



North Central Texas
Council of Governments



Dallas-Fort Worth
CLEAN CITIES

REGIONAL EV INFRASTRUCTURE WORKING GROUP

Jared Wright, Maggie Quinn

October 18, 2023

Agenda

- NCTCOG Update
- Climate Pollution Reduction Grant Overview and Input
- EV Charger Reliability and Accessibility Accelerator Application
- Questions and Discussion



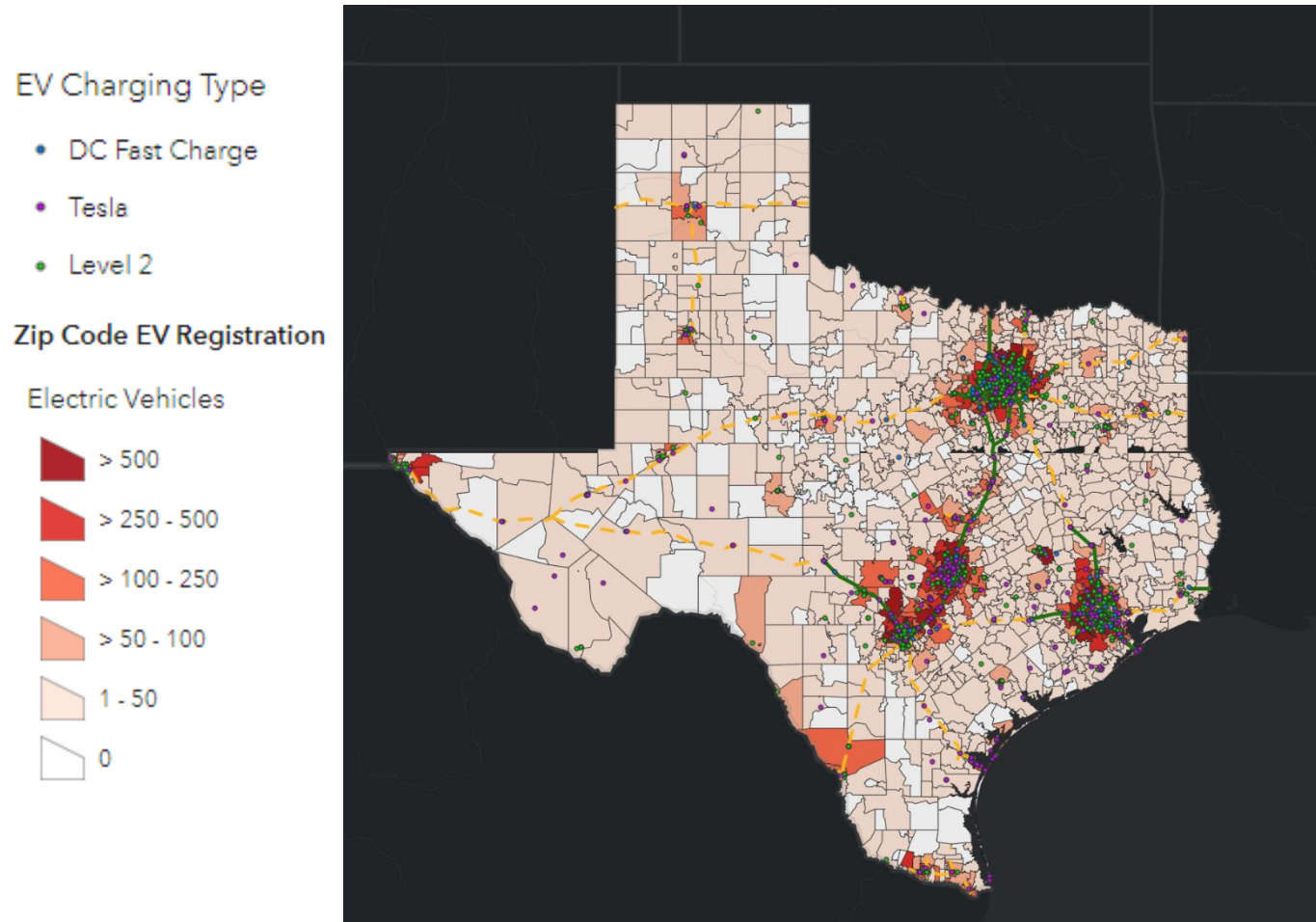
Working Group Priorities:

Coordinate EV Infrastructure efforts across North Texas

Provide guidance, resources, and collaboration opportunities to local governments and other members

*Working Group meetings are recorded and posted on www.dfwcleancities.org/events

Texas Data And Trends



Electric Vehicle (EV) Registration Data

www.dfwcleancities.org/evnt -> EVs and Texas

Region	October 2022	October 2023	Increase
Texas	151,198	226,740	50%
DFW	53,823	84,242	57%
Austin	31,840	44,552	40%
San Antonio	14,863	21,733	46%
Houston	35,455	55,135	56%

Charging Station Dashboard

https://txdot.mysocialpinpoint.com/tx_ev_plan

Charging Sites Statewide (includes Tesla):

2,710 Level 2

377 DC Fast

Upcoming Events

2023 DFW Clean Cities Fleet Recognition Awards - Wednesday, October 25, 1:30-3:00 pm

- DFWCC will be recognizing fleets for their efforts to improve air quality in the DFW region! In addition, DFWCC staff will provide information on available vehicle funding and the 2022 Annual Survey results.
- At NCTCOG offices (616 Six Flags Dr, Arlington, TX 76011) in Transportation Council Room

EV Fleet Manager Roundtable - Thursday, November 2, 1:00-2:30 pm

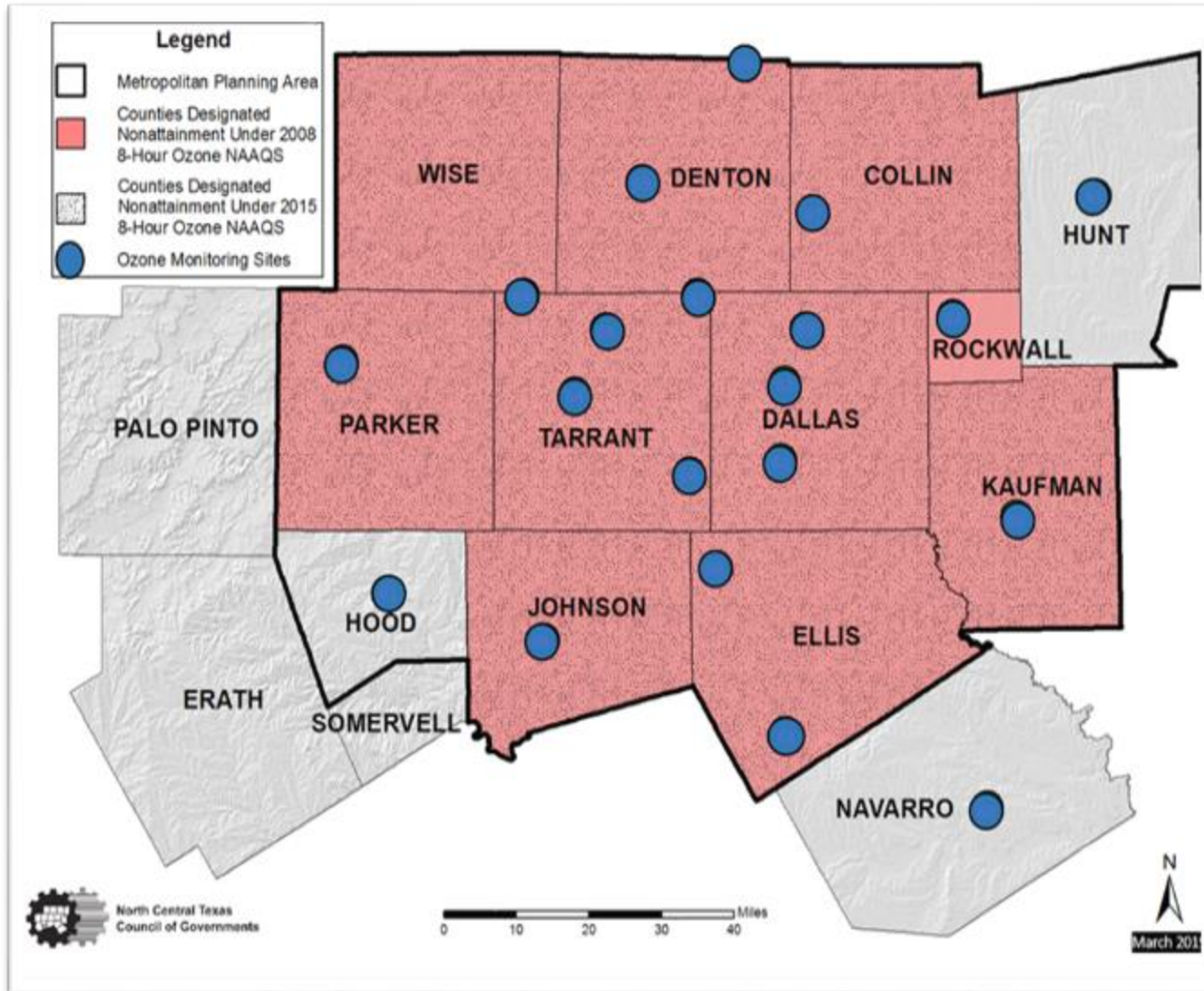
- The Fleet Manger Roundtables give fleet managers the opportunity to discuss topics and troubleshoot issues through peer-to-peer exchange. This meeting is intended for fleet managers, directors of transportation, and other staff involved in fleet management only.
- Virtual

Drop-in Fuels Webinar - Wednesday, December 6, 1:00-2:00 pm

- This webinar will provide an overview of the availability and benefits of renewable diesel, biodiesel, ethanol, and renewable gasoline. Don't miss out on this opportunity to learn how you can advance your fleet operations and reduce emissions today!
- Virtual

More information and registration at www.dfwcleancities.org/events

Who We Are



Regional Planning Agency



Metropolitan Planning Organization (MPO)



Local Clean Cities Coalition

Climate Pollution Reduction Grants Planning Grants Overview

North Central Texas Council of Governments (NCTCOG) received funds from the Climate Pollution Reduction Grants (CPRG) Planning Grants to develop a regional plan to improve air quality

NCTCOG will collaborate with local governments and the public to develop the following CPRG Planning Grants deliverables:

- Priority Climate Action Plan (PCAP) – Due March 1, 2024
- Comprehensive Climate Action Plan (CCAP) – Due Summer 2025
- Status Report – Due Summer 2027

Deliverables will be incorporated into the NCTCOG's **Dallas-Fort Worth Air Quality Improvement Plan**

Planning Grants: Priority Climate Action Plan

Task	Description	Expected Completion Date
Greenhouse Gas (GHG) Inventory	<ul style="list-style-type: none"> - Calculate the GHGs produced in the 16 counties in North Texas - Includes transportation, energy, agriculture, water, waste and materials management sectors 	January 2024
Quantified GHG Reduction Measures	<ul style="list-style-type: none"> - Identify short-term projects, programs, and policies to reduce GHG emissions - Quantify the benefits of projects, programs, and policies 	January 2024
Low-Income/Disadvantaged Communities Benefits Analysis	<ul style="list-style-type: none"> - Calculate the potential benefits to disadvantaged communities through the deployment of GHG reduction measures - Benefits can include lower energy costs, economic benefits, improved air quality, etc. 	February 2024
Review of Authority to Implement	<ul style="list-style-type: none"> - Review GHG reduction measures to ensure they can be implemented 	February 2024
Funding Analysis	<ul style="list-style-type: none"> - Identify funding to implement the GHG reduction measures 	February 2024

CPRG Implementation Grants Overview

\$4.3 billion available for general competition

- Individual awards will be between \$2 million and \$500 million
- Environmental Protection Agency (EPA) anticipates awarding 30-115 grants under this announcement

Tier	Grant Ranges	Funds Targeted for Each Tier	Anticipated Number of Grants to be Awarded
Tier A	\$200M - \$500M	\$2B	4-10
Tier B	\$100M - \$199M	\$1.3B	6-13
Tier C	\$50M - \$99M	\$0.6B	6-12
Tier D	\$10M - \$49M	\$0.3B	6-30
Tier E	\$2M - \$9.9M	\$0.1B	10-50

CPRG Implementation Grants

Eligible Applicants:

- Lead organizations that were direct recipients of CPRG planning grants
- State
- Municipalities
- Tribes

General competition designed to incentivize applicants to apply together

- Applications are scored based on the cumulative benefits the measures would create
- EPA will not award multiple grants to implement the same measure in the same location
- EPA anticipates awarding no more than two grants to applicants at the same level of government within a single jurisdiction (e.g., a single state, municipality, tribal area, or territory)

Implementation Grant Measures

Goals:

- Advance the transition towards a decarbonized economy
- Improve air quality
- Pursue innovative policies and programs that are replicable and can be “scaled up” across jurisdictions
- Benefit low-income and disadvantaged communities
- Incorporate high labor standards
- Support measures for which funding is unavailable or insufficient

Eligible Measures:

- New stand-alone measures
- Expansion of current measures that are already implemented
- New measures which needs additional funding

To be eligible for CPRG Implementation Grant funding a measure must be included in a Priority Climate Action Plan

EPA Notice of Funding Opportunities (NOFO)

Example Measures

Sector	Measures
Transportation Sector	<ul style="list-style-type: none">- Programs to increase electric vehicles (EV) adoption- Transportation pricing programs, such as parking and road pricing- Programs to reduce emissions at port and freight terminals- Update building and zoning codes to encourage walkable, bikeable, and transit-oriented development- Encourage mode shift from private vehicles to walking, biking, and public transportation- Programs and policies to encourage electrification and EV charging at multi-unit dwellings
Electric Power Sector	<ul style="list-style-type: none">- Implement Clean electricity and energy efficiency portfolio standards- Emission trading systems- Installation of renewable energy and energy storage on municipal facilities- Targeted incentives for renewable energy and energy storage systems on commercial and residential buildings- Development of community scale renewable energy, microgrids, and vehicle to grid in disadvantaged communities

EPA NOFO Example Measures

Sector	Measures
Buildings Sector	<ul style="list-style-type: none">- Adoption of up-to-date energy codes- Incentive programs for energy efficiency measures in existing government-owned commercial, and residential buildings- Incentive programs for energy-efficient appliances- Programs and policies to electrify government-owned, commercial, and residential buildings- Implementation of building energy performance management program- Programs to promote recovery and destruction of high-global warming potential hydrofluorocarbons used in existing appliances
Industrial Sector	<ul style="list-style-type: none">- Standards to address GHG emissions from industrial facilities- Programs to incentivize energy efficiency measures- Programs to expand the market for low-embodied carbon materials- Incentives to support adoption of low/no carbon fuels, electrification, renewable energy, and process improvements in industrial facilities

CPRG Transportation Workshop Measures

Focus Area	Measures
Clean Fuels and Fuel Efficiency	<ul style="list-style-type: none">- Installation of monitors to show emissions produced when idling in areas with high idling (EX: school zones)- Incentives for electric vehicles (EV) and e-bikes with rebates*- Installation of EV and alternative fuel infrastructure *- Identify and designate “low-emission corridors”
Sustainable Development	<ul style="list-style-type: none">- Implement the 15-minute city *- Improve sidewalks by adding solar panels or native trees*- Add more bike lanes and add barriers to bike lanes*- Expand the Safe Routes to Schools program*- Deploy “park once” programs*- Invest in cool/smart pavement

*EPA NOFO Example

CPRG Energy Workshop Measures

Focus Area	Measures
<p>Municipal Improvements</p>	<ul style="list-style-type: none"> - Incentivize tree planting, install trellises along walls, add landscape islands in parking lots, reduce concrete - Retrofit old industrial facilities to community gardens* - Create an energy management plan and conduct energy benchmarking/audits* - Install renewable energy sources and energy efficient equipment (double paned windows, insulation, etc.)* - Create a regional marketing campaign encouraging energy efficiency strategies*
<p>Electricity Generation and Industrial Facilities and Operations</p>	<ul style="list-style-type: none"> - Implement more renewable energy projects including enhanced geothermal and solar* - Utilize more battery storage for resiliency* - Incentivize local industrial facilities to conserve energy* - Target industrial facilities utilizing refrigerant buildings*
<p>Commercial and Residential Buildings</p>	<ul style="list-style-type: none"> - Update building codes* - Create community solar projects* - Incentivize residents to purchase renewable or zero-emission electricity from contractors vetted by local governments* - Fund the retrofits of older, energy inefficient homes*

Discussion Questions

- As a local government, would you be interested in participating in a regional application to the CPRG Implementation Grants?
 - Should the region submit one application with all measures?
 - What support do you need from NCTCOG to participate in a regional application?
- Are there other measures we should consider?
 - What other infrastructure EV infrastructure related measures could be included?
 - Are there EV infrastructure programs you would like to implement that current funding opportunities don't accommodate?

CPRG Contacts



Savana Nance
Senior Air Quality Planner
snance@nctcog.org



Lori Clark
Senior Program Manager &
DFWCC Director
lclark@nctcog.org



Chris Klaus
Senior Program Manager
cklaus@nctcog.org



Nick Van Haasen
Air Quality Planner
nvanhaasen@nctcog.org



Vivek Thimmavajjhala
Transportation System Modeler
vthimmavajjhala@nctcog.org



Jenny Narvaez
Program Manager
jnarvaez@nctcog.org

Electric Vehicle Charger Reliability and Accessibility Accelerator Program

Purpose: As a set-aside of the National Electric Vehicle Infrastructure (NEVI) Formula Program, this program will increase reliability of electric vehicle (EV) charging stations by funding repair and replacement of existing EV charging stations

Funding Source	Federal Highway Administration (FHWA)
Eligible Projects	Public or privately owned chargers listed as non-operational chargers on the Alternative Fuels Data Center (AFDC) by October 11, 2023 afdc.energy.gov
Eligible Applicants	State departments of transportation and local governments Note: Texas Department of Transportation (TxDOT) is not pursuing this funding
Available Funding	Approximately \$100 million available, FHWA anticipates all eligible projects will be awarded
Federal Share	Up to 80% of the total project cost, 20% match required
Station Requirements	Funded stations must be upgraded to NEVI Standards under 23 CFR 680

NEVI Standards

DCFC stations along Alternative Fuel Corridors must offer at least four network connected DCFC ports at a minimum power rating of 150kW per port simultaneously

Level 2 stations and locations not along Alternative Fuel Corridors must offer at least four network connected DCFC or Level 2 charging ports capable of charging simultaneously

Charging stations must display price before initiating in session in \$/kWh and cannot change during a session

Charging stations must include a contactless payment method that accepts all major debit and credit cards and the option to pay by toll-free phone number or SMS message system

Charging stations must meet interoperability standards regarding communication protocols between vehicles and charging networks

Unavailable Stations by City

City	Number of Unavailable Ports
Addison	2
Aledo	1
Allen	2
Arlington	6
Aubrey	1
Bedford	1
Carrollton	1
Celina	1
Colleyville	2
Coppell	2
Dallas	76
Denton	2

City	Number of Unavailable Ports
Duncanville	2
Fairview	2
Farmers Branch	1
Fort Worth	35
Frisco	10
Grand Prairie	2
Grapevine	7
Highland Village	2
Irving	12
Lewisville	3
Little Elm	1
McKinney	2

City	Number of Unavailable Ports
Mesquite	4
Murphy	4
North Richland Hills	4
Plano	21
Richardson	6
Rockwall	1
Rowlett	2
Sachse	1
Southlake	2
Sunnyvale	2
Westlake	2
Westworth Village	1

Two additional out of region stations considered for inclusion are a station along I-35 in Waco, and one along SH-80 in Wills Point

Application Approach

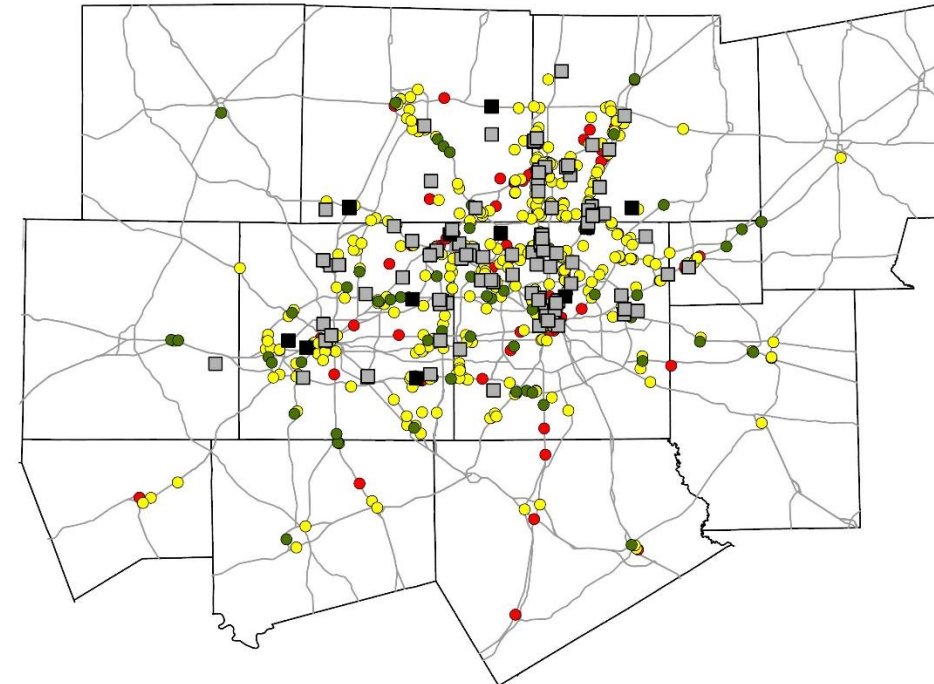
Incorporate North American Charging Standard (NACS) Connector for Consistency with Texas EV Infrastructure Plan

Coordinate with host cities and charging station networks to determine warranted repair needs

Propose to Prioritize Sites that:

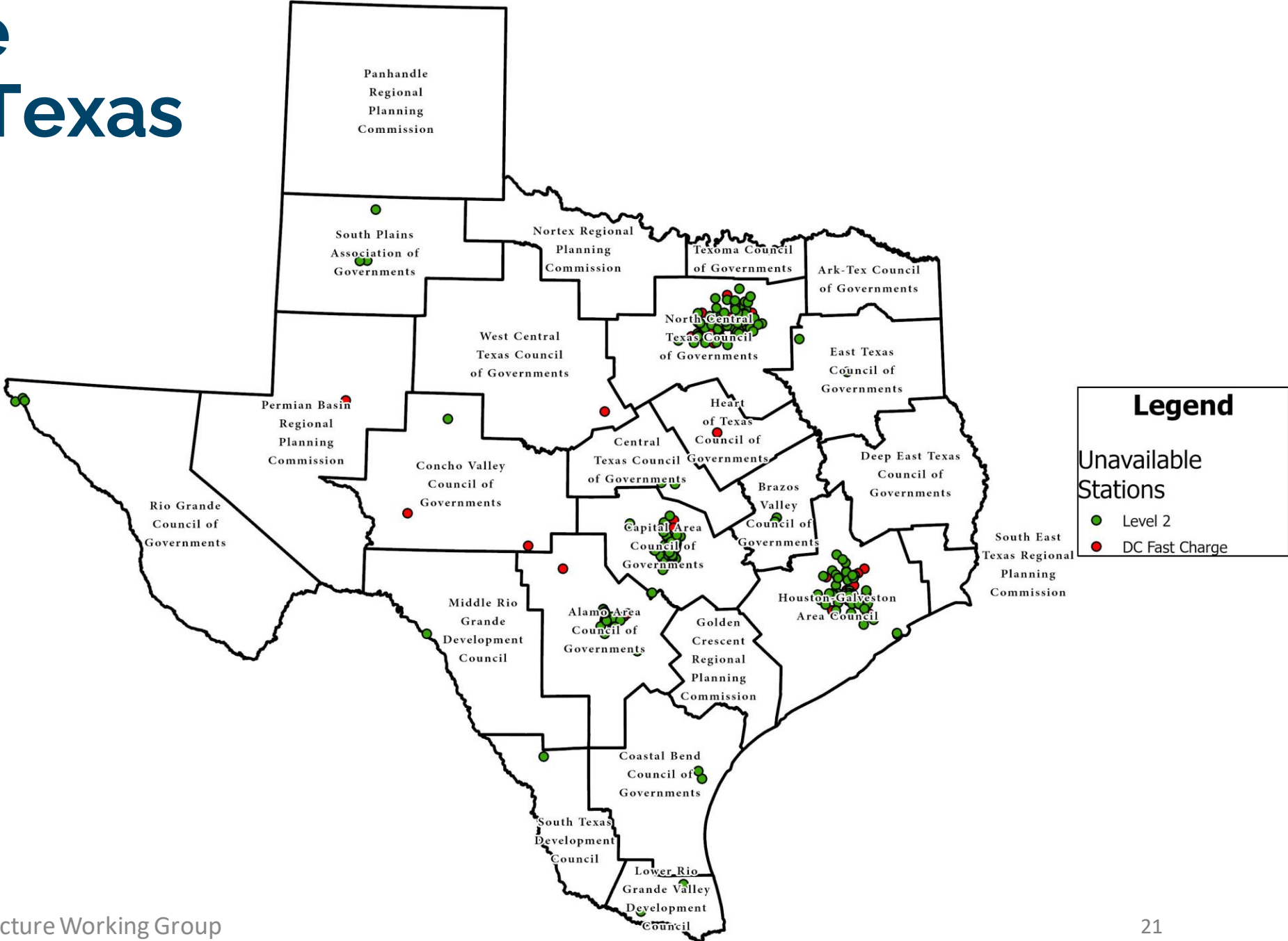
- Are not in proximity to existing charging stations
- Increase access in key areas such as multi-family properties, grocery stores, and retail locations
- Connect the region to other areas

Level 2 and DCFC Charging Stations in Metropolitan Planning Area



Legend	
Charging Stations	Unavailable Charging Stations
● DC Fast Charge	■ DC Fast Charge
● Level 2	■ Level 2
● Tesla	

Unavailable Stations in Texas



Discussion Questions

- Is anyone planning on applying?
- Do local governments have any input regarding the unavailable charging stations within their areas?
 - We can follow-up with anyone regarding the specifics of stations in their area
- What attributes of a station's location should be prioritized when selecting sites if all cannot be funded?
 - Site usage, site location (multi-family housing, retail, workplace charging, etc.), proximity to major roadways, proximity to other charging stations, charging speed

Contact Us



Lori Clark
Senior Program Manager
& DFWCC Director
lclark@nctcog.org



Jared Wright
Senior Air Quality Planner
jwright@nctcog.org



Joslyn Billings
Air Quality Planner
jbillings@nctcog.org



Maggie Quinn
Air Quality Planner
mquinn@nctcog.org



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cleancities@nctcog.org



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