



NTX-REV Project Overview Information Session

NCTCOG Transportation and Emergency Preparedness Department
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Agenda

Project Overview

NTX-REV Stakeholders

NTX-REV Plan Key Takeaways

Next Steps



Project Overview



Why: Increasing EV Adoption

Electric Vehicle (EV) Registration Data

dfwcleancities.org/evnt -> EVs and Texas

Region	Oct 2025	Oct 2026	Increase
Texas	426,495	528,731	24%
Dallas–Fort Worth (DFW)	157,277	191,071	21%

1.97% of registered vehicles in Texas are EVs

Charging Ports Statewide (includes Tesla):

- 7,323 Level 2
- 5,671 DC Fast

Example EVs in Critical Operations



Murphy PD Tesla Model Y
Photo Source: Murphy Monitor
(press conference at MPD)



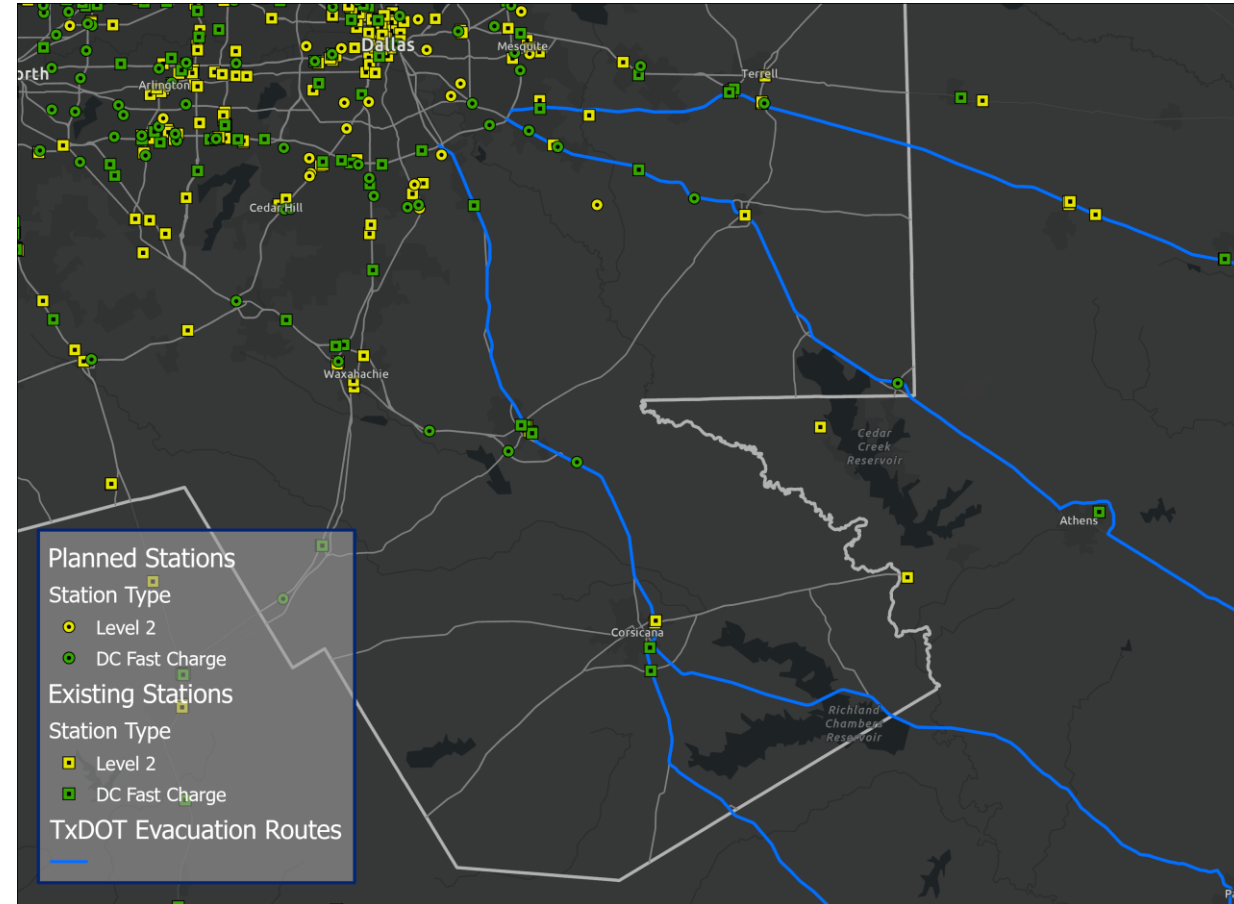
City of Plano Electric Dump Truck
Photo Source: City of Plano



Why: EVs are Vulnerable to Power Outages

Scope	Number of Power Outages	Duration
2014-2025, Statewide	238,385 events statewide	Average: 3.2 hours Longest: 258 hours
2014-2025, Collin County	2,971 events	Average: 2.3 hours Longest: 120 hours
2014-2025, Dallas County	9,047 events	Average: 2.7 hours Longest: 211 hours
2014-2025, Denton County	1,680 events	Average: 2.2 hours Longest: 110 hours
2014-2025, Tarrant County	7,936 events	Average: 2.4 hours Longest: 177 hours

Sources: [Power Outage History by ZIP Code](#) | [PowerOutageHistory](#) | [PowerOutageHistory](#)
FERC Press Release: [Final Report on February 2021 Freeze Underscores Winterization Recommendations](#) | [Federal Energy Regulatory Commission](#)



Source: NCTCOG



Project Overview

Background:

The Department of Energy awarded \$1.5 million to develop a plan to improve resilience of electric vehicle (EV) charging

Goal:

Ensure EVs can perform critical operations (e.g. evacuations, vehicles serving critical functions) during grid outages

Deliverables:

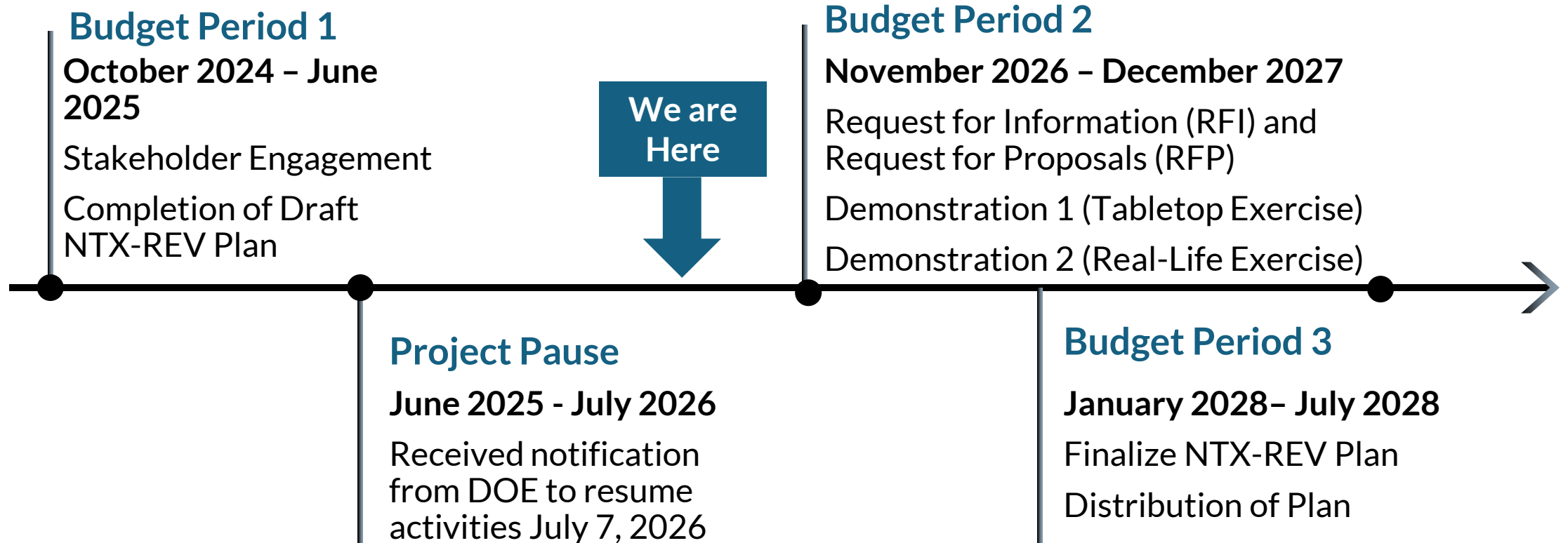
1. Draft North Texas Resilient Electric Vehicle (NTX-REV) plan
2. Completion of two demonstration projects to test resiliency technologies
3. Final NTX-REV plan and update Regional Hazard Mitigation Planning Guidance



Source: Getty



Project Timeline



Budget Period 2 Demonstrations

1. Tabletop Scenario

- Discussion-based emergency preparedness scenario activity
- Explores electrical transportation asset conducting a critical operation during a grid outage
- Evaluates effectiveness of the strategies identified in the plan
- Project Partners must participate in at least one Tabletop Scenario to participate in Live Technology Demonstration

2. Live Technology Demonstration

- Simulates an outage by disconnecting grid power from a charging station
- Tests the ability of off-grid technology to power EVs
- Will be conducted by Project Partners, NCTCOG, and Technology Vendor



NTX-REV Stakeholders



NTX-REV Stakeholders

Project Team

Coalition of interested stakeholders and Project Partners, led by NCTCOG. Supports the Project by:

- Providing input to plan
- Engaging stakeholders
- Distributing or incorporating NTX-REV Plan recommendations

Project Partners

Entities who participate in the Demonstration Project by:

- Sharing resources/assets/data
- Participating in the Demonstration

Technology Vendor*

Entity who NCTCOG leases resiliency technology from for Demonstration 2

*Technology Vendors can join Project Team as well, but will be removed from certain conversations regarding technology procurement



NTX-REV – How to Get Involved

Project Team

Go to:

www.dfwcleancities.org/activities/planning-resilient-ev-charging

Complete stakeholder form by October 31, 2026!

Project Partners

Sign up to join the Project Team

Let NCTCOG know if you want to be a Project Partner!

Technology Vendor*

Respond to NCTCOG
Request for
Information on
Resilient EV
Infrastructure*

Respond to NCTCOG
Request for Proposals
(RFP) for technology
demonstrations*

** Technology vendors who are part of the Project Team will not participate in discussions on RFI/RFP*



Technology Vendor Guidelines

To ensure technology vendors can submit to NTX-REV RFI and RFP, the following guidelines will be in place until the **completion of the technology demonstration in BP2 or until determined by NCTCOG**:

1. *Technology Vendors will not give input on any criteria which might be used for the RFI/RFP, including metrics to measure success, what technology to use for the demonstration, etc.*
2. *Vendors will be kept separate from the rest of the Project Team until after RFP awardee(s) have been selected.*

Procurement/contracting opportunities from NCTCOG, including the NTX- RFI and RFP, will be posted through Bidnet Direct.

To be notified of opportunities:

- Sign up in the Transportation Department Vendor Database at North Central Texas Council of Governments - Requests for Proposals, Qualifications, and Information (nctcog.org) under “air quality/energy planning” and/or “alternative fuels”
- Register as a vendor in Bidnet Direct at www.bidnetdirect.com/Texas/nctcog



Draft NTX-REV Plan Key Takeaways



Summary of Budget Period 1

Research and Engagement:

- Established Project Team (i.e. Project Partners and Stakeholders), representing 40+ entities and 70+ individuals and hosted 5 meetings
- Assessed existing regional resilience plans and pilot projects
- Held 8 presentations/meetings with other groups/entities to collect input and provide information
- Developed inventory of available resiliency technologies to be used off-grid



NTX- REV Draft Plan

- Inventory of resiliency technologies/strategies
- Key critical transportation assets in region
- Strengths, Weaknesses, Opportunities, and Threats (SWOT) Analysis
- Gap Analysis
- Identification of feasible resiliency strategies for region



SWOT Analysis

Strengths

- Existing EV charging and/or resiliency technologies
- Existing city and county all-hazard emergency management plans and resilience plans
- Diverse energy sources

Weaknesses

- Lack of planning for EV charging and resiliency in existing plans
- Jurisdictional silos
- Grid isolation/ERCOT grid vulnerabilities
- Lack of data on existing EV charger resiliency

Opportunities

- Adoption of EVs
- Ongoing planning/projects/studies/working groups/committees
- Funding opportunities

Threats

- Rising electricity demand
- Natural disasters/severe weather events
- Technological failures
- Global supply chain dependencies



Critical Transportation Assets

High Likelihood of Use for Critical Operations

Heavy-Duty Pickup Trucks
Box Trucks/Step Vans
Medium-Duty Multipurpose Trucks and Semis
Light-Duty Vehicles/Sedans/Pickups (by municipalities or other organizations)

Medium Likelihood of Use for Critical Operations

Light-Duty Vehicles/Sedans/Pickups (including evacuation along routes)
Shuttle Buses

Low Likelihood of Use for Critical Operations

Full-size Transit/School Buses

**EV Chargers are also
Transportation Assets and
Will be Evaluated for
Resiliency Needs in Critical
Areas (Evacuation Routes
and/or Freight
Developments)**



Resiliency Technology Feasibility Assessment

Technology Category	Technologies	Feasibility Assessment
Energy Storage Systems (ESS)	- Batteries - Hydrogen Fuel Cells	Likely
On-Site Renewable Generation	Solar	Likely
On-Site Renewable Generation	Wind	Not Likely
Generators	- Gasoline - Propane - Natural Gas - Diesel	Likely
Mobile Charging	- Mobile Charger with ESS/Generator - Battery Swapping	Likely
Mobile Charging	Vehicle to Vehicle Charging	Not Likely
Self-Contained Power Systems	Microgrid	Likely
Self-Contained Power Systems	Remote Grids	Not Likely



Next Steps

Project Team Next Steps

- Complete the [Interest Form](#) by October 31, 2026
- Review Draft NTX-REV Plan and Provide Feedback by November 12, 2026
- Notify NCTCOG if interested in becoming Project Partner
- Attend future Stakeholder Meetings

Planning Resilient EV Charging in
North Texas Stakeholder Interest
Form



NCTCOG Next Steps

- Revise Draft NTX-REV Plan to accommodate for year-long pause and input
- Publish the Technology Vendor RFI (expected Late October/Early November)
- Plan for Budget Period 2 workshops and engagement
- Plan for Budget Period 2 Demonstrations

Questions?

Contact Us



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[Planning Resilient EV Charging in Texas | DFWCC](#)



[Dallas-Fort Worth Clean Cities: LinkedIn](#)



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