

Regional Electric Vehicle Infrastructure Opportunities

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North Central Texas Council of Governments
August 2021



Dallas-Fort Worth
CLEAN CITIES

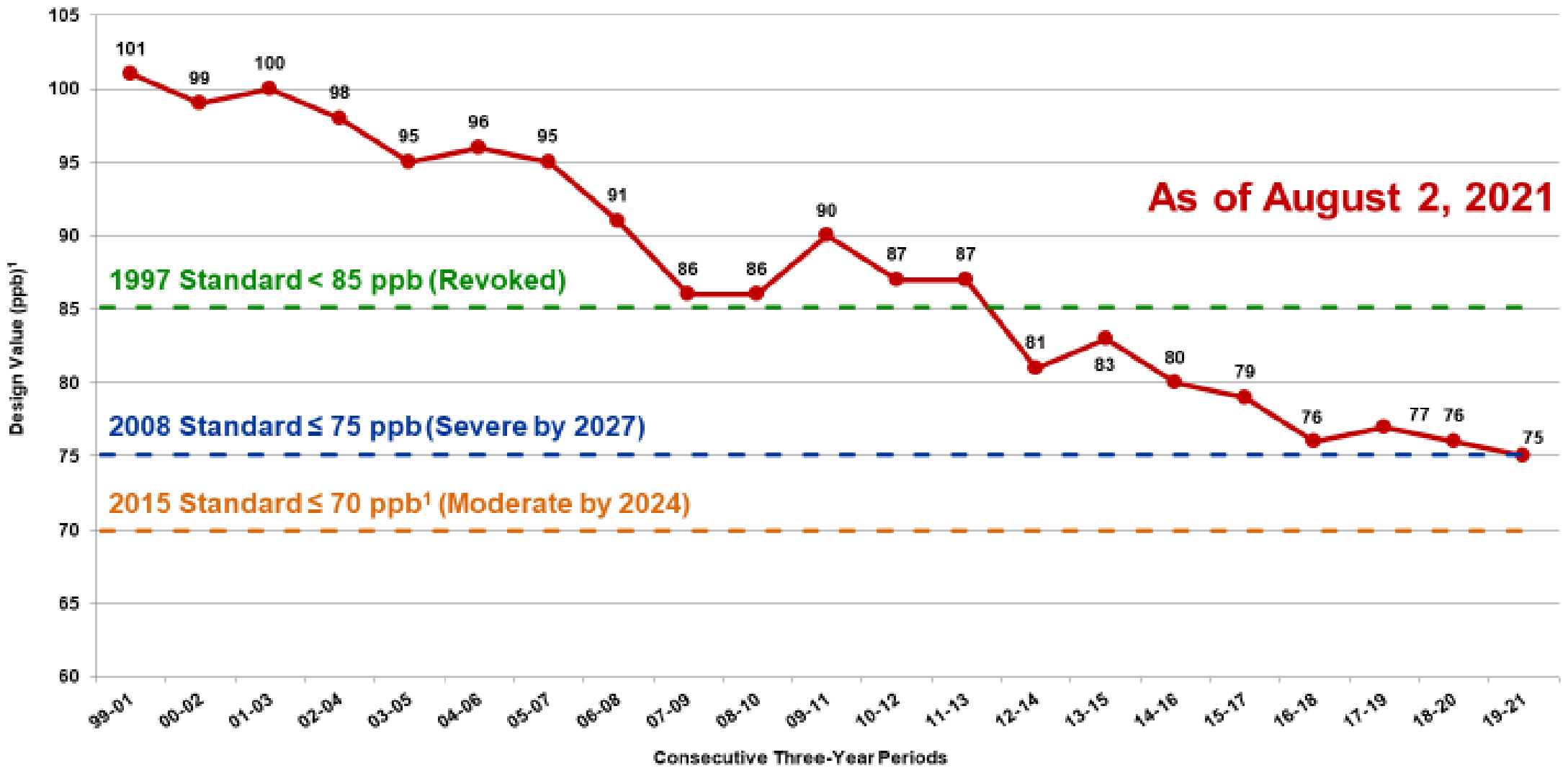


North Central Texas
Council of Governments

August Public Meeting



8-Hour Ozone NAAQS Historical Trends

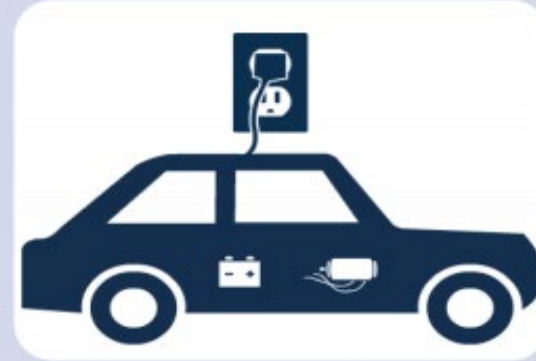
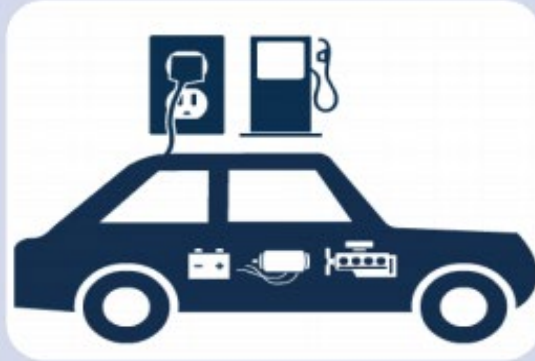
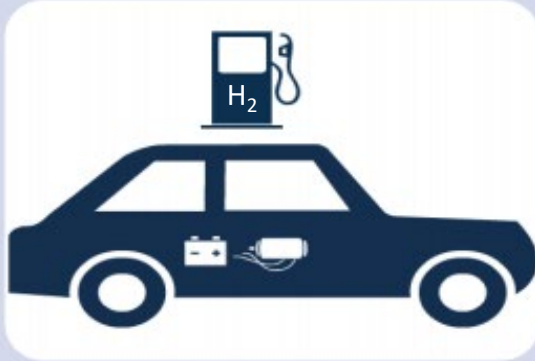


¹Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the Design Value (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is equal to or less than 70 parts per billion (ppb).

Source: NCTCOG TR Dept

Electric Vehicles produce no emissions, so higher EV adoption rates can help decrease ozone trends

State of EVs in Texas



**Fuel Cell
Electric
Vehicle
(FCEV)**

**Plug-In
Hybrid
Electric
Vehicle
(PHEV)**

**Electric
Vehicle (EV)
or Battery
Electric
Vehicle
(BEV)**

48,495

EV's in Texas as of
August 2021

Texas Registered
EV Breakdown:

27% PHEV

73% BEV

Electric Vehicles by the Numbers



17,389

Electric Vehicles in North Texas in August 2021



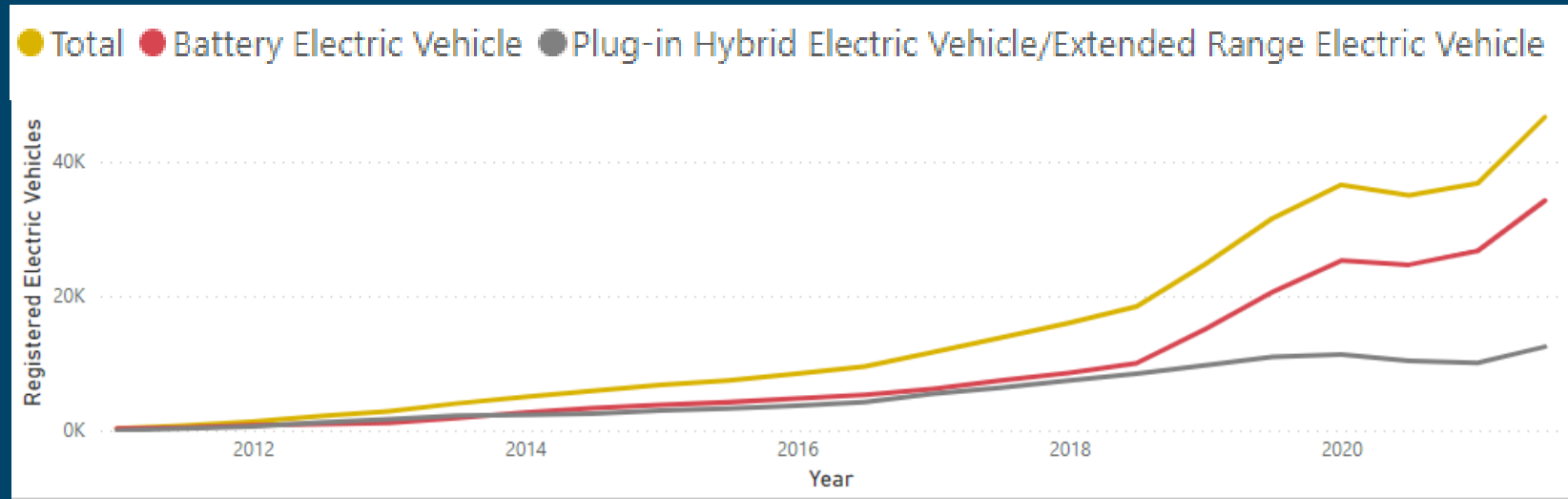
0.68%

EV percentage of total vehicles in North Texas in August 2021








32.5%

Average Annual Growth Rate of EVs in North Texas from 2015-2020



Levels of EV Charging Infrastructure

Type	Connector	Range per Hour of Charging Time	Typical Station Cost with Installation
Level 1	 J1772 charge port	2 to 5 miles	-
Level 2 2.5 to 22 kW* (Typical 7.2 kW)	 J1772 charge port	12 to 60 miles	\$1,100-\$19,000**
DC Fast Charge	   CCS charge port CHAdeMO charge port Tesla charge port	180 to 240 miles	\$23,000-\$90,000

*Not all EVs can charge at faster Level 2 Speeds

**22kW Level 2 EVSE may require three-phase power installation and increase costs

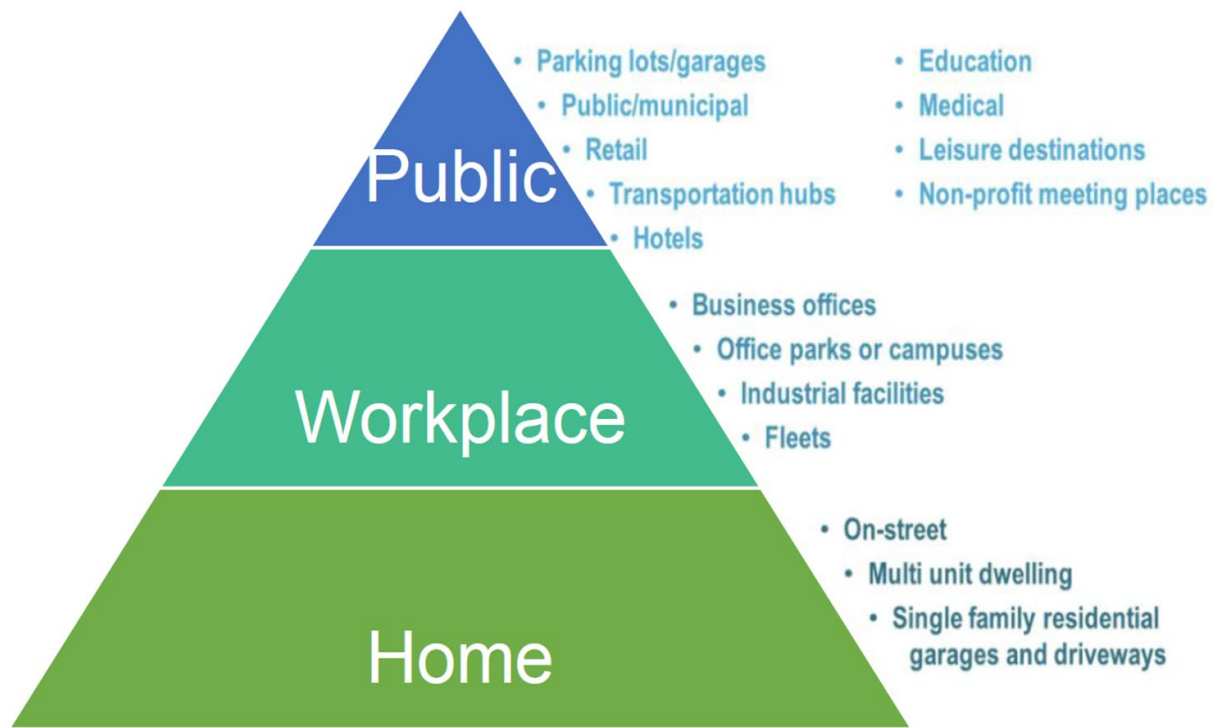
Station cost estimates provided from AFDC Electric Vehicle Charger Selection Guide available here: https://afdc.energy.gov/files/u/publication/EV_Charger_Selection_Guide_2018-01-112.pdf

Day in the Life of an Average Car

Home	Workplace	Public
9+ hours	2-8.4 hours	30 min-3.5 hours
Multi-unit dwellings, on-street, single-family residential garages or driveways	Business offices, fleets, office parks/campuses, industrial facilities	Parking lots, municipal, retail, transportation hubs, hotels, education, medical, leisure destinations,



Based on Location Type and Average Time Spent, Different Charging Levels May be Better Suited by Site than Others



Volkswagen Settlement Texas Mitigation Plan (TxVEMP): Zero Emissions Vehicle Infrastructure – **DEADLINE SEPTEMBER 9, 2021!**

Funds: The purchase and installation of new light-duty electric vehicle Level 2 charging equipment

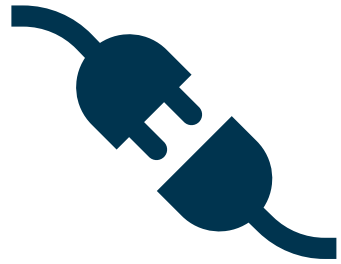
Reimbursements of up to \$2,500 per installation and may not exceed the following percentages of eligible costs:

- 70% for Publicly Available EV Chargers
- 60% for EV Chargers at a Workplace or Multi-Unit Dwelling

Alternative Fuel Infrastructure Tax Credit- AVAILABLE NOW

Funds: A Tax Credit equal to 30% of costs of EVSE, not to exceed \$30,000

Deadline: Installed before December 31, 2021



\$ Use these two incentives together to make new charging stations even more affordable!

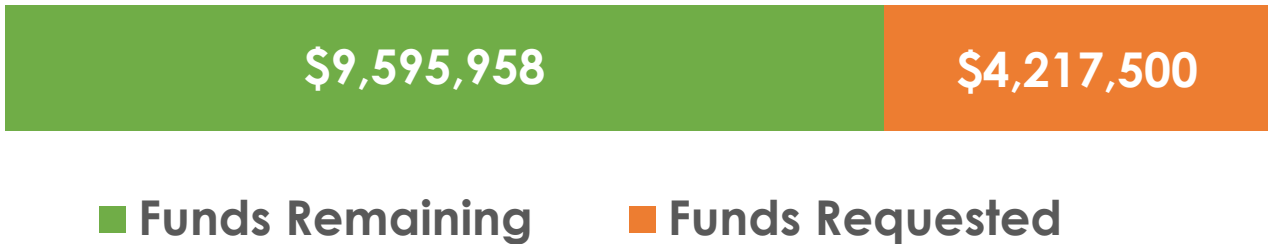
For a full list of available funding opportunities visit www.nctcog.org/aqfunding

TxVEMP ZEV Infrastructure Level 2 Rebate

Funding Awarded on a First Come, First Served Basis

DEADLINE: **9/9/2021** or When Funds Run Out, Whichever is First

Total Statewide Allocation = \$10,465,958

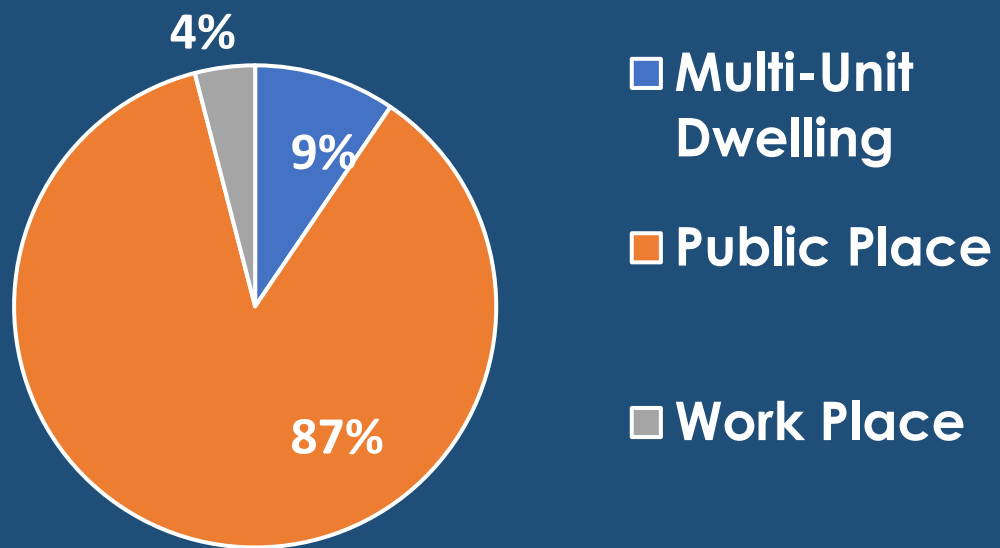


DFW Area Has Requested 27% of All Funds to Date

Data reflects information received from TCEQ as of August 2, 2021

1701 Sites Requested Statewide

Distribution by Site Type



MAKE SURE TO APPLY BEFORE DEADLINE!

Important Application Information

9

- ✓ **Entities can Apply for 10 stations per Application**
- ✓ **Simplified Application**
- ✓ **No Limit to Number of Applications that May be Submitted**
- ✓ **Reimbursements Available to Any Eligible Level 2 Charging Station Installed from September 20, 2020 through September 9, 2021**
- ✓ **Applicants Have 24 Months to Purchase and Install Eligible Equipment for Reimbursement After Application Award**

~\$5 million still available for last month of funding

Get Charging Stations in Your Jurisdiction

Help your jurisdiction fill infrastructure gaps and highlight progressive measures to promote EV readiness

Share Funding Information & Encourage Applications

Share funding information with contacts including city staff, businesses, workplaces, and multi-family housing

Distribute charging benefits information and free flyers to Multifamily Properties and Workplaces

- Differentiate a Property
- Show a Public Commitment
- Double EV Commuting Range
- Plan and Accommodate Early to Save

Learn More and Download our Info Flyers at
www.dfwcleancities.org/workplace-charging
www.dfwcleancities.org/multifamily



Plug-In Electric Drive Vehicle Credit- **AVAILABLE NOW**

Funds: Passenger, light-duty trucks, and certain 2 and 3 wheeled EVs

\$2,500 - \$7,500 per new passenger and light-duty EVs and PHEVs purchased

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10% of cost of vehicle up to \$2,500 for 2 and 3 wheeled vehicle purchased

***Phases out based on manufacturer market sales**



Check out other opportunities for fleets to get EVs in the Heavy-duty sector at www.nctcog.org/AQfunding. Pass along to companies and cities who you think could benefit!

**BOTH
EXPECTED
TO OPEN
LATER
THIS YEAR**

Alternative Fueling Facilities Program (AFFP)

Funds: Alternative fuel stations, including EV chargers

50% of the total eligible costs with a maximum of \$600,000 for EV Chargers

Public Stations considered before private stations

Last Round: 122 EV Charging Station applications received, totaling \$4.9 Million

Volkswagen Settlement Texas Mitigation Plan (TxVEMP): Zero Emissions Vehicle Infrastructure – DC Fast Chargers

Funds: DC Fast Charging Stations

Funding levels not yet announced, but will be greater than level 2 reimbursement level

PRO TIP:

Plan ahead for stations, so when funding is announced, you are ready to go. Where are there station gaps? Where are they needed? Engage differing stakeholders to get them installed (cities, businesses, workplaces, etc).

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