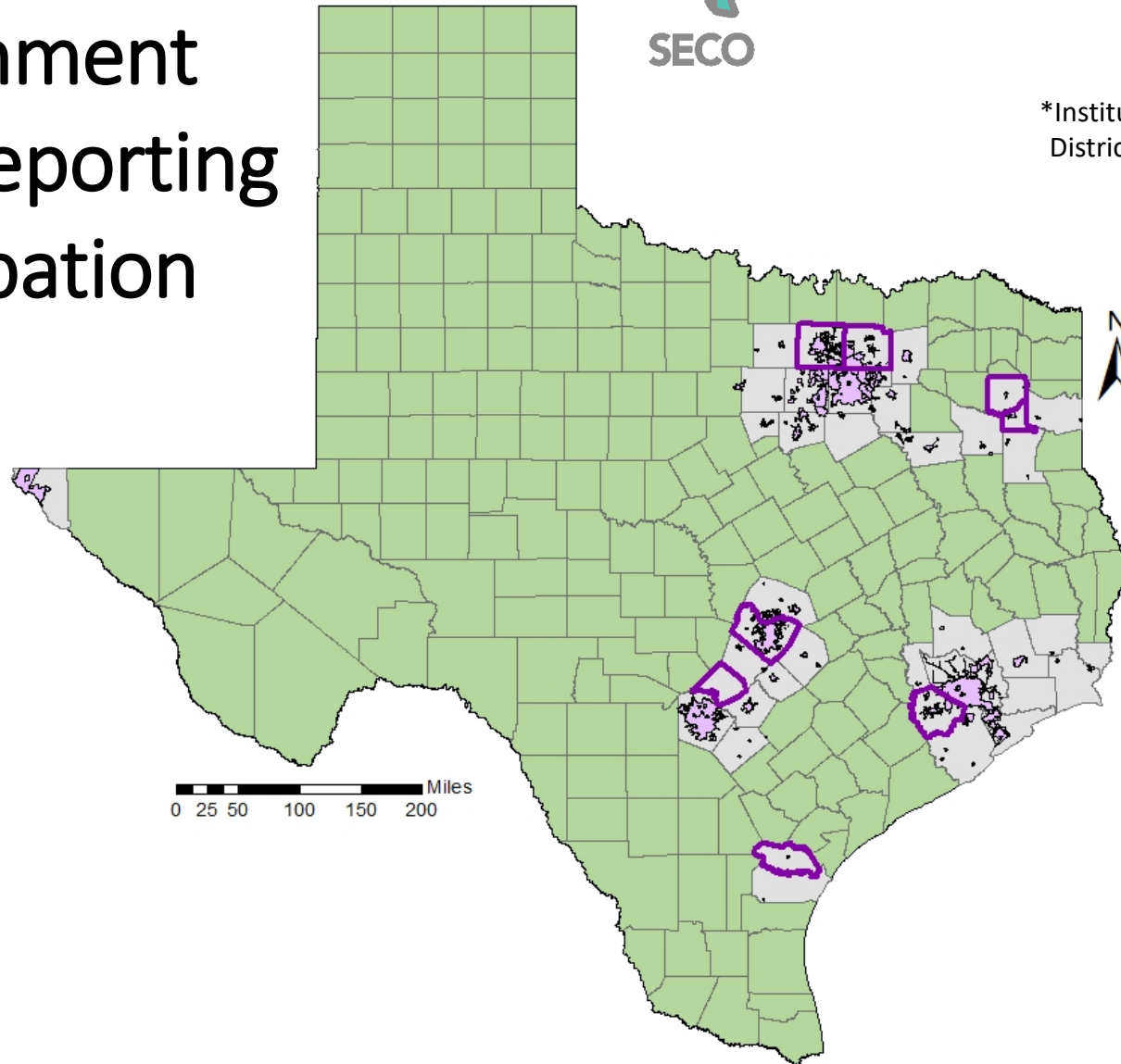**Identify Opportunities for Energy Efficiency Projects**

Pursue No-Cost Technical Assistance and Resources Through SECO to Accomplish Energy Efficiency Projects

# 2022 Local Government Energy Reporting Participation

*Institutes of Higher Education, Special Districts, Appraisal Districts, and State Agencies who reported are not shown

Number of Cities
Who Reported: **142**

Number of Counties
Who Reported: **48**

Legend

- 2020 Reported Counties in Texas
- 2020 Reported Cities in Texas
- Counties Subject to Report (Affected Counties)

Local Government Energy Reporting Statistics

Number of <u>Texas Entities</u> Who Submitted a Local Government Energy Report

NCTCOG & SPEER Began Outreach and Technical Assistance

Year	Value
2012	32
2013	91
2014	75
2015	44
2016	80
2017	39
2018	48
2019	179
2020	286
2021	189
2022	263
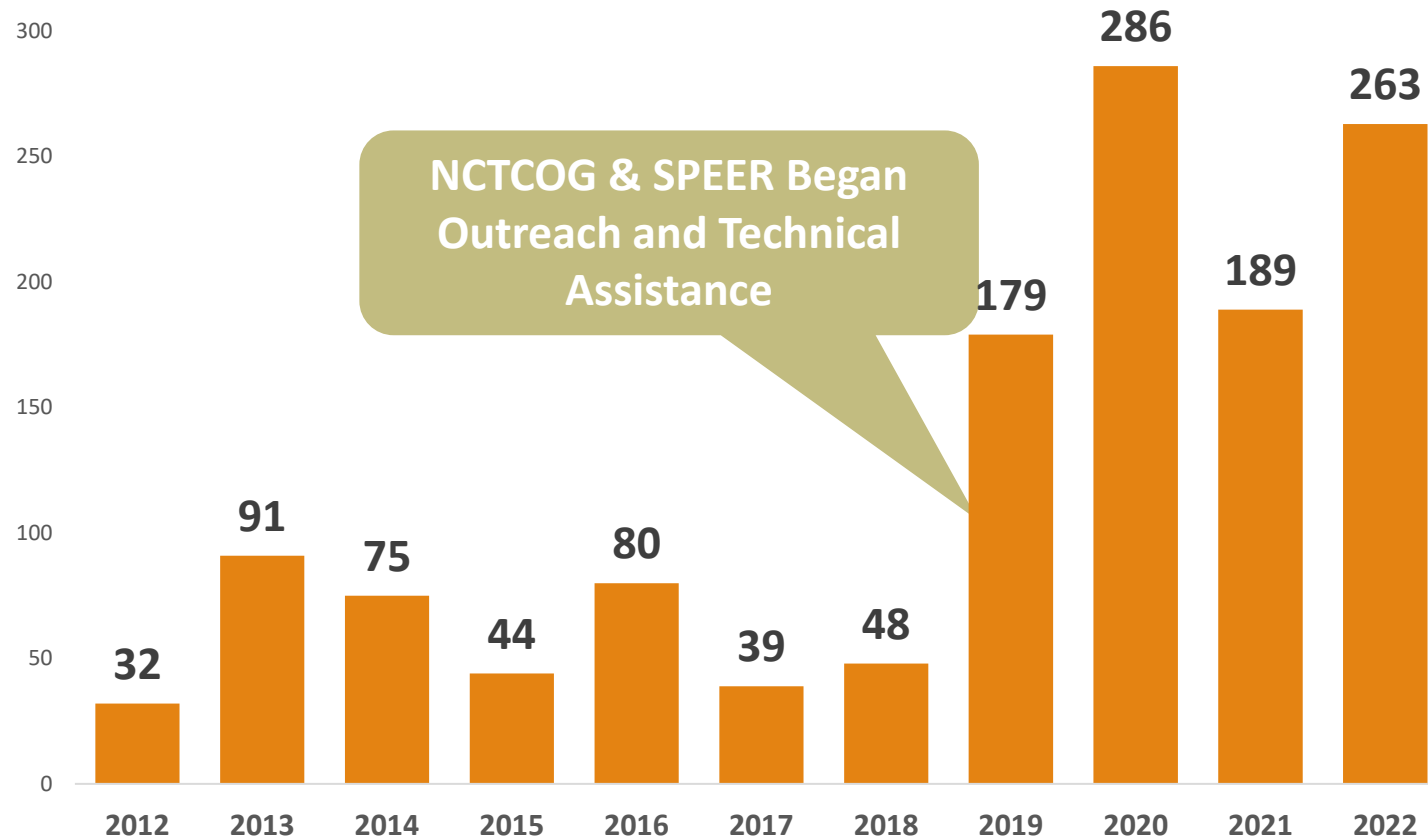
Composition of <u>Texas Entities</u> Who Submitted a 2022 Local Government Energy Report

- Appraisal District 5%
- County 4%
- Higher Education 6%
- State Agency 28%
- Municipality 57%

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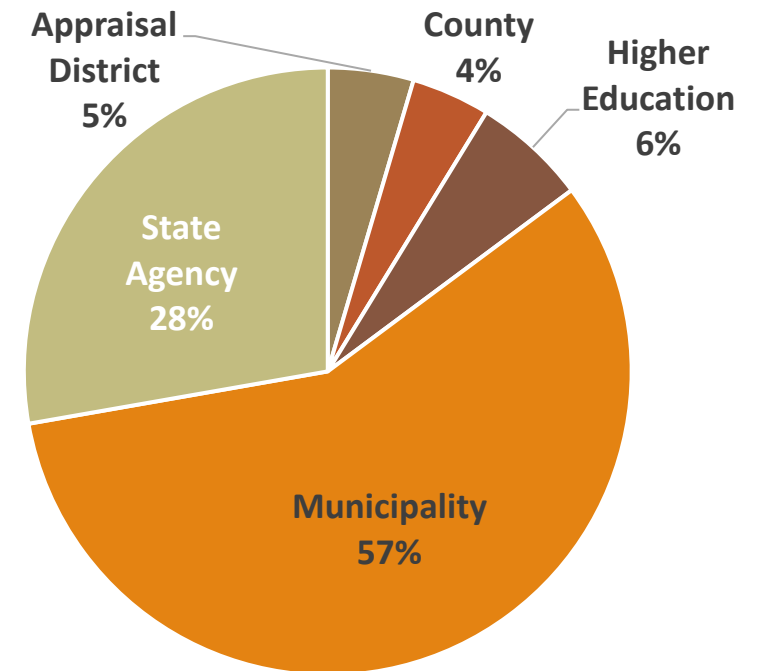
Local Government Reporting Form (Online)

Report Sections
1. Reporting Entity Information
2. Reduction Goal
3. Calendar Year of Report
4. Consumption Data
5. **Renewable Energy Data (Optional)**
6. Use and Interest in SECO Assistance Resources
7. Areas of Improvement & Resources
8. Additional Feedback
9. Progress Toward Goal

Sections 1, 2, 3, 6, 7, 9 and portions of Section 4 of the Local Government/State Agency Energy Report must be completed by all reporting entities. Section 5: Renewable Energy Data is optional.

Getting Started

- Create a Data Checklist (see reporting help guide)
- Know your data sources
- Keep your data organized, consistent and "tidy"
- Prep for next year now!
- [Reporting Link](#)

How to Report

Submit a Report

Note: Requirement for saving an incomplete energy reporting form. The user must resume/complete their survey using the same computer they started preparing the form. The user cannot clear their browser cookies while the form is being prepared or the user will lose the prior entered information. Incomplete forms are saved to a cookie in the user's browser, which remains until the cookies are cleared in the browser. Since cookies are local to a specific device, the user must resume/complete their survey using the same computer.

Use this Reporting Help Guide (PDF) of the report to gather all necessary information prior to reporting online. Scanned copies will not be accepted. Reports must be completed online.

Section 1: Background Information

- City Information
- Contact Information
- Ensure to update contact information for those who will be completing next years reporting

Section 2: Reduction Goal

- Reduction goal established (Y/N)
- Goal can take several forms
- Denton historically does this through council resolution
- Updates with each new iteration of the SB to reflect length of time and start date

SECTION 2: Reduction Goal

* Has your organization complied with Texas Health and Safety Code §388.005(c), which states that "Each political subdivision, institution of higher education, or state agency [in an ozone non-attainment or affected county as identified by the Texas Health and Safety Code §386.001] shall establish a goal to reduce the electric consumption by the entity by at least five percent each state fiscal year for seven years, beginning September 1, 2019?"

Note: This question simply asks if your organization has set a goal, not whether your actual consumption decreased.

- ✔ Yes
- ◯ No

Section 3: Reporting Period

- Reporting period for local governments Jan 1 to Dec 31
- As stated, your January data or December data may overlap into other months
- Current Practice: split months based on meter read date (before or after the 15th of the month)

SECTION 3: Reporting Period

Reports should be submitted to reflect a 12 month period of the preceding year. State agencies and higher education should report fiscal year data (September – August) and local and county governments should report on a calendar year basis (January – December). Since billing cycles may not break "cleanly" across a calendar month, it is acceptable for consumption data to be based on utility billing months of the previous year.

* Twelve-month reporting period

Start (MM/DD/YYYY):   01/01/2021

End (MM/DD/YYYY):   12/31/2021

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Section 4: Consumption Data

- Checklist helps in this section
- Know your data sources
- Organization starts with data collection create a SB 241 field if possible (BF, ST, TS, W, WW, NA)
- Get informed on account changes

Section	Description	Metric	Source	Value
4	No. of Buildings	units	Risk Mgmt	192
4	Building Sqft	sqft	Risk Mgmt	1,382,813
4	Total Building kwh	kwh	DME/Billing/Oncor/Coserv	x
4	Number of Traffic Lights	units	DME	x
4	Traffic Light kwh	kwh	Billing	x
4	Number of Street Lights	units	DME	x
4	Street Light kwh	kwh	Billing	x
4	Potable water supplied (MGD)	Avg MGD	Water	x
4	Water Supply kwh	kwh	Billing	x
4	Wastewater Treated (MGD)	Avg MGD	Wastewater	x
4	Wastewater Treatment kwh	kwh	Billing	x
4	Total number of Evs in fleet	units	Fleet Services	x
4	kwh used in EV charging	kwh	Billing	x
4	Other uses	NA	Billing/Facilities	x
4	Other uses kwh	kwh	Billing	x

serv street no	serv street mod	serv street	serv unit	name	HBU Desc	Department	Location	Function	GHG Code
215	E	MCKINNEY ST		COD 230001 7934	GF, Admin Serv - Facil Man	FAC	City Hall Main	Building	BF

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Section 4: Consumption Data

- Buildings
  - Risk management is a great resource
  - Keep billing codes in mind
- Lighting
  - Metered vs. unmetered
  - Owned vs. unowned
- Water and Wastewater
  - You may or may not have a treatment plant to report
  - You will have pumps and lift stations

SECTION 4: Consumption Data

For Local Governments, enter annual consumption for entity facilities for January - December of the reporting year indicated above. For state agencies/higher education, enter annual consumption for fiscal year. Information should be reported only for buildings, street/traffic lighting, water treatment facilities, etc. owned/controlled by the reporting entity (e.g. if a city's street-lighting is owned by a utility , those streetlights should not be included in the report). For water utility enterprises, the quantity is the total associated with their service area.

Enter annual electrical usage in kWh for the reporting period indicated above. (1 MWh = 1,000 kWh)

* Number of Buildings:

* Buildings Gross Square Footage:

* Total Buildings (kWh):

Number of Traffic Lights (optional):

Traffic Lighting (kWh) (optional):

Number of Street Lights (optional):

Street Lighting (kWh) (optional):

Potable water supply facilities (Ave. Million Gal/Day) (optional):

Potable water supply facilities (kWh) (optional):

Wastewater treatment (Ave. Million Gal/Day) (optional):

Wastewater treatment plants (kWh) (optional):

Total number of electric vehicles (EVs) (includes both battery-electric and plug-in hybrid electric vehicles) (optional):

Total electric use (kWh) of electric vehicles (EVS) charging stations (only include stations that are NOT sub- metered) (optional):

Other (please specify) (kWh) (optional):

* **REQUIRED: Total electricity consumption (kWh):**

500000

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Section 4: Consumption Data

- Natural Gas
  - Check your units
  - Different data set than electricity
  - Data storage tip – have at least one linking data field (ex. address)
- Water Usage
  - Billing category vs. usage category

Natural Gas Consumption Data in MCF (optional) (1 MCF = 1,000 CF)

Buildings (MCF):	
Potable water supply facilities (MCF):	
Wastewater treatment plants (MCF):	
Other (please specify) (MCF):	
Total natural gas consumption (MCF):	

Water Usage in kGal (optional) (1 kGal = 1,000 gallons):

Buildings (kGal):	
Potable water supply facilities (kGal):	
Wastewater treatment plants (kGal):	
Other (please specify) (kGal):	
Total water usage (kGal):	

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Section 5: Renewable Energy Data

- Solar, Wind, Biomass, Geothermal
- On site summary
  - Entity energy footprint
- PPA Summary

SECTION 5: Renewable Energy Data (Optional)

Solar Photovoltaic (kWh):

Total quantity from on site solar photovoltaics (kWh):

Total electricity purchased from off-site sources (e.g. through a "green energy" contract, Power Purchase Agreement, etc.) (kWh)

Additional Comments:

Wind (kWh):

Total quantity generated from on site wind (kWh):

Total electricity purchased from off-site sources (e.g. through a "green energy" contract, Power Purchase Agreement, etc.) (kWh):

Additional Comments:

Section 6: SECO Resources

- Preliminary Energy Assessment
- Technical Assistance
- LoanSTAR financing

SECTION 6: Use and Interest in SECO Assistance Resources

Describe use and interest in the various resources available from SECO or collaborative agencies over the past 3 years.

Note: Data will be saved upon clicking the "next" button. Upon returning to the survey after completion, the section 6 entries will be visible as previously entered (as with all other data).
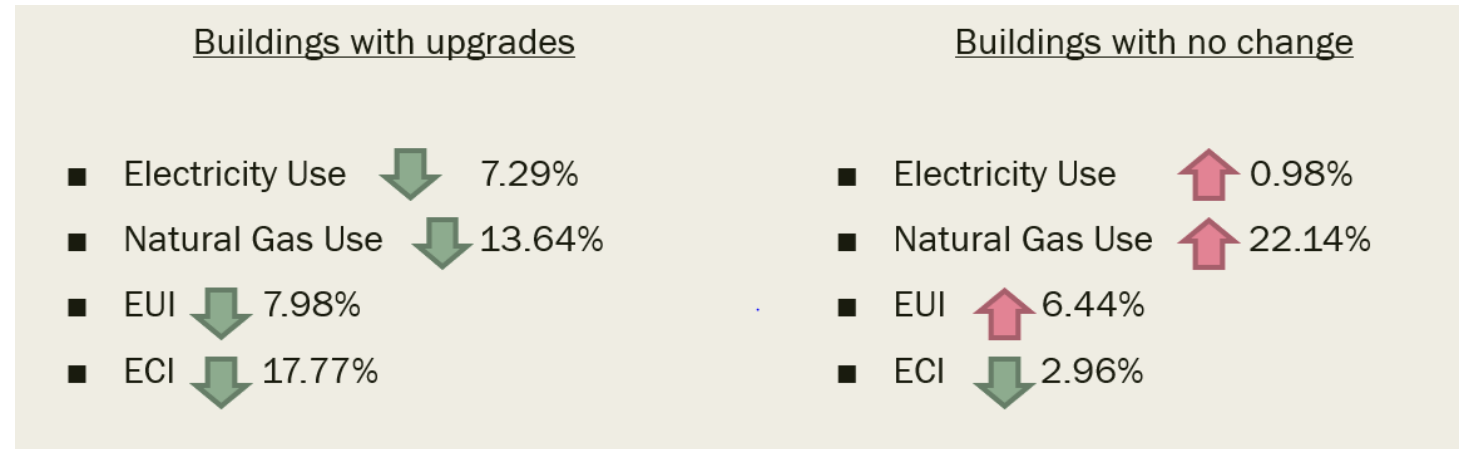
* **Retrofits and Upgrades**

	Planned	In Progress	Completed	Ongoing/Continuous	N/A	Interested In Learning More
Preliminary Energy Assessment (PEA) [link]	☐	☐	☐	☐	☐	☐
Technical Assistance for Local Governments [link]	☐	☐	☐	☐	☐	☐
City Efficiency Leadership Project (CELC) [link]	☐	☐	☐	☐	☐	☐
LoanSTAR Financing [link]	☐	☐	☐	☐	☐	☐

Additional Comments:

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Section 7&8: Areas of Improvement and Progress

- Physical upgrades
  - HVAC
  - Insulation
  - Management systems
- Policies and Training
  - Internal Energy Policy
  - Trainings (Denton has incorporated into monthly safety training in the past)

Buildings with upgrades		Buildings with no change	
Electricity Use	↓ 7.29%	Electricity Use	↑ 0.98%
Natural Gas Use	↓ 13.64%	Natural Gas Use	↑ 22.14%
EUI	↓ 7.98%	EUI	↑ 6.44%
ECI	↓ 17.77%	ECI	↓ 2.96%

City of Denton Example: upgrades following Denton's PEA

Section 9: Exemption Request

- Did you reach your goal?
  - Calculate based on 2019 baseline totals
- Claim exemptions if applicable after report has been completed

Local Government Energy Reporting Frequently Asked Questions

- Developed by SPEER using feedback and interviews with reporting entities

- Covers general questions and section-by-section guidance

Download Here!

Local Government / State Agency Energy Reporting

Frequently Asked Questions

November 19, 2020

SECO State Energy Conservation Office

Prepared for the State Energy Conservation Office by The South-central Partnership for Energy Efficiency as a Resource (SPEER)

SPEER The South-central Partnership for Energy Efficiency as a Resource

NCTCOG Local Government Energy Reporting Resources

Whitepaper
Texas' Mandated Local Government Energy Reduction Goal - Challenges and Best Practices

Case Study
Development of an Energy Management Plan for Tarrant Regional Water District

Case Study
The City of Lewisville's Energy Consumption Reduction

All Resources can be Accessed via
www.conservenorthtexas.org

Local Government Energy Reporting Toolkit

Key Takeaways and Next Steps

March

4

⭐ **Local Government Energy Reporting Deadline**

⭐ **Calendar Year Reporting Period:** January 1 – December 31

⭐ **Minimum Required Data Points Include**

- ✓ Reporting Timeframe (e.g., Calendar Year)

- ✓ Annual Electricity Consumption in Kilowatt Hours (kWh)

- ✓ Gross Square Footage of All Entity Owned Buildings/Facilities

⭐ **Review Prior Reporting Data on** SECO's "Energy Consumption Reporting Dashboard"

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SECO and SPEER Contacts

Shaun Auckland
Program Manager
The South-central Partnership for Energy
Efficiency as a Resource (SPEER)
cities@eepartnership.org

Adam Mueller
Program Specialist
State Energy Conservation Office (SECO)
Adam.mueller@cpa.Texas.gov

NCTCOG Contacts

Joaquin Escalante
Planner
Transportation
817-704-5646
Jescalante@nctcog.org

Amy Hodges
Principal Air Quality Planner
Transportation
817-704-2508
amyhodges@nctcog.org

Crysta Guzman
Senior Planner
Environment & Development
817-695-9107
cguzman@nctcog.org

Alyssa Knox
E&D Planner II
Environment & Development
817-695-9221
aknox@nctcog.org

energy@nctcog.org

Reminder!

- **Please complete the Workshop Evaluation**

- **Please complete the In-Kind Attestation Form**