

# Interstate Highway 45 Zero-Emission Vehicle Corridor Plan

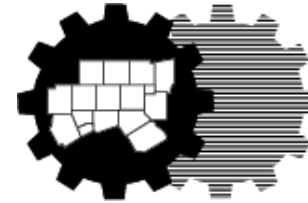


Dallas-Fort Worth  
CLEAN CITIES

May 18, 2020

Hydrogen Webinar Series Part Two

Bethany Hyatt



North Central Texas  
Council of Governments

CLEAN CITIES COALITION NETWORK



# Response To FHWA Alternative Fuel Corridors Deployment Plan Goals

## **FHWA Goals:**

- Develop an Infrastructure Deployment Plan
- Transition the Corridors from “Pending to Ready”
- Identify Public-Private Partnerships

## **NCTCOG Proposal:**

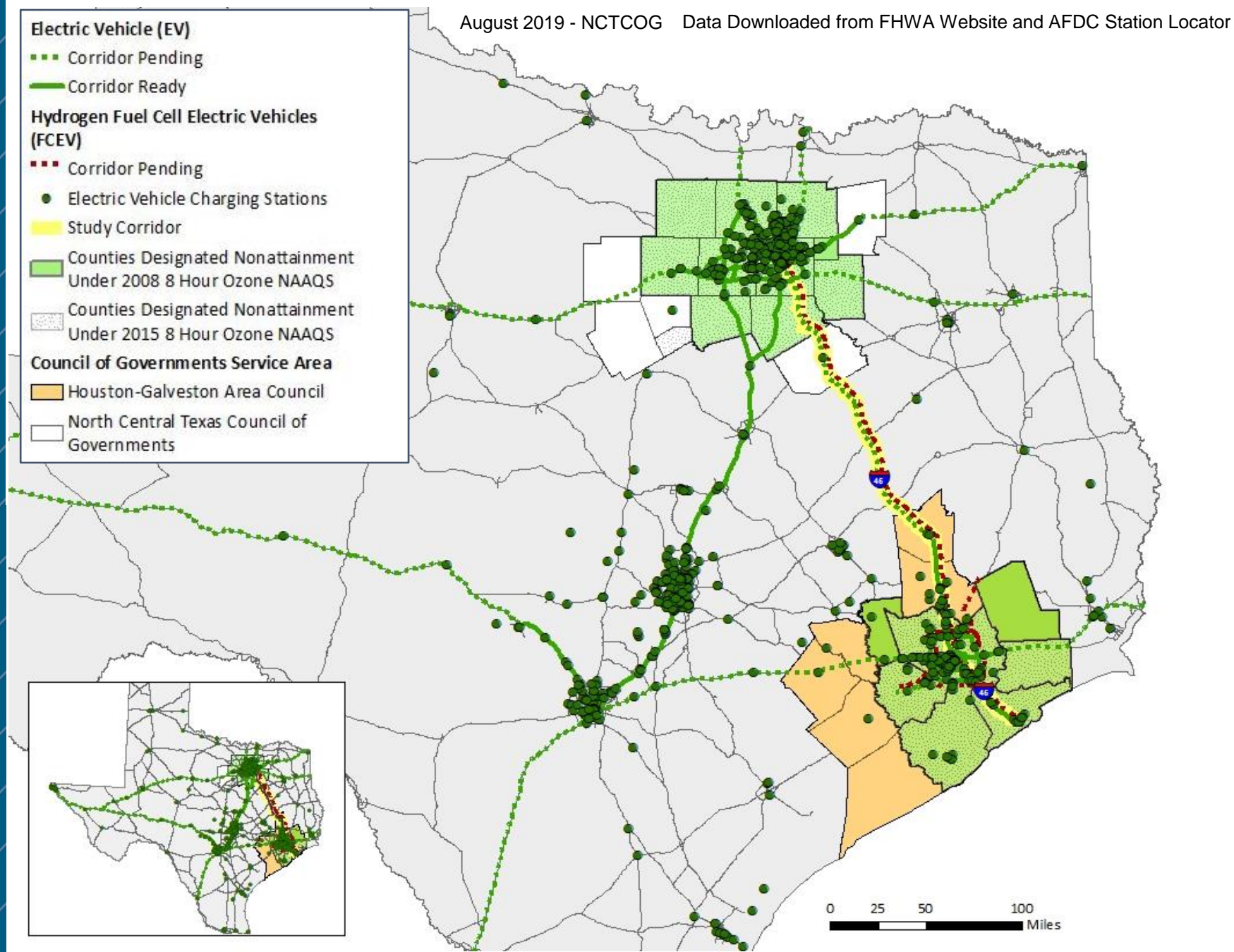
- Develop Electric and Hydrogen corridor along IH-45
- Expand Infrastructure Needs Suitable for Medium and Heavy-duty Electric Trucks and Buses
- Support Future Strategic Initiatives in the Corridor, such as AV Technology Deployment and Truck Platooning

# Corridor Profile

290-Mile Corridor

Nearly half of truck freight in Texas is moved through this corridor.

Over 10,000 ton-miles of cargo traveled between Dallas and Houston in 2017, totaling over \$62.6 billion.



# Current State of Electric Vehicle Supply Equipment (EVSE)

One Gap Remaining to Meet “Corridor-Ready” Status per FHWA Criteria: 111 Mile Gap from Ennis to Madisonville

<https://afdc.energy.gov/stations/#/find/nearest>

Public Stations | Advanced Filters | Corridor Measurement

Use this tool to measure the driving distance along Interstate Highways between stations that meet the criteria under the Federal Highway Administration's *Alternative Fuel Corridors Program*. Explore more [resources](#) for nominating corridors.

Texas | Electric | 50 miles between stations allowed

Starting Station  
Walmart 286 - Ennis, TX  
700 E Ennis Avenue  
Ennis, TX 75119  
0.5 miles to Interstate Highway

Ending Station  
Walmart 446 - Madisonville TX  
1620 East Main St null  
Madisonville, TX 77864  
1.2 miles from Interstate Highway

**111 miles**  
driving distance between the stations

See Route Directions

DC Fast Chargers With Connector Types: ChAdeMO, CCS

**Possible Focus Areas for Additional Sites:**

1. Corsicana, Texas
2. Fairfield, Texas
3. Buffalo, Texas
4. Centerville, Texas

iPhone App for U.S. stations | Android App for U.S. stations | Developer APIs | Submit New Station | About the Data

# Current State of Hydrogen Fueling Stations

Public Stations

Advanced Filters

Corridor Measurement

<https://afdc.energy.gov/stations/#/find/nearest>

Use this tool to measure the driving distance along Interstate Highways between stations that meet the criteria under the Federal Highway Administration's *Alternative Fuel Corridors Program*. Explore more resources for nominating corridors.

Texas

Hydrogen

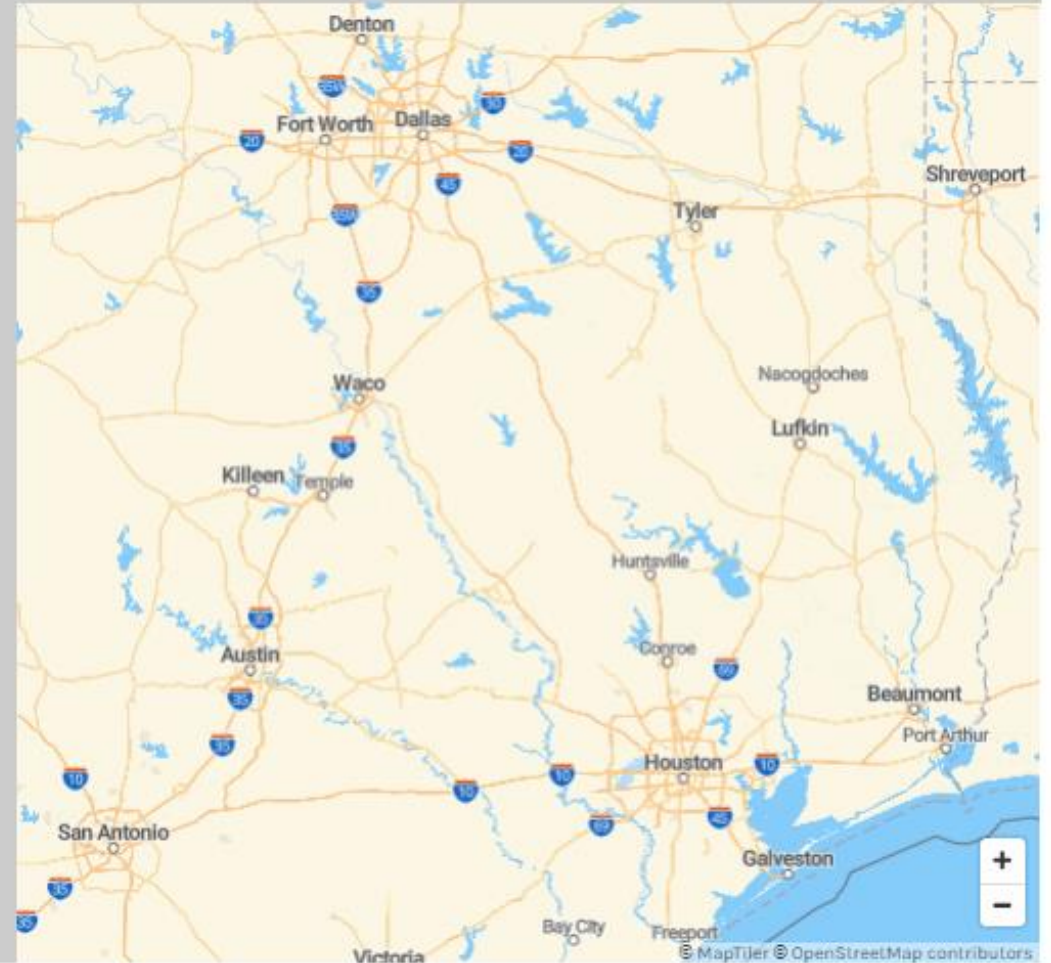
100 miles between stations allowed

Starting Station

Select a station on the map to choose your starting point.

Ending Station

Select a station on the map to choose your ending point.




 iPhone App  
for U.S. stations

 Android App  
for U.S. stations

 Developer APIs

 Submit New Station

 About the Data

# Data Available From NCTCOG and H-GAC



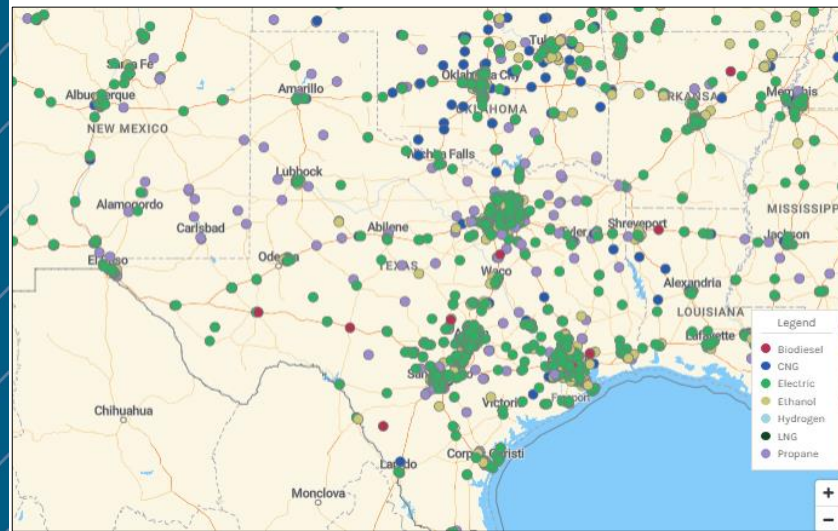
## Demographics

Population Counts and Characteristics

## Travel Volumes/Patterns:



## Station Locations:



## Freight Flows:

Freight Analysis Framework (FAF) integrates data from a variety of sources to create a comprehensive picture of freight movement among states and major metropolitan areas by all modes of transportation.

[https://ops.fhwa.dot.gov/freight/freight\\_analysis/faf/](https://ops.fhwa.dot.gov/freight/freight_analysis/faf/)

# Through the Plan, NCTCOG Will...



**Identify Best Technologies suitable for vocational needs**



**Identify best market development opportunities**



**Develop and convene stakeholder groups including:**

*TxDOT*

*Utilities*

*Fleets*

*Fueling providers*

*Consumer interest groups*



**Solicit infrastructure needs from industry**

# Deliverables



Stakeholder Lists



Stakeholder Meetings



Corridor Workshops



Case Studies



Infrastructure Development Plan



# Stakeholder's Role

- Identify Optimal sites
- Solicit Infrastructure Needs and Criteria
- Identify and Contact Property Owners
  
- Identify Best Technologies Suitable for Vocational Needs
- Evaluate Commercialization Status of Suitable Vehicles
- Access Timeframe for Commercial Availability
  
- Identify and Engage End-User Fleets
- Match User Needs to Vehicle Availability
- Assess Potential Vehicle Adoption
  
- Identify and Prioritize Non-Monetary Policies/Incentives
- Assess Existing and Needed Monetary Incentives
- Develop Engagement Plan



Infrastructure Development



Vehicle Availability



Customer Identification



Policy/Incentives

# IH-45 ZEV Corridor Stakeholder Survey

In 2019, the Federal Highway Administration (FHWA) released a solicitation for a Alternative Fuel Corridors Deployment Plan. The North Central Texas Council of Governments submitted a proposal to develop a Zero-Emission Vehicle corridor along Interstate Highway 45 from Dallas to Houston. This plan involves building infrastructure for both electric and hydrogen fuel cell electric vehicles with an emphasis on medium and heavy duty trucks and buses.

NCTCOG is seeking stakeholders representing fuel providers, fleets, infrastructure developers, fuel associations, government agencies, utilities, and interest groups to inform development of the infrastructure plan. Stakeholders are needed to support both plan elements - battery electric vehicle charging, and fuel cell electric vehicle fueling.

<https://forms.office.com/Pages/ResponsePage.aspx?id=vH5eL7Aivk-TTKq9204psdQlerilutVJstC1lh81MHtUM1BZQUdSTzRINVZWTERSVDNZTkNMUjdMUCQIQCN0PWcu>

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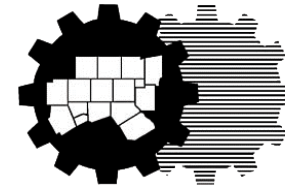
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