North Central Texas Council of Governments

Dallas-Fort Worth CLEAN CITIES

AGENDA

DALLAS-FORT WORTH CLEAN CITIES (DFWCC) TECHNICAL ADVISORY COMMITTEE (TAC)
Tuesday, July 28, 2025, 2:00pm to 3:30pm
Kimley-Horn Office: 2500 Pacific Avenue, Suite 1110. Dallas, TX 75226

Optional Site-Visit and Committee Member Update:

1:00-1:40 Voltera Power Site Visit – 1321 N. Carroll Avenue, Dallas, TX 75204

Meeting Agenda:

2:00 – 2:05	1. Welcome & Introductions	Jose Correa
2:05 - 2:10	2. Approval of Previous Meeting Summary Meeting Summary – 5/6/25	Lori Clark
2:10 – 2:15	3. Status of Committee Membership	Julie Shaw
2:15 – 2:25	4. New DFWCC Logo	Joslyn Billings
2:25 – 3:10	5. Carryover Topics From Previous DFWCC TAC Meeting	
	a. DFWCC Strategic Plan Update and Future Goals Handout 1 Handout 2	Lori Clark/ Juliana VandenBorn
	b. Charging and Fueling Infrastructure: Community Award Update	Jared Wright
	c. Update on Concept Papers submitted to Department of Energy Funding Opportunity	Lori Clark
	d. Feedback on Standard Operation Procedures i. Coalition Director Succession/Transition ii. Fleet Assistance	Lori Clark
3:10 – 3:15	6. DFWCC Staff Update	
	a. Draft North Texas Resilient Electric Vehicle Infrastructure Plan	Hannah Thesing
	b. RTC Legislative Update Items: NCTCOG - Legislative Affairs	
3:15 – 3:25	7. Upcoming Events, Engagements, & Funding Opportunities	
	a. September 12 to October 12: National Drive Electric Month	Irlenia Hermosillo
3:25 – 3:30	8. Questions/Comments/Feedback/Topics for next meeting	
3:30	Adjourn – Next Meeting October 28, 2025	

North Central Texas Council of Governments

Dallas-Fort Worth CLEAN CITIES

DFW Clean Cities Technical Advisory Committee Meeting

July 28, 2025

Kimley-Horn Offices

Dallas, Texas

Agenda

2:00 – 2:05	1. Welcome & Introductions
2:05 – 2:10	2. Approval of Previous Meeting Summary
2:10 – 2:15	3. Status of Committee Membership
2:15 – 2:25	4. New DFWCC Logo
2:25 – 3:10	5. Carryover Topics From Previous DFWCC TAC Meeting a. DFWCC Strategic Plan Update and Future Goals b. CFI Community Award Update c. Update on Concept Papers submitted to Department of Energy Funding Opportunity d. Feedback on Standard Operation Procedures i. Coalition Director Succession/Transition ii. Fleet Assistance
3:10 – 3:15	6. DFWCC Staff Update a. Draft North Texas Resilient Electric Vehicle Infrastructure Plan b. RTC Legislative Update Items: NCTCOG - Legislative Affairs
3:15 – 3:25	7. Upcoming Events, Engagements, and Funding Opportunities
3:25 – 3:30	8. Questions/Comments/Feedback/Topics for Next Time
	Adjourn

1. Welcome & Introductions

2. Approval of May 6, 2025 Meeting Summary

3. Status of Committee Membership

4. New DFWCC Logo

Option 1

Option 2

Option 3

Option 4

Option 5

Option 6

5.a. DFWCC Strategic Plan Update and Future Goals

See Handouts

Previous Discussion/Questions:

How should we revise the goals? Which have become less important or are largely accomplished?

What goals are most important?

Which goals need the most additional resources?

What specific actions should Coalition staff take to achieve the goals?

Feedback Received/Other Discussion:

- Important to consider "preliminary" activities, such as workforce development, training, and limitations of existing building infrastructure, planning for alternative fuel transition planning, etc.
- How fleets are "counted" should impact the goal set. Based on current progress, the overall Public fleet goal seems low/Private fleet goal seems high (strategize other ways to track Private fleets' progress?)

5.a. - Handout 1 DFWCC Strategic Plan Update and Future Goals

DFWCC Strategic Plan Goals	Related CCP Measure/Other Targets	2022 Progress**	2024 Progress***	Potential 2030/ 2050 Cumulative Targets	Barriers to Achieving Targets
Support and Document 20 Public Sector Fleets Who Adopt NO_X Reducing Alternative Fuels* by 2027	Increase Public Sector Fleets adopt NO_X reducing fuels *(On or Off-Road Vehicles)*	0	~15	35? by 2030	Lack of infrastructure; Federal investments rescinded;
	City of Dallas/Dallas-Fort Worth International Airport Plans			50? by 2050	
Support and Document 10 Private Sector Fleets Who Adopt NO_X Reducing Alternative Fuels* by 2027	Increase Private Sector Fleets adopt NO_X reducing fuels *(On or Off-Road Vehicles)*	0	~3	15? by 2030	Fewer Connections with Private Fleets; same as Public Fleets
				25? by 2050	
Increase Electric Vehicle (EV) Registration by Consumers/General Public across the 12-County Metropolitan Planning Area so that at least 100 EVs are Registered in each Zip Code by 2027	Increase EV Registration by Consumers/General Public in the 12-County Metropolitan Planning Area	58,609 total EV Adopted	122,609 total EV Adopted	Total EVs Adopted	Lack of Infrastructure; Federal Investments Rescinded;
		****Number of Zip Codes with EV Registration: >100 EV: 136 <100 EV: 185 Zero EV: 21	*****Number of Zip Codes with EV Registration: >100 EV: 179 <100 EV: 148 Zero EV: 15	Zip Codes with EV Registration? Different metric?	
PROPOSED NEW DFWCC STRATEGIC PLAN GOAL: Demo a Zero-Emission Locomotive in DFW	Demo a Zero-Emission Locomotive in DFW	0	0	1 by 2030	Lack of Infrastructure; Cost; Lack of Funding
				5 by 2050	
PROPOSED NEW DFWCC STRATEGIC PLAN GOAL: Install Wayside Power for TRE	Install Wayside Power for TRE	Unknown	In solicitation for a contractor to install up to 10 Head End Power (HEP) cabinets by end of 2026	10 by 2030	

Source: NCTCOG/DFWCC

*NOx-Reducing Alternative Fuels: Propane, Compressed/Renewable Natural Gas, Electric Vehicles, Hybrid-Electric Vehicles, Hydrogen

**Progress Numbers: Baseline year; Consistent with development of DFWCC Strategic Plan

***Progress Numbers: Based on preliminary results from DFW Annual Survey; Not reflective of all 2024 efforts

****Based on January 2023 EVNT Data

*****Based on January 2025 EVNT Data

5.a. - Handout 2 Summary of DFW Clean Cities FY 2024-2027 Goals and Implementing Resources

Program	Goal	Description	Implemented Through*	Fiscal Year 2025	Fiscal Year 2026	Fiscal Year 2027	Clean Cities Coalition Subtask Areas: Market Development Events/ Workshops/ Meetings	Infrastructure Planning & Development	Technical Assistance & Fleet Coaching	Technical Training & Education
Clean Vehicle Initiatives	1	20 Public Fleets Transition to Alternative Fuel	EPA Clean Heavy-Duty Vehicle Program (Rebates for fleets to replace emitting vehicles with ZEVs; first responder ZEV training; ZEV workforce development plan)	X	X	X	X			X
	2	10 Private Sector Fleets Transition to Alternative Fuel	EPA Clean Heavy-Duty Vehicle Program (Rebates for fleets to replace emitting vehicles with ZEVs; first responder ZEV training; ZEV workforce development plan)	X	X	X	X			X
	3	Increase EV registration by consumers/general public								
	4	Expand EV workforce training programs at community colleges	GUMBO	X	X					X
Clean Energy Initiatives	1	Assist public fleets in transitioning from compressed natural gas to renewable natural gas (RNG)								
	2	Support and expedite deployment of clean vehicle technologies and alternative fuel infrastructure.	Charging Smart (Technical assistance for municipalities to earn EV-friendly designation)	X					X	
	3	Expand the workforce training programs	GUMBO (Deploy EV charging station technician training curriculum)	X	X					X
			EPA Clean Heavy-Duty Vehicle Program (Rebates for fleets to replace emitting vehicles with ZEVs; first responder ZEV training; ZEV workforce development plan)	X	X	X				X
	4	Minimize negative electric grid impacts from transportation electrification	Air Quality Initiatives: Energy Efficiency : Collaborate, evaluate impacts, and develop resources addressing electric grid impacts associated with electrification of transportation and deploy strategic electrification infrastructure to assess impacts and fill gaps.	X	X	X		X		
			North Texas Resilient EV Charging Project (Develop a Resilient EV Charging Plan for North Texas)	X	X	X		X		
Alternative Fuel Infrastructure Initiatives	1	Support development of 100 new publicly accessible light-duty electric vehicle charging stations	CFI Community Award (Deploy up to 100 new charging points and expedite through a Dream Team consultant)	X	X	X		X		
			Texas EV Charging Plan (Deploy EV charging stations using NEVI funding)	X	X	X		X		
			EV Charging Reliability and Accessibility Accelerator Award (Repair or upgrade non-operational chargers to meet NEVI standards)	X	X			X		
	2	Support development of 10 medium/heavy-duty alternative fuel charging or refueling stations	~~Houston 2 Los Angeles I-10 Hydrogen Corridor Project (Conduct community engagement to inform hydrogen infrastructure planning)~~	~~X~~				~~X~~		
			Texas EV Charging Plan (Deploy EV charging stations using NEVI funding)	X	X	X		X		
			Texas Hydrogen and Electric Freight Infrastructure Project (Deploy up to 5 hydrogen fueling stations around the Texas Triangle)	X	X	X		X		
			Alternative Fuels Corridor Planning (Plan infrastructure to support medium-heavy duty alternative fuel use along corridors)		X	X		X		
	3	Support development to support 25 publicly accessible EV charging projects that increase resiliency, reliability, and emergency preparedness of the EV charging network	North Texas Resilient EV Charging Project (Develop a Resilient EV Charging Plan for North Texas)	X	X	X		X		

*Any goal that is accomplished simply through staff time/effort (e.g. planning efforts) can be implemented through MPO Formula Funding (~$1M per year) or the DFW Clean Cities Cooperative Agreement (~$100K per year)

5.a. DFWCC Strategic Plan Update and Future Goals

Draft Checklist Criteria

In reporting period, alternative fuel adoption counts towards the measure's progress if:

- A fleet added and/or expanded usage of alternative fuels,

AND

- One or more of the following criteria are met:

Fleet received NCTCOG funding	☑
Fleet received technical assistance from NCTCOG/DFWCC (e.g., analysis, funding, meeting/email correspondence, etc.)	
Fleet is a Clean Fleet Policy Adoptee and/or a DFWCC Stakeholder AND is a DFWCC Annual Survey Respondent	
Fleet regularly attends events/participates in NCTCOG/DFWCC initiatives (e.g., webinars/meetings, Technical Advisory Committee, other NCTCOG/DFWCC projects (CPRG, Charging Smart))	

Other Notes:

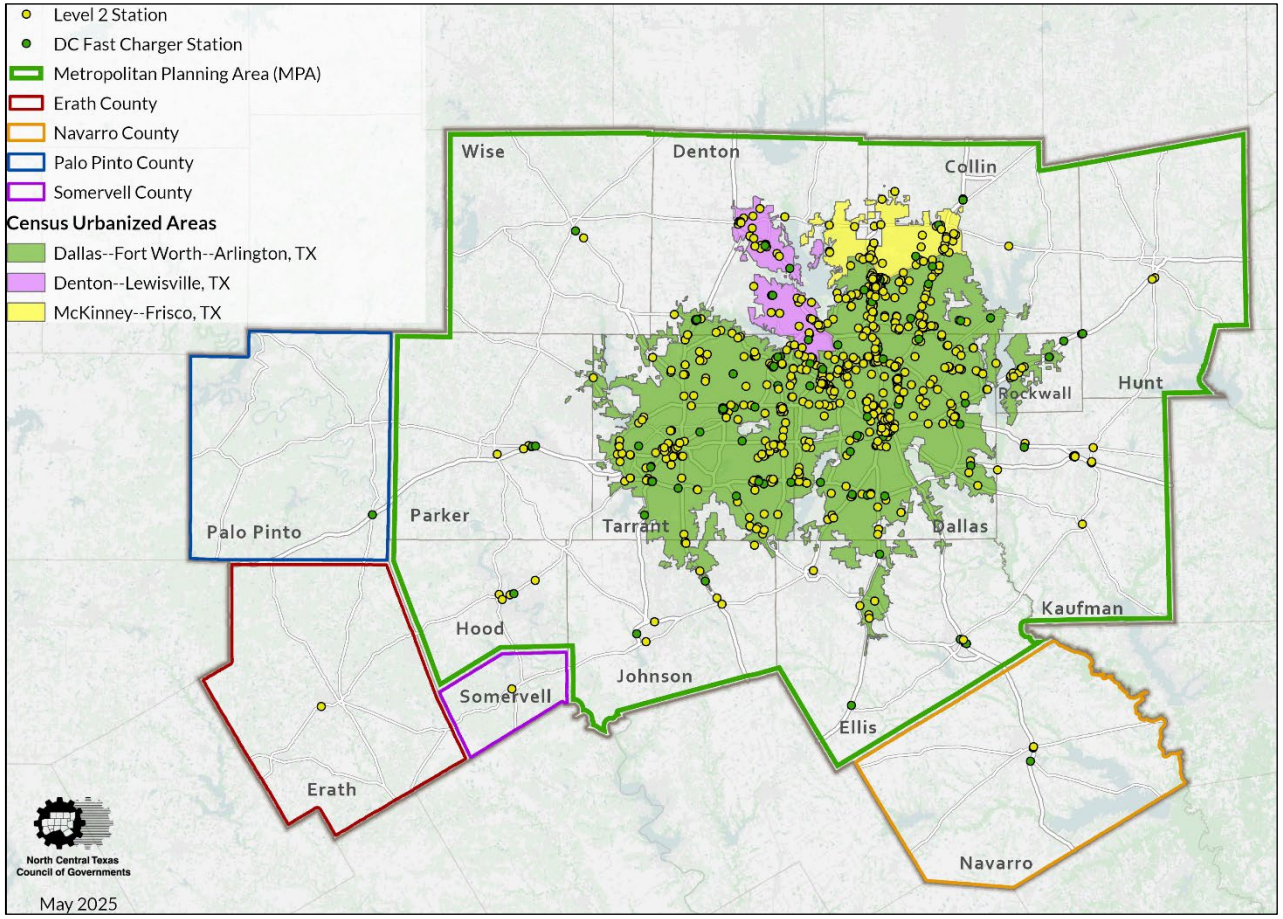
- Goal set is cumulative; fleets will only be "counted" once
- Conventional hybrid vehicles (requires no operational changes) and off-road vehicles (must be over 19kW (25 HP))

5.b. Charging and Fueling Infrastructure (CFI) Community Award Update

Awarded $15 million from the Federal Highway Administration (FHWA)to build EV charging stations on **public property** to provide up to 100 new charging ports regionwide

Focus on filling gaps and achieving equal access across the region

Procured a "Deployment Dream Team" to streamline implementation



Funds Currently Obligated: $14,068,800
Funds Pending Obligation: $931,200 (Sites in Erath, Palo Pinto, and Somervell Counties)

5.b. Charging and Fueling Infrastructure (CFI) Community Award Update

Following discussion at April 24 NCTCOG Executive Board Meeting, pivoting to a Call for Projects (CFP) for the site selection process

- Community Accessibility Metric will now be conducted as part of CFP scoring
- Deployment Dream Team (Kimley-Horn and Associates) will assist CFP efforts
  - Assist NCTCOG staff in hosting application workshops
  - Assist applicants in developing applications

Pending Executive Board Approval, CFP will open July 25

5.b. CFI Community Award Update

Eligible Projects: Level 2 or Direct Current Fast Charging stations on public sector property in the 16-county NCTCOG region

- Set Asides for Navarro, Erath, Palo Pinto, and Somervell counties
- Examples: Sports complexes, parks, city halls, community centers, libraries, multi-use service centers, transit stations, public schools
- Must meet National Electric Vehicle Infrastructure (NEVI) Standards under 23 CFR 680

Eligible Applicants: Public agencies, including local governments, transit agencies, school districts, and universities

Funding: Federal share up to 80% of the initial deployment capital costs and 20% of O&M

- Non-federal share to be contributed by EV charging station vendor(s)

Photo Credit: Dallas Area Rapid Transit

5.b. CFI Community Award Update

Proposed Screening Criteria:

- Projects must meet eligibility requirements
- Projects must pass independent parallel "Deployment Team" Risk Assessment
- Remaining eligible projects will be scored based on criteria below

Proposed Scoring Criteria for Eligible Projects:

Areas with Insufficient Charging	Areas with Potential Demand	Public Engagement	Feasibility and Risk	
Up to 60 points	Up to 20 points	Up to 10 points	Up to 10 points	0 Points - Fatal flaw analysis
Distance from existing or planned charging stations Existing chargers do not adequately support area needs (ratio of vehicles to chargers; community/ economic development)	Location could serve multi-modal hubs or fleet shared use areas (e.g. first- or last-mile driver connection, rideshare drivers) Location could serve community fleets	Near locations recommended by the general public Facility type recommended by the general public (e.g. parks, rec centers, schools)	Demonstrated project readiness (implementation plan, strategies to drive utilization) Measures to mitigate station damage or inoperability (e.g. site security, grid integration)	"Deployment Dream Team" location risk assessment (e.g. electrical capacity, flood risk)

5.b. CFI Community Award Update

Call for Projects Workshops

- City of Lancaster
  - Tuesday, August 12, 2025
  - 2:00 – 3:30pm
  - In-person
- NCTCOG Offices in Arlington
  - Thursday, August 21, 2025
  - 1:30 - 3:00pm
  - Hybrid, recording will be posted online
- 2-3 Additional In-Person Workshops in process
- City of Mesquite
  - Thursday, August 14, 2025
  - 10:00 - 11:30am
  - In-person

Requesting Committee Members help publicize Call for Projects; apply if eligible and interested
Call for Projects webpage: nctcog.org/EVcharginggrant

- Program details
- CFP Materials
- Workshop information
- Public outreach toolkit

5.c. Update on Concept Papers Submitted to Department of Energy

UT Arlington:

- Project 1: Multi-level Electric Vehicle Workforce Training and Certification
- Project 2: Deployment-Ready, Grid-Friendly High-Power Charging Solutions for Medium and Heavy-Duty Zero Emission Vehicles

University of North Texas:

- Project 1: Leveraging Advanced Metering Infrastructure for Optimized Electric Vehicle Grid Integration and Smart Charge Management

Minimal Feedback but all was Supportive

No Additional Communications from Department of Energy

5.d. Feedback on Standard Operating Procedures (SOPs)

Coalition Director Succession/Transition SOP:

- Feedback:
  - Satisfied with the Plan

Fleet Assistance SOP:

- Feedback:
  - Might be beneficial to add the VIN to the data points to be requested. In a previous fleet project, having the VIN identified a couple of vehicles that were misidentified.
  - In the introductory meeting with fleets, would be beneficial to include a discussion of 'right-sizing' as well.

Dallas-Fort Worth Clean Cities Coalition

Coalition Director Succession/Transition Plan

*The Coalition must **develop and maintain coalition director succession or transition plan documentation**. This documentation must include coalition activities, SOPs, and stakeholder contact information. The coalition director must **work with the stakeholder group to review (and update, when necessary) the plan and documentation at least annually**. The coalition director must make documentation available to the stakeholder group and host organization management (if the Coalition is hosted).*

The Dallas-Fort Worth Clean Cities Coalition (DFWCC) is hosted by the North Central Texas Council of Governments (NCTCOG). The Coalition mission and objectives are closely aligned with key objectives of the NCTCOG Transportation Department, which has air quality planning responsibilities associated with ozone nonattainment and thus carries out transportation projects that reduce ozone-forming pollution, including projects that reduce emissions from vehicles through use of alternative fuels. Thus, Coalition staff are employed in the NCTCOG Transportation Department Clean Fleet & Energy Program area. The team structure is illustrated in the attached organizational chart.

As shown in the organizational chart, the Coalition is robustly staffed. The team structure includes the Director, a level of middle managers, and a level of front-line planners.

All team members attend a core minimum suite of Clean Cities and Communities e-learning modules and Clean Cities and Communities webinars to develop expertise about the national partnership. All staff have access to all Coalition files, as does host agency staff. This ensures that there are always staff other than the Director with elevated levels of responsibility, experience, and expertise who are familiar with Coalition activities and would ensure continuity of operations.

In the event the Director resigns or is reassigned to a different role, the Coalition Director role would be transitioned to one of the middle managers as determined by the Coalition Director in consultation with host agency management and the candidate managers.

In the event the Director's departure is unforeseen/unplanned, host agency management and candidate managers would coordinate to determine best fit for the next Director position.

The change in Coalition leadership should be conveyed to:

- The Coalition's Regional Manager to convey the change in structure and request a copy of the latest Clean Cities and Communities Handbook. The handbook contains key steps and information for the new Director to get integrated into the national Clean Cities and Communities network.
    - Neil Kirschner:
- Chair and Vice-Chair of the DFW Clean Cities Technical Advisory Committee
    - Jose Correa:
    - Dwayne Bianco:
- Coalition Stakeholders & interested parties
    - A contact list is maintained by Coalition staff

Information should be updated at:

- Coalition page at https://cleancities.energy.gov/coalitions/dallas-fort-worth
    - Point of contact:
- Coalition website at www.dfwcleancities.org
-

Dallas-Fort Worth Clean Cities Coalition (DFWCC)

Fleet Technical Assistance Standard Operating Procedure (SOP)

This document outlines the standard operating procedures coalition staff should take to aid fleets/stakeholders interested in learning more about transitioning to alternative fuel vehicles. This includes engaging with fleets, identifying funding, and conducting an analysis of emissions reductions and total cost of ownership from transitioning from conventional fuels to alternative fuels.

Assumptions:

- Coalition staff have a basic understanding of typical fleet/vehicle operations for public/private entities, alternative fuel vehicles(benefits and negatives), alternative fuel infrastructure, and air quality issues in Dallas-Fort Worth (DFW) (i.e., Internal Combustion Engines (ICE) vehicles emit nitrogen oxides (NO_X) and volatile organic compounds (VOC) emissions which leads to increased formation of ground-level ozone, nonattainment issues, etc.).
- Assistance is *requested* from a fleet/stakeholder.

Fleet Assistance Steps:

Once a fleet/stakeholder has contacted DFWCC staff and requested assistance with something related to alternative fuel vehicles (i.e., general interest/information, vehicle transition goals, specific vehicle replacement assistance, help with funding, infrastructure, etc.), Coalition staff should:

1) **Request to set up a one-on-one meeting with fleet (via Microsoft Teams/Zoom or in-person)**
    - **a.** Identify what Coalition staff should be included in the meeting.
        i. *Refer to the coalition organization chart for coalition staff areas of expertise and involvement in team projects/initiatives*).
    - **b.** Identify any DFWCC Technical Advisory Committee (TAC) members which may need to be included based on the fleet's requested topic and TAC members experience.
    - **c.** Identify three meeting times based on staff availability and send to the fleet ***or*** ask the fleet for their availability.
    - **d.** Consider if any resources/other materials should be sent ahead of the meeting to assist the fleet or help facilitate discussion:
        i. Examples could include relevant or upcoming funding opportunities, events, or other engagement/informational opportunities. Additionally, consider sending key resources included in ***Appendix A*****.**
        ii. In certain instances, it might be appropriate to request vehicle data points from a fleet prior to the meeting. For example, a fleet wants to know if there

are electric vehicles that meet their operational requirements. Appenidx B contains a template Excel file to send to fleets. Typical data points to request include:

1. *Engine Model Year*
2. *Vehicle Make/Model/Type*
3. *Gross Vehicle Weight Rating*
4. *Fuel Type*
5. *Annual Fuel Use/Mileage*

Note: If the request can be answered via email, you may not need to set up a meeting (use discretion). However, it is important to set up a meeting with a new or less familiar fleet/stakeholder to identify their goals and ways DFWCC or the TAC can assist.

2) **Prepare for the meeting**
   - **a.** Check to see if the fleet/stakeholder has submitted an Annual Survey in the past. If they have, review to familiarize yourself with fleet data, accomplishments, or goals.
   - **b.** Review **Appendix C** and identify key questions to ask during meeting.
   - **c.** Set up the **CVI One Note** section for taking notes during the meeting and add the key questions.
   - **d.** Determine if any resources would be helpful to share with the fleet during the meeting. See **Appendix A** below.

Potential Scenarios:

Example Scenario 1: A fleet requested information on the potential cost savings from purchasing a light-duty electric vehicle versus a gasoline vehicle. Review total cost of calculators (typically the AFLEET tool), introduce the calculator during the meeting, and provide a link as a follow up (or offer to conduct calculations for the fleet).

Example Scenario 2: A fleet requested information on available electric vehicles for a specific vehicle type (i.e. SUV). Review the AFDC Vehicle Search Tool/ Fuel Economy Website/etc. prior to meeting, demo the tools during the meeting, and provide as a follow up.

Example Scenario 3: A fleet already determined what vehicles to replace with alternative fuel vehicles. Review/identify funding opportunities which may work, present to the fleet during the meeting, and follow up with the links to the funding opportunities after the meeting.

3) **Conduct the meeting and follow-up**
   - **a.** Typical Meeting Agenda:
     - i. Staff and Attendees Introductions
     - ii. NCTCOG: Key questions from **Appendix C.**
     - iii. Questions from Fleet *(if needed)*
     - iv. NCTCOG: Other information/services to offer the fleet/stakeholder.

1. Conducting a Fleet Inventory Analysis (or portion of one (i.e. Funding Evaluation) for fleet –
    a. Data points needed for Fleet Inventory Analysis/Funding Evaluation in Template.
    b. Analysis Includes:
        i. Fleet Inventory Analysis: Identification of potential replacement vehicle(s) in current fleet and equivalent alternative fuel vehicle(s). Calculate potential cost and emission savings from transitioning to alternative fuels. *(typically calculated through AFLEET)*
        ii. **Funding Evaluation:** Identify potential funding opportunities for fleets.
2. Information on other vehicle related best practices:
    a. DFWCC Success Stories, Previous DFWCC Events, NCTCOG Clean Fleet Policy, DFWCC E-Blasts/Social Media/Upcoming Meetings and Events
3. Information on DFWCC/NCTCOG specific initiatives:
    a. Annual Survey & Fleet Recognition, NCTCOG RFPs & CFPs, DFWCC TAC and/or Stakeholder Commitment and/or Sponsorship

v. NCTCOG: Meeting Wrap Up and Next Steps

b. NCTCOG provide follow-up information to send to the fleet/stakeholder.
    i. Could include alternative fuel vehicle availability, open or soon-to-open funding opportunities/incentives, idle reduction strategies, fuel economy improvements, alternative fuel station map, policy implementation, maintenance or training information, vehicle emissions or total cost of ownership tools, safety information or first-responder training, etc. Additional resources are available in ***Appendix A.***

c. Send follow-up information via email to fleet/stakeholder *(within one week of meeting)*

4) Confirm fleet contact is in Customer Relationship Management (CRM) System
5) Document fleet as potential fleet to support DFWCC Strategic Plan Goals in Smartsheet
6) Contact fleet at least quarterly to check in on progress towards transitioning

DRAFT- Appendix A: List of Commonly Shared Resources for Fleets							
Resource Title/Link	**Category**	**Explanation**	**Resource Category**				
			General Information	Funding	Case Studies/ Research	Tools	Other
Dallas-Fort Worth Clean Cities (DFWCC)	DFWCC Resource	DFWCC home page.	Yes				
DFW Clean Cities Initiatives		Current DFWCC intiatives.	Yes				
DFW Clean Cities Annual Report		Emissions/energy trends from alternative fuel vehicle use).	Yes				
DFW Clean Cities Fleet Recognition Program		Information on DFWCC's award program for fleets.	Yes				
DFW Clean Cities Technical Advisory Committee		The Dallas-Fort Worth Clean Cities Coalition Technical Advisory Committee guides DFWCC's strategic direction, support its activities, and facilitate its capacity for growth. The Technical Advisory Committee can provide technical expertise.	Yes				
DFW Clean Cities Events		Upcoming DFWCC events/meetings.	Yes				
Electric Vehicles North Texas | DFWCC		Electric Vehicle Registration Data.	Yes			Yes	
North Central Texas Council of Governments (NCTCOG)- Transportation	NCTCOG Resources/Info	General Information on NCTCOG Transportation projects and information on the Transportation committees including the Regional Transportation Council (RTC) which serves as the policymaking body for the Metropolitan Planning Organization (MPO).	Yes				
NCTCOG - Air Quality		General information on the current status of air quality in NCTCOG's region.	Yes				
NCTCOG - Stay Informed		Sign up for the recommended e-blasts (and that are managed by our team) include Air Quality Funding Update, Clean School Bus Update, and Dallas-Fort Worth Clean Cities Coalition.	Yes	Yes	Yes	Yes	Yes
NCTCOG - Funding and Resources		Comprehensive list of funding opportunities for vehicle, infrastructure, and transportation-related energy projects.		Yes			
NCTCOG - For Fleets		Information on various NCTCOG intiatives to benefit fleets.	Yes	Yes	Yes	Yes	
NCTCOG - Clean Fleet Policy		Provides a framework for efficient and low-emitting fleet operations, supported and adopted by entities in the RTC.	Yes				
Clean Cities and Communities	DOE CC&C Website	National Clean Cities & Communities (CC&C) website.	Yes				
Air Grants: Funding for Vehicles, Equipment, and Fuel Infrastructure - Texas Commission on Environmental Quality - www.tceq.texas.gov	TCEQ Funding Summary Webpage	Funding Summary for TERP & TxVEMP.		Yes			
EERE: Alternative Fuels Data Center Home Page	DOE's AFDC Webpage	General information on the various alternative fuel types including benefits and considerations, related vehicles and infrastructure, and case studies and research papers.	Yes				
Alternative Fuels Data Center: Alternative Fueling Station Locator		Available tool used to locate alternative vehicle fueling stations in the U.S.				Yes	
Alternative Fuels Data Center: Federal and State Laws and Incentives		Collection of Federal and State laws and incentives available for alternative fuel vehicles and infrastructure.		Yes			
Alternative Fuels Data Center: Strategies to Conserve Fuel		Information on fuel efficiency efforts.	Yes				
Alternative Fuels Data Center: Tools		Available tools used to calculate various vehicle operation metrics.				Yes	
Alternative Fuels Data Center: Vehicle Conversions		Information on converting vehicles from one fuel type to another.				Yes	
Alternative Fuels Data Center: Fuel Prices		Average retail fuel prices of alternative fuels in the U.S.	Yes				
Alternative Fuels Data Center: Electricity		Information on using electricity as a transportation fuel.	Yes				
Alternative Fuels Data Center: Electric Vehicles for Fleets		Information on fleets using electriicty as a transporattion fuel.	Yes				
ev-fleets-checklist.pdf		Checklist template for use when introducing an electric vehicle into a fleet.	Yes				

DRAFT- Appendix A: List of Commonly Shared Resources for Fleets							
Resource Title/Link	**Category**	**Explanation**	**Resource Category**				
			General Information	Funding	Case Studies/ Research	Tools	Other
Fuel Economy	DOE/EPA fueleconomy.gov Website	Federal website managed by the DOE and EPA on available vehicles, fuel economy savings, incentives, and more.	Yes				
Power Search		Search tool used to find vehicles with specific filters.	Yes			Yes	
Find and Compare Cars		Search tool used to compare vehicle specs.	Yes			Yes	
Fuel Economy – Fuel Savings Calculator		Available tools used to calculate various vehicle operation metrics.				Yes	
My Plug-in Hybrid Calculator		Particularly helpful tool for calculating the fuel use of a plug-in hybrid vehicle.				Yes	
Tax Incentives		General information on the Federal clean vehicle and energy tax credits		Yes			
Clean vehicle and energy credits | Internal Revenue Service	IRS webpage	Federal website managed by the IRS which provides information on and includes how to apply for clean vehicle and energy tax credits		Yes			
AFLEET Tool - Argonne National Laboratory	Argonne National Lab	Comprehensive tool developed by Daniel Burnham and the DOE Argonne Natl Lab used to calculate various vehicle operation metrics.				Yes	
World Resource Institute: Electric School Bus Initiative	WRI	Various resources focused on electric school buses, including case studies, funding, example RFPs, and total cost of ownership tools	Yes	Yes	Yes	Yes	
Atlas Public Policy Dashboard for Rapid Vehicle Electrification (DRVE)	Atlas Public Policy	Dashboard for Rapid Vehicle Electrification, or DRVE, calculates the financial viability and environmental impact of light-, medium-, and heavy-duty vehicle electrification across an entire fleet.				Yes	
Electrification Coalition	Electrificatin Coalition	Various resources to assist with vehicle electrification including case studies, funding, and an inventory of other tools and resources	Yes	Yes	Yes	Yes	
EVolve Houston	EVolve Houston	Conducts events, develops resources, and provides information on electric vehicles for the greater Houston Area	Yes	Yes	Yes		Yes
Environmental Defense Fund: Fleet Electrification Solutions Center	EDF	Various resources to assist with vehicle electrification including case studies, funding, and an inventory of other tools and resources	Yes	Yes	Yes	Yes	
Transportatin Energy Institute (TEI)	TEI	The Transportation Energy Institute is a non-advocacy research organization dedicated to studying transportation-energy.	Yes		Yes		Yes
Climate Mayor's EV Purchasing Collaborative	Climate Mayor's Collaborative	Collaborative purchasing options for electric vehicles, charging equipment, and related services.					Yes
TX SHARE	NCTCOG Resources/Info	TXShare is a cooperative purchasing program created by NCTCOG.					Yes
North American Council for Freight Efficiency (NACFE)	NACFE	The North American Council for Freight Efficiency (NACFE) works to drive the development and adoption of efficiency enhancing, environmentally beneficial, and cost-effective technologies, services, and operational practices in the movement of goods across North America. As part of this effort, NACFE hosts educational webinars/events, conducts research, and more.			Yes		Yes
Texas EV Charging Plan	TxDOT	Information on the ~$400M provided to the Texas Department of Transportation for the installation of publicly accessible EV chargers. Includes a map for local governments, individuals, and other stakeholders to provide feedback on where they want to see EV charging stations.	Yes	Yes			Yes
Oncor EVolution	Oncor	EVolution is an Oncor education program that provides fleet customers with information on electric vehicles and the role of the electric utility. Oncor hosts these sessions throughout the entire Oncor Service Territory.	Yes				Yes
Current Emission Standards	EPA	Use to look up current emission standards for light-, medium-, and heavy-duty vehicles.					Yes
California Air Resources Board Engine Certification	CARB	Use to look up current or historical emission standards for light-, medium-, and heavy-duty vehicles.					Yes
Source: NCTCOG							

Appendix B: Fleet Inventory Template								
ID #	Engine Model Year	Vehicle Make/Model	Vehicle Type (i.e. School Bus, Class 6 Box Truck, Landscaping)	Gross Vehicle Weight Rating	Fuel Type	Annual Fuel Use	Annual Miles Travelled	Years of Planned Ownership Remaining
Source: NCTCOG								

Appendix C: List of Fleet Related Internal Documents

Title/Link	Description
Teams/Sharepoint	
Fleet Evaluations & Assistance	Location of files related to a fleet transition analysis (e.g. AFLEET calculations (total cost of ownership, fleet footprint), funding eligibility evaluations, fleet inventories)
ZEV Plan Transition Guide	Location of files related to the zero-emission vehicle (ZEV) Plan Transition Guide which will serve as a guide for external fleets looking to switch to electric or hydrogen fuel cell vehicles
Fleet Manager Master List	Master Contact List for Fleets
Fleet Inventory Template	Key data points needed for AFLEET calculations or funding analysis.
I: Drive	
"I:\Air_Quality\Projects+Programs\Clean Cities\Clean Fleet Policy"	Fleets that have adopted the Clean Fleet Policy and records of signed policies
"I:\Air_Quality\Projects+Programs\Clean Cities\Requests and Assistance"	Various files related to fleet support and transition planning, and various examples of fleet specific support examples/analyses
"I:\Air_Quality\Projects+Programs\Clean Cities\Requests and Assistance\Fleet Evaluations"	Location of funding eligibility evaluations completed for fleets
"I:\Air_Quality\Projects+Programs\Clean Cities\Clean School Bus"	Location of files and work done for ISDs in the region
"I:\Air_Quality\Projects+Programs\Clean Cities\Clean School Bus\OutreachMasterList.xlsx"	Master Contact List for ISDs
"I:\Air_Quality\Financial\GrantAgreements\TCEQ\Rider7-2022-2023"	Location of files for the 2022-2023 Rider 7 project, including fleet transition analyses done for 3 fleets in Hunt County (these should be used as reference)
OneNote	
CVI (Web view)	Clean Vehicle Initiatives (CVI) OneNote Section
Fleet Assistance (Web view)	Location for meeting notes with fleets

Appendix D: Question List for Introductory Meeting with Fleets

General overview of fleet info (most of this will be provided after the meeting by the fleet for the analysis as well):

- # of vehicles operated
- Types of vehicles operated
- Where do vehicles operate?
- How many miles are traveled?
- How much are your vehicles idling?
- Average vehicle downtime and where?
    - Where do vehicles go at night?
- Where and how do you currently refuel?
    - How do you pay for fuel? Can you negotiate a set price, or does it vary?
    - How do you document or track fuel costs?
- How is vehicle data tracked?
- Which data points are currently tracked for each vehicle?
    - Year, make model, VIN, Department/Use/Category, Odometer, Fuel type, Fuel use (in gallons), Annual miles traveled, Maintenance and repair costs, cost per mile
- How often do you replace vehicles (age/mileage/condition)?
    - What are your acquisition targets vs. budget for this year, next year?
- Do you have any preferred vehicle manufacturers? Are there any vehicle manufacturers you do not buy from?
- How do you assess fleet asset costs - total cost of ownership or capital costs only?

Alt Fuel Questions:

- Do you have any alternative fuels currently? What fuel(s) and vehicles?
- Have you had alternative fuel vehicles in the past? If so, what alternative fuel and what was your experience?
- If you were to add infrastructure, where would you put it?
    - Do you lease your facility, or do you own it?
    - When do you plan to move, if you do?
- Are there any barriers to your adoption of alternative fuel vehicles?
- Do you have any concerns when thinking about implementing an alternative fuel project or other petroleum reduction initiative? (e.g., price, range, availability, downtime, training, convincing decision-makers, getting staff on board with decisions)
- Who are your utilities? (if interested in EV, electric utility; if interested in natural gas, natural gas utility)
- If interested in EV: Does your organization have a facilities manager?

General Questions:

- What is most important to you? What goals do you have with regard to your fleet operations?
    - Supporting domestically produced fuel

    - Cost savings
    - Emissions reduction
    - Other
- Do you have any policies in place to reduce fuel use?
    - Idle reduction?
    - Green procurement?
    - Eco-driving/Driver training initiatives?
- Do you have any questions about petroleum reduction strategies? Are there any materials you would find helpful?
    - Case studies?
    - Calculators?
- Are you aware of any other alt fuel or vehicle collaboration opportunities that could be coordinated with this effort?
- What other individuals would need to be involved in a decision to implement any petroleum reduction initiatives you might pursue?
- Anything else we should know about your fleet?

6.a. NTX-REV Project Update

Project Objective:

- Develop the North Texas Resilient Electric Vehicle (NTX-REV) plan for the 16-county NCTCOG region, providing a framework for the **continuity of critical electric vehicle operations during grid disruption**

Key Deliverables/Outputs:

- **NTX-REV Plan**
  - **Inventory of Identified Critical Electrified Vehicles and Assets**
  - **Inventory of Resilience Technologies**
  - **SWOT Analysis**
  - **Gap Analysis**
  - **Feasibility Analysis**
- **Technology Demonstrations**
- **Updated Regional Hazard Mitigation Protocol**

Source: Getty

6.a. NTX-REV: Key Takeaways - SWOT Analysis

Strengths	Weaknesses	Opportunities	Threats
• Existing Regional Plans/ Coordination, Mutual Aid Agreements • Current EV Charging and/or Resiliency Tech • Diverse Energy Sources	• Lack of Resiliency Planning for EVs in Current Plans • Increased Outages, Constraints, and Isolation of ERCOT Grid • Lack of Widespread Data on Resilient EV Chargers	• Regional Adoption of EVs and Resiliency Strategies • Ongoing Regional Planning, Studies, and Demo Projects • Funding Sources • Regional Coordination	• Rising Demand from Population and Economic Growth • Exposure to Severe Weather • Technological/Human Failures and or Vulnerabilities

6.a. NTX-REV: Key Takeaways – Critical Vehicles and Operations

How Likely a Vehicle Type is to be Used for Critical Operations

- **Heavy-Duty (HD) Pickup**
- **Class 4-8 Box Straight Trucks**
- **Medium- HD Multi Truck**
- Light-Duty Pickup
- Step Van
- Tractor / Semi
- Sedan
- Shuttle and School Buses
- Transit Bus

Key:
Green = High
Orange = Medium
Red = Low

Potential Critical Operations

- Water/electricity/utility repair
- Debris removal/hauling
- Towing equipment
- Transport of critical goods (food, medicine, etc.)
- Public safety (police or environmental services)
- Transport of residents for medical services and/or to shelters
- Evacuation of residents
- Road repair/salting

6.a. NTX-REV: Key Takeaways - Gap Analysis

Technology	Feasibility Level	Deployed in North Texas?	EV Charging Available	Barriers/ Considerations	Equivalent Conventional Strategy
Energy Storage Systems: Batteries/Fuel Cell	High	Yes	Yes	Limited power reserve; Limited to the location of installation	Conventional Fuel Generator or Fuel Reserves
On-Site Renewable Generation: Solar	High	Yes	Yes	No storage included	N/A
Generators: Gasoline, Natural Gas, Diesel	High	Yes; but not integrated with EV chargers	Unknown	Can be limited to the location of installation; air quality impacts	Same
Mobile Charging Unit	High	Unknown; but are commercially available	Yes	Limited power reserve	Wet-hosing/direct-to-truck fueling/mobile fueling
Microgrids	High	Yes	Unknown	Limited to the location of installation	N/A
On-Site Renewable Generation: Solar and ESS: Batteries	Medium- High; Depends on Solar Output	Yes	Yes	Typically limited to the location of installation; Size of solar installation impacts energy output	Conventional Fuel Generator or Fuel Reserves
On-site Renewable Generation (Wind)	Low	Yes	Unknown	Limited wind development within the NCTCOG area due to wide urbanization/ airports; No storage included	N/A
Mobile Charging (V2V and Battery Swapping)	Low	No	No	**V2V-** Limited real-world demonstrations **Battery swapping-** only beginning to be piloted in Japan	Wet-hosing/direct-to-truck fueling/mobile fueling
Self-Contained Power Systems (Remote Grids)	Low	No	No	Not relevant to NCTCOG not remote enough/does not have significant wildfire risk	N/A

6.a. Next Steps

NTX-REV Project Activities will Resume Upon Approval by DOE

Ongoing related activities supported by other funding include:

- **Regional Survey to Technology Vendor Stakeholders**
  - Availability of resilient EV Chargers in NCTCOG region
  - Technical specifications of resilient EV Chargers
  - Technical specifications of resiliency technologies
  - Accessibility (i.e. public or private)
- **Technology Vendor RFI: Conducting** an RFI/RFP to collect additional information on specifications of resiliency technologies

7. 2025 DFW National Drive Electric Month (NDEM)

Nationwide effort to provide education about electric vehicles (EVs) in a no-sales, brand-neutral environment

Potential 2025 DFW NDEM Events

Denton Arts & Auto

Organized by Denton Main Street Association; NDEM in collaboration with Texas Electric Vehicle Education Project and Charge Across Town

Date: **Saturday, September 13**

https://dentonmainstreet.org/pages/arts-and-autos

Cruzin' the Prairie Car and Truck Show

Organized by the Grand Prairie Historical Organization

Date: **Saturday, September 20**

https://gphotx.org/events/

Interested in displaying an electric vehicle at one of these events?

Email cleancities@nctcog.org

Check www.driveelectricdfw.org for updates

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