Utilizing Federal Funds for EV Infrastructure

Moderator: Louisiana Representative Barbara Freiberg, Women In Government State Director

Lori Pampell Clark, Senior Program Manager, Clean Fleet and Energy Programs, Transportation Department of the North Central Texas Council of Governments and Director, Dallas-Fort Worth Clean Cities Coalition
Using Federal Funds for EV Infrastructure: It Takes a Village

Lori Clark
Senior Program Manager, Clean Fuels & Energy Program, NCTCOG Transportation Director, Dallas-Fort Worth Clean Cities Coalition
November 4, 2023
2023 Leadership & Innovation Summit
What is EV Infrastructure?

1 Station Location

3 EVSE Ports

4 Connectors

Figure 1. EV charging infrastructure hierarchy.

Source: AFDC (2023d)
Electrification Transition Goals of Manufacturers

(% of Sales) | Data as of 9/26/2023

*This list is not comprehensive, and manufacturers are not endorsed by NCTCOG

- **Audi**: 100% by 2026 (Only New Models) | 100% by 2033
- **BMW**: 50% | 20%
- **Ford**: 40% Globally (100% in Europe) | 30% (Includes FCEVs)
- **General Motors**: 50% | 40% (Includes FCEVs)
- **Honda**: 40% (Includes FCEVs) | 80% (Includes FCEVs)
- **Hyundai**: 30% (Includes FCEVs) | 80% (Includes FCEVs)
- **Kia**: 30% Globally | 55% Globally (100% in Europe)
- **Mercedes-Benz**: 50% (In Select Markets) | 100% (Includes FCEVs)
- **Nissan**: 55% Globally (100% in Europe) | 50% in US (100% in Europe)
- **Stellantis**: 50% in US (100% in Europe) | 50% Globally
- **Subaru**: 50% | 15% (70% with Hybrids)
- **Toyota**: 15% (70% with Hybrids) | 50% Globally
- **Volkswagen**: 20% | 50% | 100%
- **Volvo**: 50% | 100% | 100% (Includes FCEVs)

FCEV – Fuel Cell Electric Vehicle
PHEV – Plug-In Hybrid Electric Vehicle
ICE – Internal Combustion Engine

- % of sales that do not use ICES
- Electrification plans includes hybrids or only applies to new models
- OEM has phased out ICES in a region other than the United States
- Carbon neutrality goal Signed UN COP26 (No ICE Sales by 2035)

NCTCOG/DFW Clean Cities 2025 2030 2035 2040 2045 2050
The State of EV Adoption

Texas' Electric Vehicle (EV) Registration Data
www.dfwcleancities.org/evnt ->
EVs and Texas

<table>
<thead>
<tr>
<th>Region</th>
<th>October 2022</th>
<th>October 2023</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Texas</td>
<td>151,198</td>
<td>226,740</td>
<td>50%</td>
</tr>
<tr>
<td>DFW</td>
<td>53,823</td>
<td>84,242</td>
<td>57%</td>
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<tr>
<td>Austin</td>
<td>31,840</td>
<td>44,552</td>
<td>40%</td>
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<tr>
<td>San Antonio</td>
<td>14,863</td>
<td>21,733</td>
<td>46%</td>
</tr>
<tr>
<td>Houston</td>
<td>35,455</td>
<td>55,135</td>
<td>56%</td>
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</tbody>
</table>

https://afdc.energy.gov/transatlas
Trends in Infrastructure Deployment

Over 160,000 Charging Ports Documented by Alternative Fuels Data Center

Over Past Quarter:

- Accelerating growth in number of high-speed Direct Current (DC) Fast Charge Stations

- Highest Increase of DC Fast Chargers is in Rural Areas

Infrastructure Availability vs Need

Executive Order 14037 Requires 50% of all new light-duty vehicles sold in the U.S. be zero-emission by 2030

The National Renewable Energy Laboratory estimates 33 Million EVs by 2030

Projects 28 Million EV Ports Needed
- 1.2 Million Public
- 26.8 Million Private
  - Workplace
  - Multifamily Fleets


Using Federal Funds for EV Infrastructure
## Overview of Federal EV Infrastructure Funding

<table>
<thead>
<tr>
<th>Enabling Legislation</th>
<th>Program</th>
<th>Funding</th>
<th>Structure</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bipartisan Infrastructure Law</td>
<td>National EV Infrastructure Formula Program</td>
<td>$5 Billion</td>
<td>Formula</td>
<td>Plans Submitted and Implementation Underway</td>
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<tr>
<td>Bipartisan Infrastructure Law</td>
<td>Charging and Fueling Infrastructure Program</td>
<td>$2.5 Billion</td>
<td>Competitive</td>
<td>2 Fiscal Years Competed, Awards Pending; 3 Years Remaining</td>
</tr>
</tbody>
</table>

53 Additional Programs for Urban Areas

80 Additional Programs for Rural Areas

See [www.driveelectric.gov](http://www.driveelectric.gov) -> About -> Funding Opportunities

Clean Cities Coalition Network

A U.S. Department of Energy partnership to advance clean transportation nationwide

Over 75 Coalitions representing over 80% of the population

The Clean Cities technology portfolio includes all alternative fuels, including electrification

https://cleancities.energy.gov
Metropolitan Planning Organizations

402 Metropolitan Planning Organizations (MPOs) nationwide

Serve all urbanized areas of 50,000 or more to carry out the metropolitan transportation planning process

www.planning.dot.gov/mpo/

Source: Texas Association of MPOs (TEMPO);
www.texasmpos.org/texas-mpos/
Key Challenges to Successful Projects

Lack of Coordination Among Key Players

Regulatory Constraints
- PUC restrictions on utilities’ roles/programs
- Inconsistency at the local government level

Local Opposition/Pushback
- Inequitable Access
- Politicization of Electrification

Engaging Justice 40 Communities and Ensuring Benefits can be Realized

Lack of Readiness

Using Federal Funds for EV Infrastructure
Policy Best Practices and Needs

Begin Planning Early, Even if it Seems Premature
- Engage Across Stakeholder Groups Proactively
- Incorporate Equity Considerations at the Outset
- Have Projects Planned BEFORE Federal Funding is Released

Build Consistency in Regulations across Metropolitan Areas
Review Local Regulations to Remove Unintended Barriers and Streamline Installations
- Permitting
- Zoning and Land Use Codes
- EV-Ready or EV-Capable Building Codes/Construction Standards

Develop Clarity and Address Rates Under Public Utility Commission Rules

Plan Beyond Public Access Passenger Vehicle Chargers
- Multifamily and Workplace Charging
- Medium- and Heavy-Duty Freight Vehicles

Using Federal Funds for EV Infrastructure
Key Resources

Local Clean Cities Coalitions: [https://cleancities.energy.gov](https://cleancities.energy.gov)
Local Boots-on-the-Ground Champions and Networkers

- Deployment Toolkits
- Funding Opportunities
- Maps of Stations, Designated EV Corridors, and Justice 40 Overlays

Transportation Energy Institute EV Council:
[https://www.transportationenergy.org/councils/electric-vehicle-council](https://www.transportationenergy.org/councils/electric-vehicle-council)
- Reports and Research
- A Best Practice Guide for EVSE Regulations

Atlas EV Hub: [www.atlasevhub.com](http://www.atlasevhub.com)
- Policy Dashboard
- Market Information

Using Federal Funds for EV Infrastructure
Thank You!

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