



Saving Money and Reducing Truck Emissions Webinar Series

TCO Deep Dive: Understanding the Lifetime Costs of Alternative Vehicles

Date: Wednesday, January 21, 2026

Time: 1:00 – 2:00 PM Central Time

Hosted by the **North Central Texas Council of Governments (NCTCOG)**

Register in Microsoft Forms at:
<https://forms.microsoft.com/r/xUwXMneVGW>

Webinar will be presented through **zoom**

Contact: Trey Pope, tpope@nctcog.org

Jason Brown, jbrown@nctcog.org

Presenters:

Juliana VandenBorn, NCTCOG

Cabell Hodge, National Laboratory of the Rockies

OVERVIEW



Image provided by
Getty

Welcome, Introduction

Presenter: Trey Pope, Transportation/Air Quality Planner, NCTCOG

Estimating Total Cost of Ownership

Presenter: Juliana VandenBorn, Senior Air Quality Planner, NCTCOG

Alternative Fuel Vehicle and Infrastructure Costs, Tools, and Considerations

Presenter: Cabell Hodge, Vehicle and Infrastructure Analysis Group Manager, National Laboratory of the Rockies

Discussion

Updates and Close



Saving Money and Reducing Trucking Emissions Program



GOALS

Promote emissions reduction and cost saving strategies within the trucking industry



INITIATIVES

Build relationships within the trucking industry

Share information about emission reduction strategies

Connect SmartWay verified technology to trucking owner/operators and fleet managers

SMARTe

Saving Money and Reducing Truck Emissions





Estimating Total Cost of Ownership

Juliana VandenBorn, Senior Air Quality Planner
North Central Texas Council of Governments /
Dallas-Fort Worth Clean Cities

Who We Are

Regional Planning
Agency



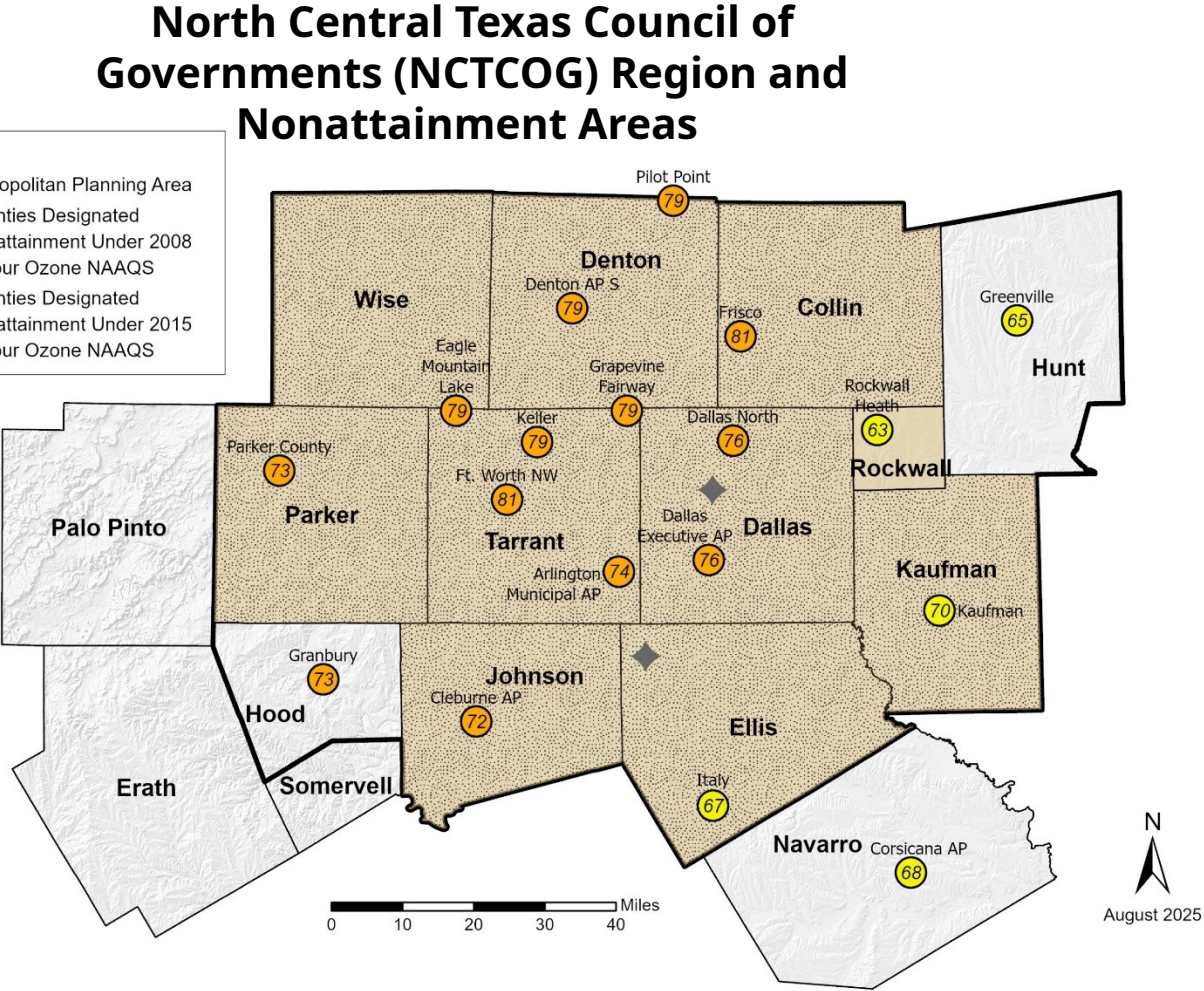
Metropolitan
Planning
Organization (MPO)



Department of Energy-
Designated Clean
Cities Coalition



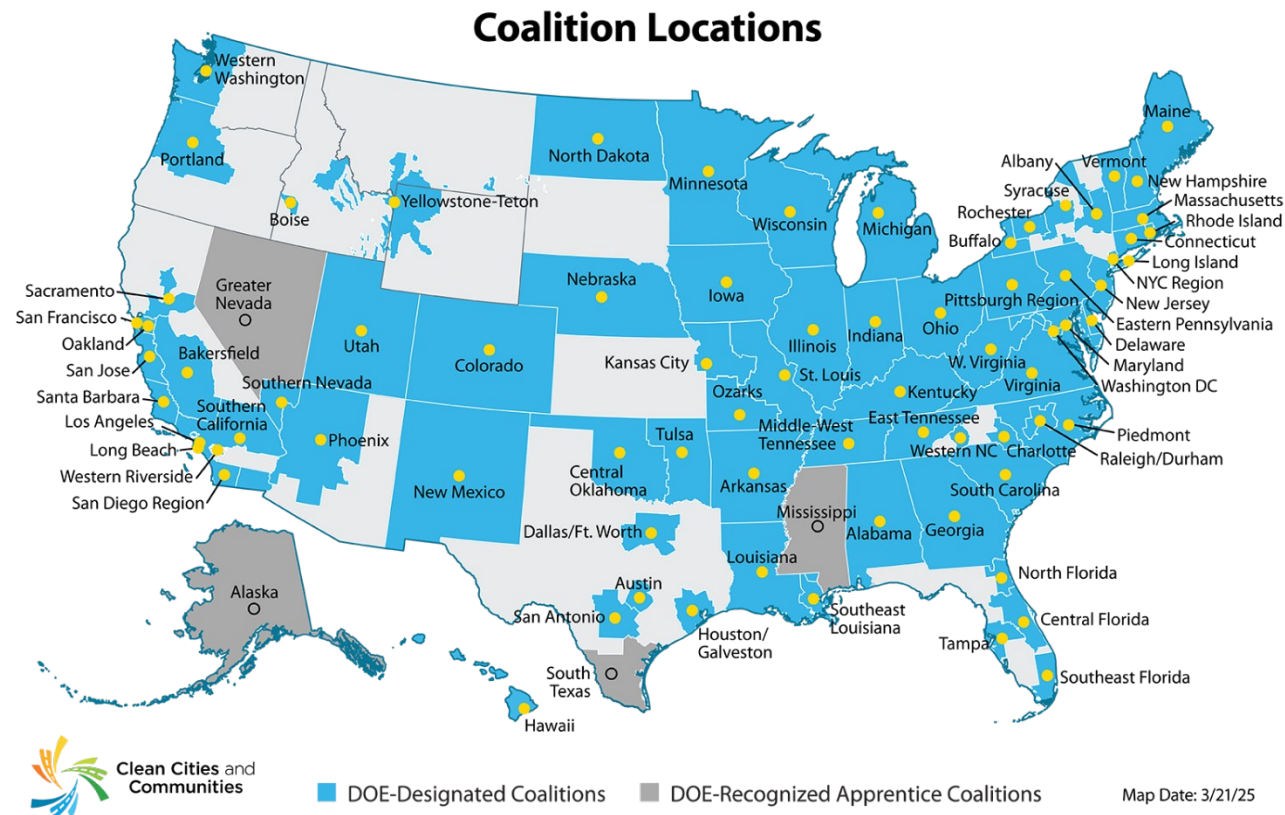
- Sister Coalitions in Texas:*
- Alamo Area Clean Cities (San Antonio)*
 - Central Texas Clean Cities (Austin)*
 - Houston-Galveston Clean Cities*
 - Apprentice Coalition: South Texas Clean Cities (Rio Grande Region)*



National Network of Clean Cities Coalitions

More than 85 Clean Cities coalitions with thousands of stakeholders, representing ~90% of U.S. population

Designated by the Department of Energy



Clean Cities Portfolio

- New Mobility Choices and Emerging Transportation Technologies
- Light-, Medium-, and Heavy-Duty Vehicles
- Idle Reduction Measures and Fuel Economy Improvements
- Alternative and Renewable Fuels and Infrastructure

Alternative Fuels and Energy Team

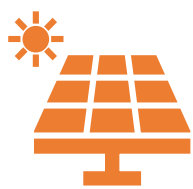
Key Focus Areas & Goals



Clean Vehicle
Initiatives



Alternative Fuel
Infrastructure Initiatives



Energy Integration & Community
Readiness

What We Do



Funding
Support



Technical
Assistance



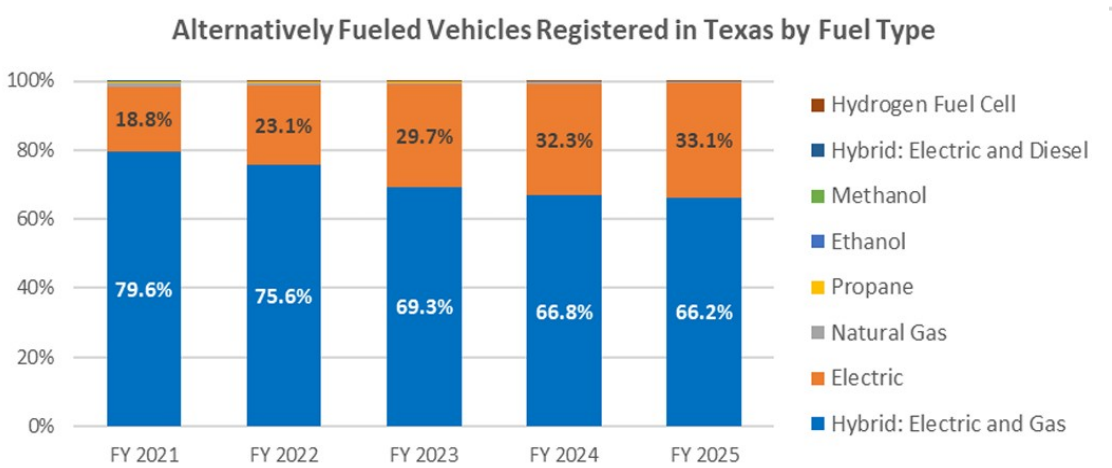
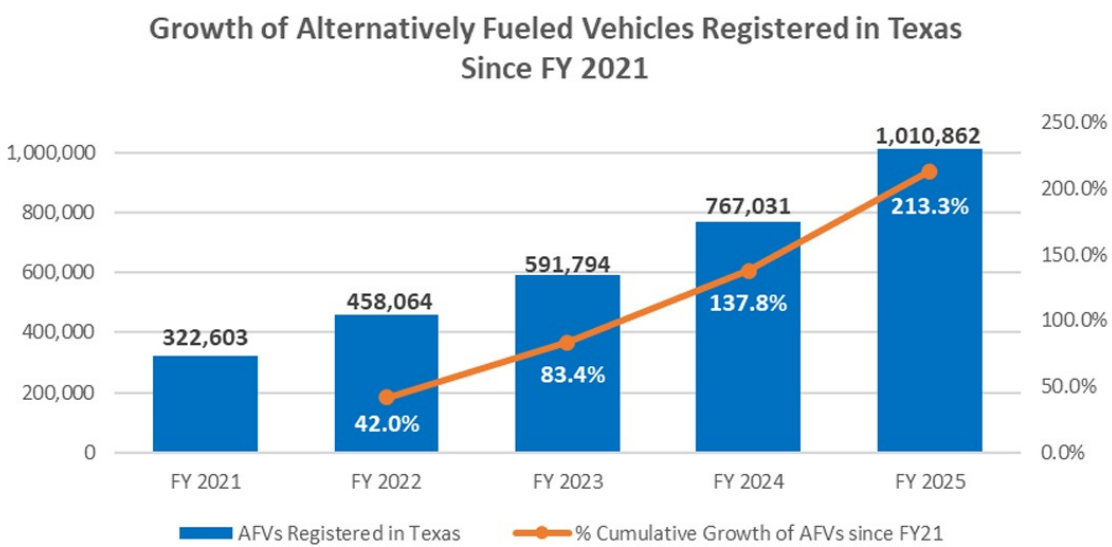
Planning the
Future



Raising
Awareness



Alternative Fuel Vehicle Adoption in Texas



Source: FY_2025_Alternatively_Fueled_Vehicle_Report.pdf

All-Electric Vehicles Represent the Largest Year over Year Growth of Any Alternative Fuel

All-Electric and Plug-In Hybrid Vehicle Registration as of December 30, 2025*

- Class 7 and 8: 229
- Class 2B -6: 27,098
- Class 1 – 2a: 453,991

Hydrogen Fuel Cell Vehicles are of Increasing Interest

- 12 Hydrogen Fuel Cell Vehicles Registered as of 2025
- UT Austin Hydrogen Rideshare Demo
- State of Texas Created a Hydrogen Fuel Cell Grant Program
- Hydrogen Fuel Cell Class 8 Truck Demo as part of Run on Less



Developing ZEV Infrastructure in Texas



Texas Hydrogen and Electric Freight Infrastructure Project (Tx-HEFTI): \$70 Million Award



Other Texas ZEV Investments

Gulf Coast Hydrogen Hub: \$1.2B to GTI Energy for Clean Hydrogen Hub

Gage Zero and Hillwood Builds EV Fleet Charging Hub at AllianceTexas

Texas EV Charging Plan: \$400M for TX; Can include Freight Charging for Phase II

EPA Clean Ports: \$105M to Port of Corpus Christi



Estimating Total Cost of Ownership – January 21, 2026

Total Cost of Ownership (TCO)

What is TCO and what is it used for?

- Total Annual Costs of a *New Vehicle Purchase* Over a Set Span of Years (Planner Ownership)
- Estimate TCO of Alternative Fuel Vehicles (AFV) Compared to Conventional Vehicles

Identifying Available Tools/Resources

- Alternative Fuel Life-Cycle Environmental and Economic Transportation (AFLEET) Tool
www.afleet.esia.anl.gov/home/
- Fueleconomy.gov - www.fueleconomy.gov
 - Find a Car, Plug-in Hybrid Cost Savings Calculator, Fuel Savings Calculator
- Alternative Fuel Data Center (AFDC) - www.afdc.energy.gov/
 - Vehicle Search, Vehicle Cost Calculator, VICE Model
- CALSTART Zero-Emission Vehicle Inventory - www.globaldrivetozero.org/tools/zeti/
- Atlas EV Hub Dashboard for Rapid Vehicle Electrification (DRVE) Tool
www.atlaspolicy.com/dashboard-for-rapid-vehicle-electrification-drve/
- NACFE Run on Less - www.nacfe.org/research/run-on-less/run-on-less/
- Environmental Defense Fund Fleet Electrification Solutions Center - www.electricfleet.org/



Total Cost of Ownership (TCO) Inputs

Vehicle Type: Long Haul Freight Truck

Vehicle Type	Fuel Type	Cost	Incentive	Maintenance and Repair	Fuel Economy (MPDG)	Fuel Price	Annual Mileage	Years of Ownership
Mack Pinnacle	Diesel	\$185,000	N/A	\$0.22	7.2	\$3.34	170,000	8
Freightliner Cascadia	CNG	\$250,000	\$16,355 (TERP TNGVGP)	\$0.23	6.5	\$2.80	170,000	8
Hino XL7	Biodiesel	\$185,000	N/A	\$0.22	7.2	\$4.52	170,000	8
Peterbilt 579EV	Electric	\$428,000	\$72,182 (TxVEMP All-Electric)	\$0.19	12.7	\$0.14	170,000	8

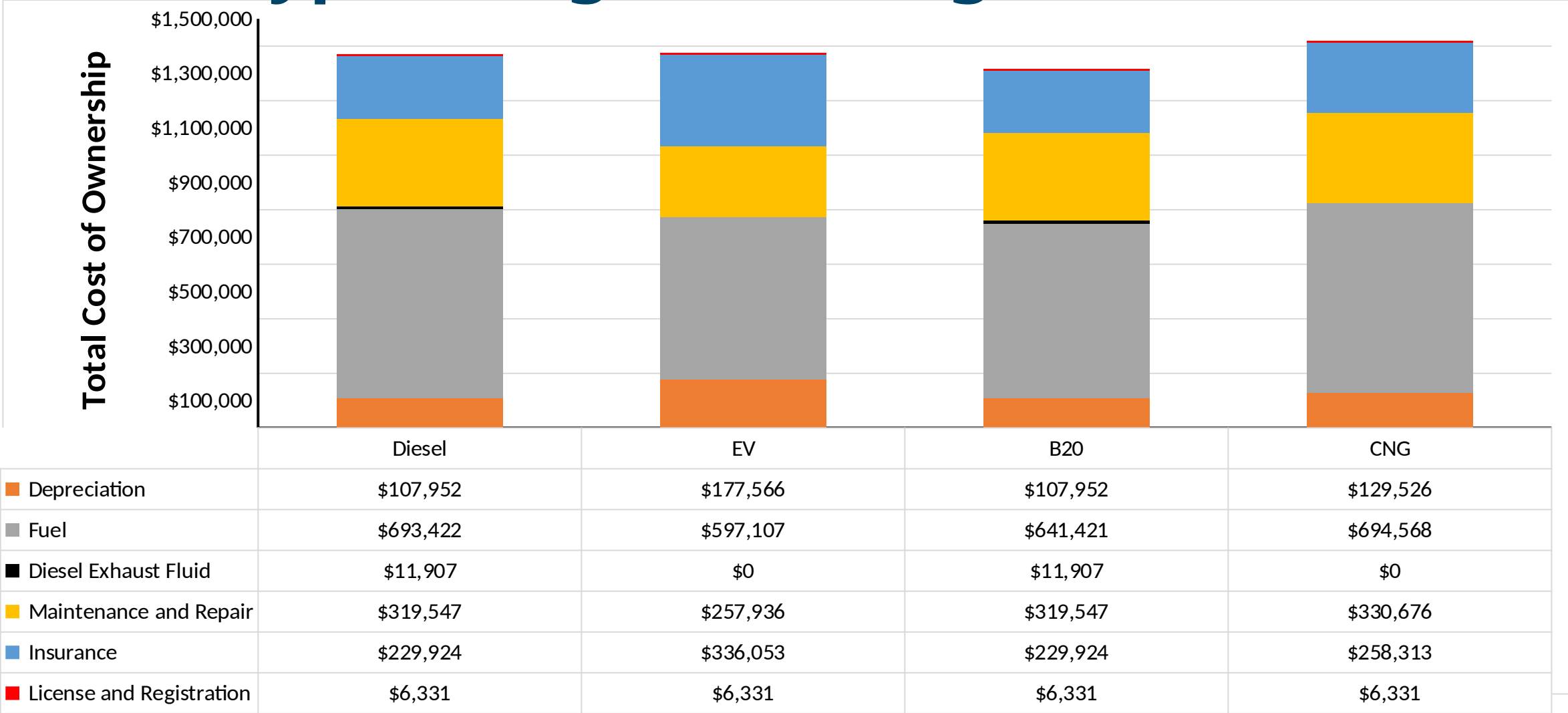
Note:

- **Vehicle Type Makes and Models only used as examples, vehicle specifications NOT specific to Make/Model**
- **AFLEET Defaults used for ALL inputs**



Total Cost of Ownership (TCO) Results*

Vehicle Type: Long Haul Freight Truck



Estimating Total Cost of Ownership – January 21, 2026

\$72k & \$16k Incentives Applied to EV& CNG

*Source:
www.afleet.esia.anl.gov/home/

NCTCOG North Texas Zero Emissions Vehicles Call for Projects

\$58.6M to replace existing ICE heavy-duty vehicles with zero-emission vehicles,

- Class 6 or Class 7 “Vocational” Vehicles ONLY (GVWR between 19,501 lbs to 33,000 lbs) **Sales**
- Can include funding for infrastructure

Open Now through February 13, 2026 – Apply Now at www.nctcog.org/NTxZEV

Vehicle Type	Battery Electric Vehicles Maximum Funding
Straight/Box Truck	65%, up to \$190,000
Step Van	65%, up to \$160,000
Septic/Bucket Truck	65%, up to \$330,000
Other Vocation	65%, up to \$355,000
Refuse Hauler	50%, up to \$260,000
Street Sweeper	50%, up to \$315,000
Transit Bus	33%, up to \$265,000

Vehicle Type	Hydrogen Fuel Cell Electric Vehicles Maximum Funding
Straight/Box Truck	80%, up to \$400,000
Step Van	80%, up to \$340,000
Septic/Bucket Truck	80%, up to \$670,000
Other Vocation	80%, up to \$720,000
Refuse Hauler	70%, up to \$600,000
Street Sweeper	70%, up to \$720,000
Transit Bus	60%, up to \$780,000



Texas Emissions Reduction Plan (TERP) Funding

Go to www.tceq.texas.gov/airquality/terp/programs for a full list of programs

<u>Light-Duty Motor Vehicle Purchase or Lease Incentive Program</u> - Open Now through March 6, 2026 Provides up to \$5,000 for the purchase or lease of a light-duty motor vehicle	<u>Emissions Reduction Incentive Grants</u> (ERIG)
<u>Alternative Fueling Facilities Program</u> (AFFP)	<u>Texas Clean School Bus Program</u> (TCSB) – Open Now through May 22, 2026 Provides up to 80% of the incremental cost of the vehicle for newer, cleaner versions school buses
<u>Seaport and Rail Yard Areas Emissions Reduction Program</u> (SRRAP)	<u>New Technology Implementation Grant</u> (NTIG)
<u>Texas Natural Gas Vehicle Grant Program</u> (TNGVGP)	<u>Governmental Alternative Fuel Fleet Grant Program</u> (GAFF)
<u>Texas Clean Fleet Program</u> (TCFP)	Rebate Grants



Texas Volkswagen Environmental Mitigation Program – All-Electric Grant Round

~\$30M available: tceq.texas.gov/agency/trust/all-electric

Purchase New Battery or Fuel Cell Electric Vehicle/Equipment to Replace or Repower Existing Diesel	Funding Threshold
Class 4-8 Local Freight or Port Drayage Trucks GVWR 14,001 Pounds and Up Used to Transport Freight, Cargo, or Refuse Model Year 1992-2009	Open Now through August 31, 2026 For Government Entities: <u>Up to 100% of Incremental Cost</u> For Non-Government Entities: <u>Up to 75% of Incremental Cost</u> “Incremental Cost” = the eligible cost of the project less default scrap value* and any other financial incentives, tax credits, etc.
Class 4-8 School, Shuttle, or Transit Buses GVWR 14,001 Pounds and Up Used to Transport Passengers within a City or Defined Region Model Year 2009 or Older	
Airport Ground Support Equipment Tier 0, Tier 1, or Tier 2 Diesel Equipment 25 HP and Up Used to Service Aircraft Between Flights	
Forklifts and Port Cargo Handling Equipment Tier 0, Tier 1, or Tier 2 Diesel Engines Must have Greater than 9,000 Pounds Lift Capacity	



Estimating Total Cost of Ownership – January 21, 2026

Additional Funding Opportunities

Research more funding here:

www.nctcoq.org/aqfunding

Program/Incentive	Eligible Activities	Funding Amount	Key Dates
North Texas Diesel Emissions Reduction Project	Replace on-road diesel vehicles with a GVWR of over 16,001 or non-road diesel equipment and drayage with GVWR of over 33,001 lbs Replace diesel transport refrigeration unit with all-electric Install EPA verified idle reduction	Up to 45% for zero-emission vehicle Up to 35% for CARB Low NO _x Vehicle Up to 25% for all other fuels	NCTCOG Call for Projects Open Now through March 13, 2026
Alternative Fuel Vehicle Refueling Property Credit	Installation of qualified fueling equipment, such as EV charging infrastructure in eligible locations Available to tax-exempt entities through the new DIRECT PAY option	Up to 30% tax credit	Open Now through June 30, 2026

Considerations for Vehicle Funding



Can a vehicle be scrapped?
Sales



Fuel type of new vehicle?



Is infrastructure funding needed?







Will other funding be used for the same vehicle?



When will the new vehicle be purchased?

Other Strategies To Reduce Emissions and Save Money

Strategy	Saves Money 	Reduces Emissions 	Extends Engine Life 	Less Noise 
Idle Reduction	X	X	X	X
Driver Training	X	X	X	
Route Optimization	X	X		
Rightsizing	X	X		X
Downsizing	X	X		
Drop-in Fuels	X*	X		X*

*Benefits will vary depending on alternative fuel type

Get Involved with DFWCC

Contact us at cleancities@nctson.org for any questions on fleet electrification, funding opportunities, or other inquiries

Upcoming webinars and events posted regularly at dfwcleancities.org/events

**Sign up for DFWCC weekly email list and follow DFWCC LinkedIn at:
dfwcleancities.org/get-involved**



Contact Us



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[@NCTCOGTrans](https://twitter.com/NCTCOGTrans)



[linkedin.com/showcase/
dfwcleancities/](https://www.linkedin.com/showcase/dfwcleancities/)

An aerial photograph of the National Laboratory of the Rockies campus. The image shows several large, modern buildings with flat roofs, some of which have solar panels installed. The campus is surrounded by green fields and a few residential houses. In the background, there are rolling hills and mountains under a clear blue sky.

NATIONAL
LABORATORY
OF THE ROCKIES

Alternative Fuel Vehicle and Infrastructure Costs, Tools, and Considerations

Cabell Hodge, NLR
North Central Texas Council of Governments Webinar
January 21, 2026

Contents

- 1 Introduction**
- 2 Publicly Available Tools and Calculators**
- 3 TCO Research and Resources**

National Laboratory of the Rockies

Foundational Science

Bench-scale- discovery

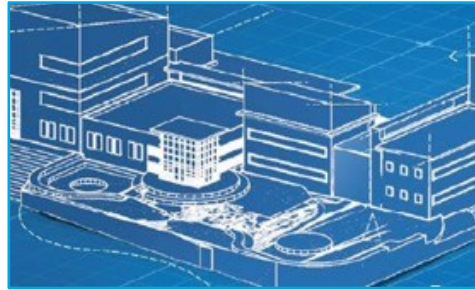


Solar Energy Research Facility
Science and Technology Facility
Field Test Laboratory Building



Accelerated Technology Scale-Up

Scaling R&D and Process Engineering



Energy Materials and Processing
at Scale (Completion 2027)



Energy Systems Integration
Facility (ESIF)

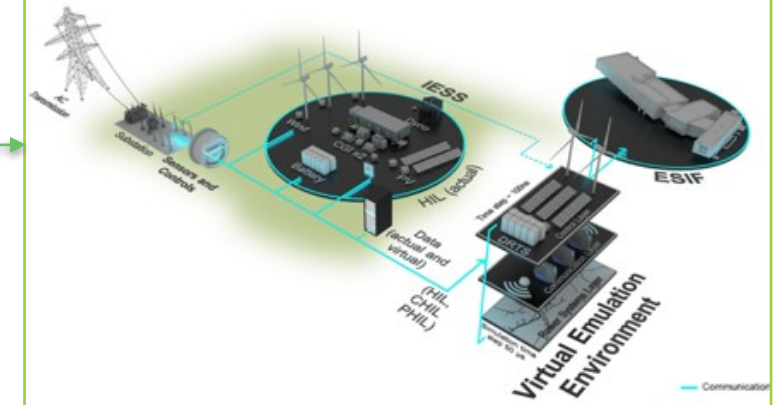


Market/Systems Analysis

- Transportation fuels
- Grid & security tech
- Products from electrochemical processes
- Advanced batteries
- Electricity generation and grid integration
- New buildings and industrial materials, manufacturing and systems

Commercialization

R&D with Industry Partners

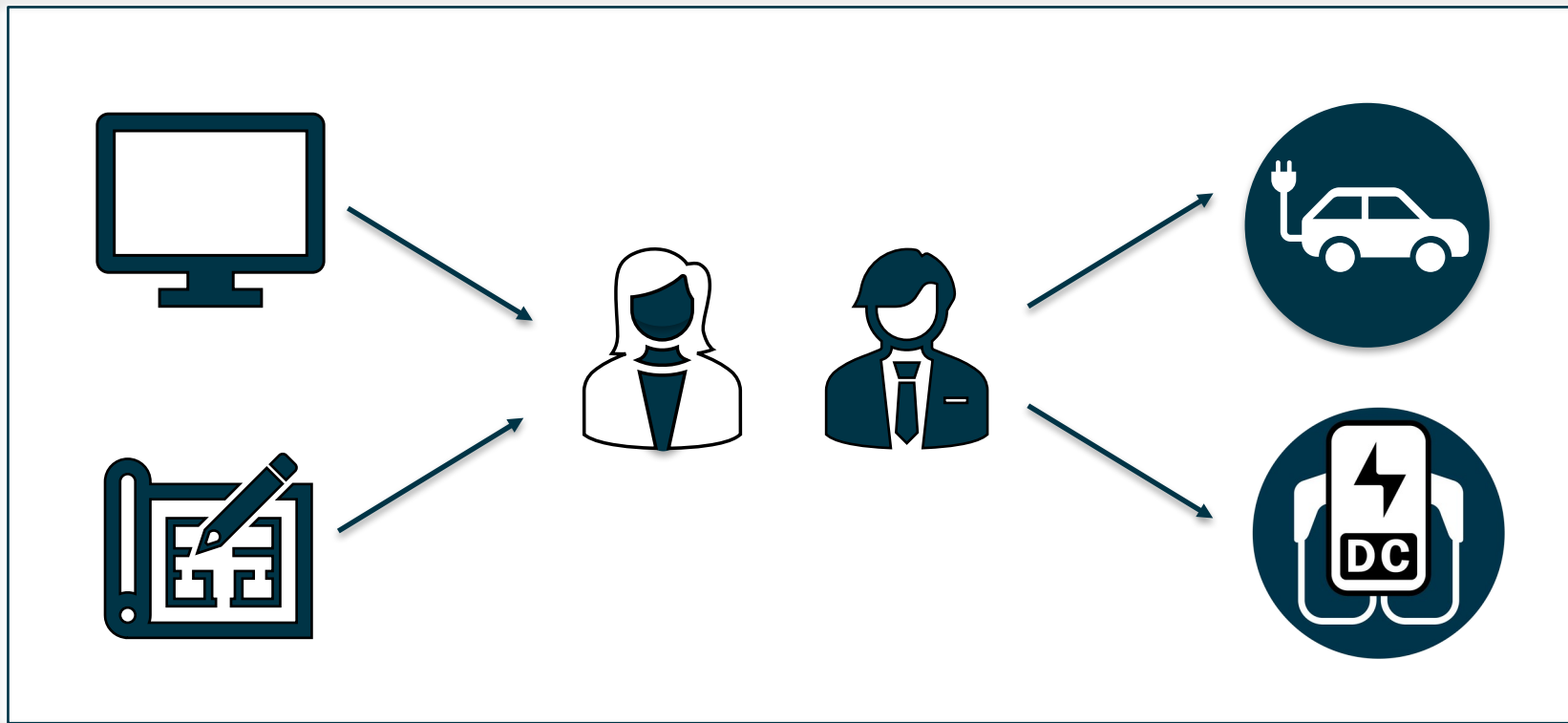


Advanced Research on Integrated
Energy Systems (ARIES)

High-Performance Computing, Simulation, and Visualization

NLR Vehicle and Infrastructure Analysis

Tools, expert support, and analytical frameworks to support decisionmakers with the deployment of advanced vehicles and infrastructure



Publicly Available Tools

For vehicle and infrastructure costs

AFDC Vehicle Search Tool

Alternative Fuels Data Center

Vehicles by Type



[Sedan/Wagon](#)



[Pickup](#)



[SUV](#)



[Van](#)



[Step Van](#)



[Vocational/Cab
Chassis](#)



[Street Sweeper](#)



[Refuse](#)



[Tractor](#)



[Passenger Van/
Shuttle Bus](#)



[Transit Bus](#)



[School Bus](#)

Vehicles by Manufacturer

Light-Duty

All



Search

Medium- and Heavy-Duty

All



Search

Engines and Hybrid/Conversion Systems

For medium- and heavy-duty vehicles:

- [Engine & Power Sources](#)
- [Conversion & Hybrid Systems](#)

Lists of 2025 Light-Duty Vehicles by Fuel/Technology



[All-Electric Vehicles \(EV\)](#)

[Plug-in Hybrid Electric Vehicles \(PHEV\)](#)

[Hybrid Electric Vehicles \(HEV\)](#)



[Biodiesel \(B20\) Vehicles](#)



[Flexible Fuel Vehicles \(FFV\)](#)

AFDC Vehicle Search Tool Results

Heil Environmental Rear Loader: PT1100, DuraPack 5000, DuraPack 4060 Split Body, PT1000



CNG - Compressed Natural Gas

Power Source(s):

Cummins L9N 8.9L Near Zero

Heil Environmental Side Loader: RevAMP fully electric



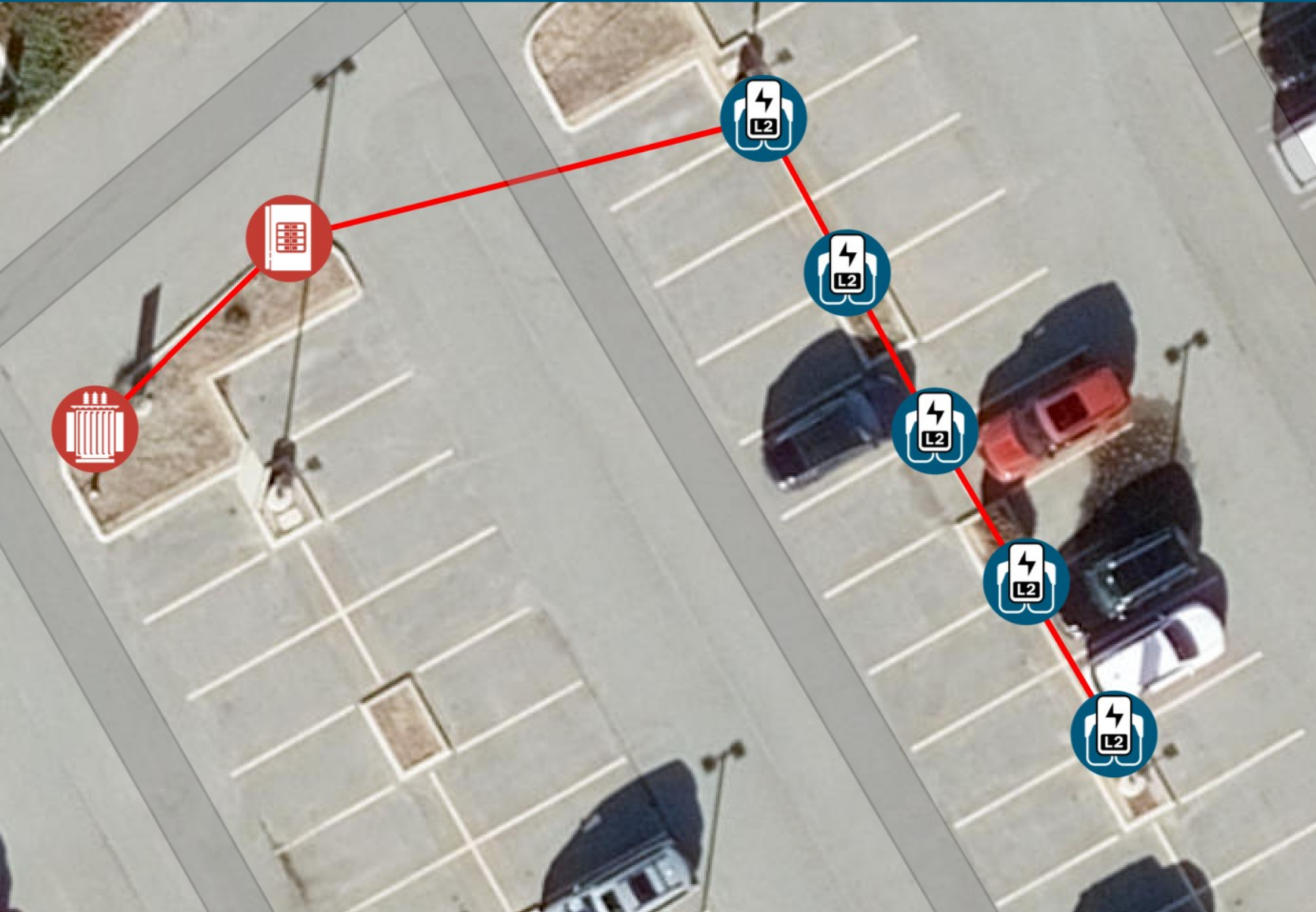
Electric

Note: Body can be run with its own independent battery or integrated to operate from chassis battery. Can be mounted on all industry leading OEM electric, diesel, or CNG chassis.

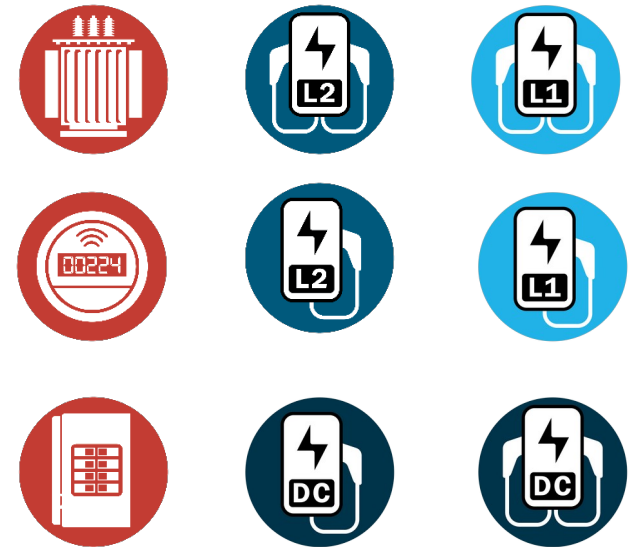
<https://afdc.energy.gov/vehicles/search>

Model Year	+
Fuel/Technology	+
Class/Type	-
<input type="checkbox"/> All Classes/Types	
<input type="checkbox"/> Sedan/Wagon	
<input type="checkbox"/> Pickup	
<input type="checkbox"/> SUV	
<input type="checkbox"/> Van	
<input type="checkbox"/> Step Van	
<input type="checkbox"/> Vocational/Cab Chassis	
<input type="checkbox"/> Street Sweeper	
<input checked="" type="checkbox"/> Refuse	
<input type="checkbox"/> Tractor	
<input type="checkbox"/> Passenger Van/Shuttle Bus	
<input type="checkbox"/> Transit Bus	
<input type="checkbox"/> School Bus	
Manufacturer - Light-Duty	+
Manufacturer - Med & Heavy-Duty	+

EVI-LOCATE



Users walk through prompts and decide where they would like to install equipment



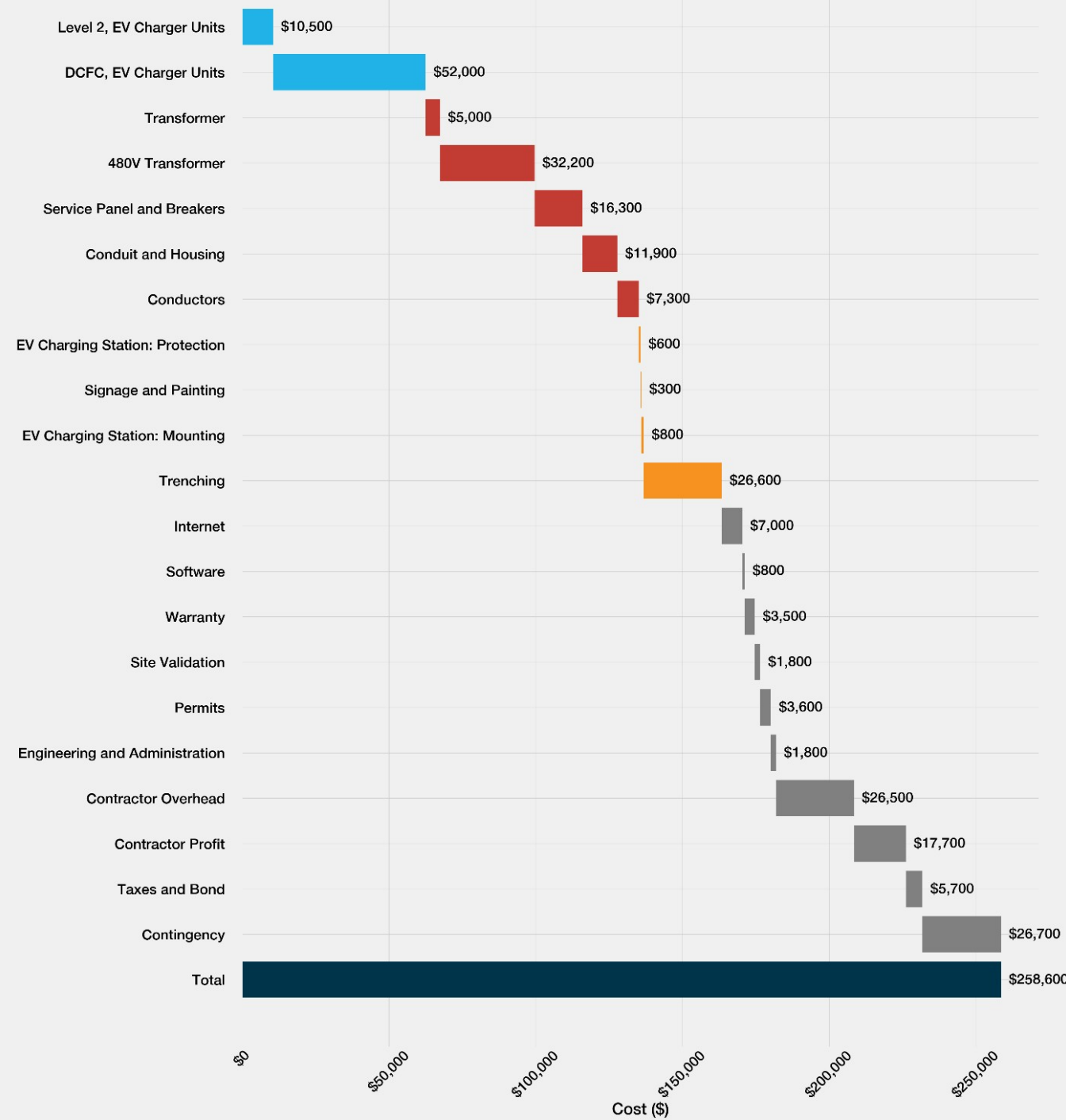
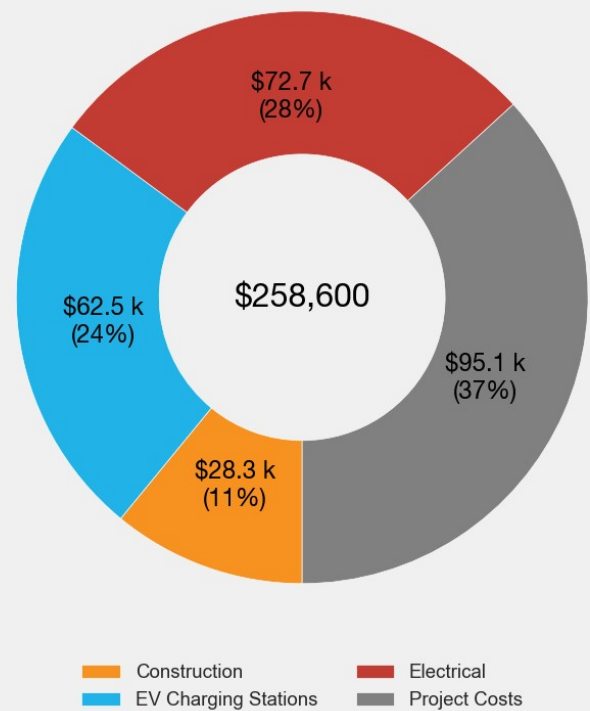
<https://evi-locate.nrel.gov/>

EVI-LOCATE

Detailed cost estimates for EV charging infrastructure by specific location

<https://evi-locate.nrel.gov>

Estimated Cost of EV Charging Stations Installation



AFDC Vehicle Cost Calculator

Choose vehicles to compare

Select up to eight vehicles to compare from the makes and models below or [create your own custom vehicle](#).


2024

Ford

F150 Pickup 4WD HEV 6cyl 3.5L Automatic (S10) Hybrid

Add >>

[Create Custom Vehicle](#)

	Vehicle	Price	Fuel Economy (City/Hwy)	Fuel Type
	2024 Ford F-150 Lightning 4WD Automatic (A1) EV \$39,974.00 - \$90,874.00	\$ 39,974 Tax credit?	44/49 kWh/100mi	Electric
	2024 Ford F150 Pickup 4WD 8cyl 5.0L Automatic (S10) Gasoline \$41,980.00 - \$74,150.00	\$ 41,980	16/24 mpg	Gasoline
	2024 Ford F150 Pickup 4WD HEV 6cyl 3.5L Automatic (S10) Hybrid \$33,935.00 - \$74,600.00	\$ 33,935 Tax credit?	22/24 mpg	Hybrid

Normal Daily Use

Average daily driving distance

34

miles

Days per week

5

Weeks per year

49

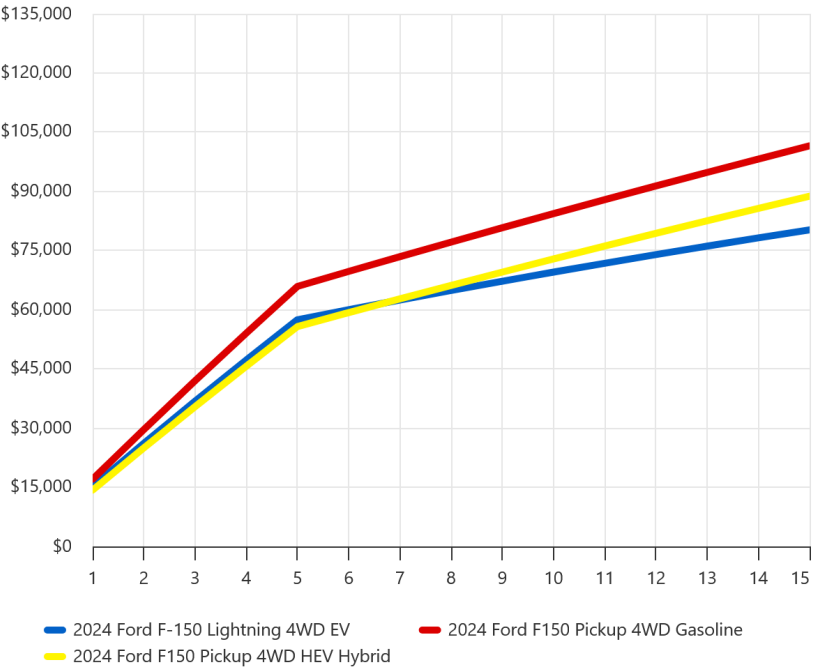
Percent highway

45

Annual Driving Distance 11926 miles
City Distance 5301 miles
Highway Distance 6625 miles


<https://afdc.energy.gov/calc/>

Cumulative Cost of Ownership by Year (Dollars)




AFLEET

Web-based or Excel
calculator tool for
vehicle total cost of
ownership

AFLEET Online 

Home Payback On-road Payback Off-road **TCO** EV Rate Charger TCO

Vehicle Info Fuel Prices Other Costs Fuel Options

Vehicle Type  **Light Commercial Truck** ▼

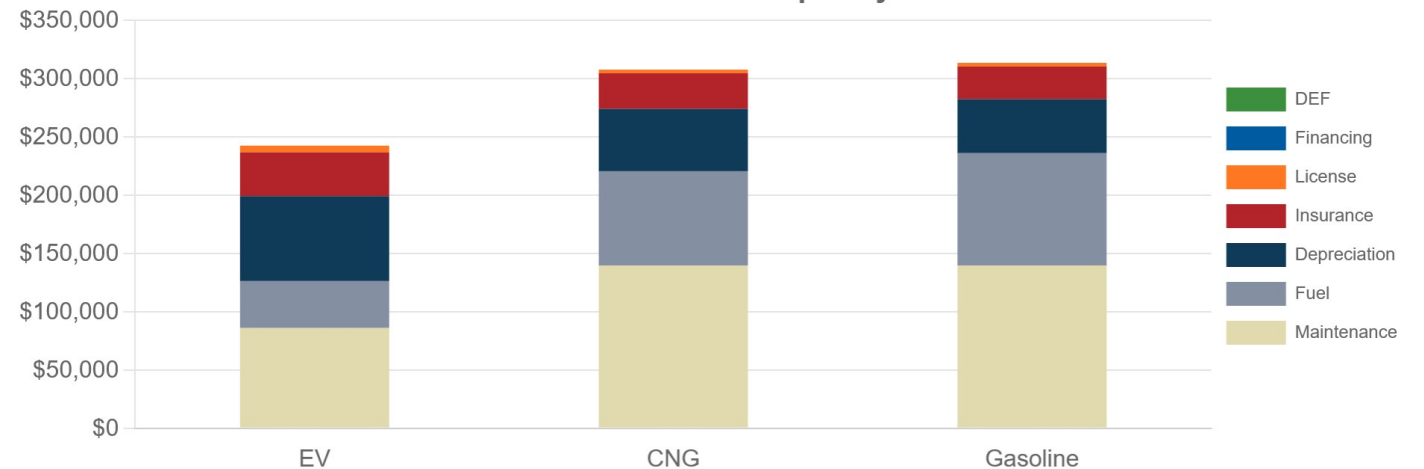
State Alabama ▼

Quantity vehicle(s)

Vehicle Mileage mi/year

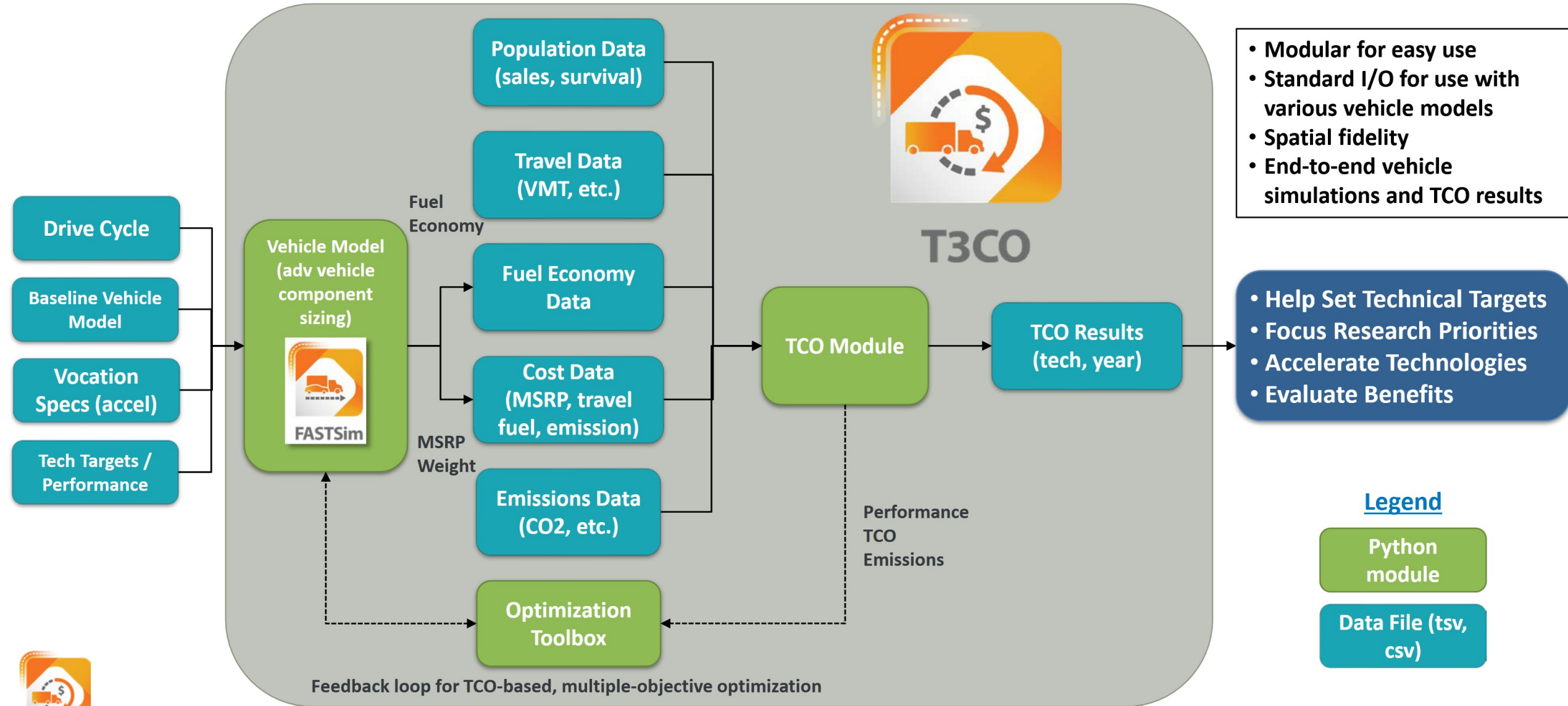
Planned Ownership years

Total Cost of Ownership: 15 years



<https://afleet.esia.anl.gov/afleet/>

Transportation Technology Total Cost of Ownership (T3CO)



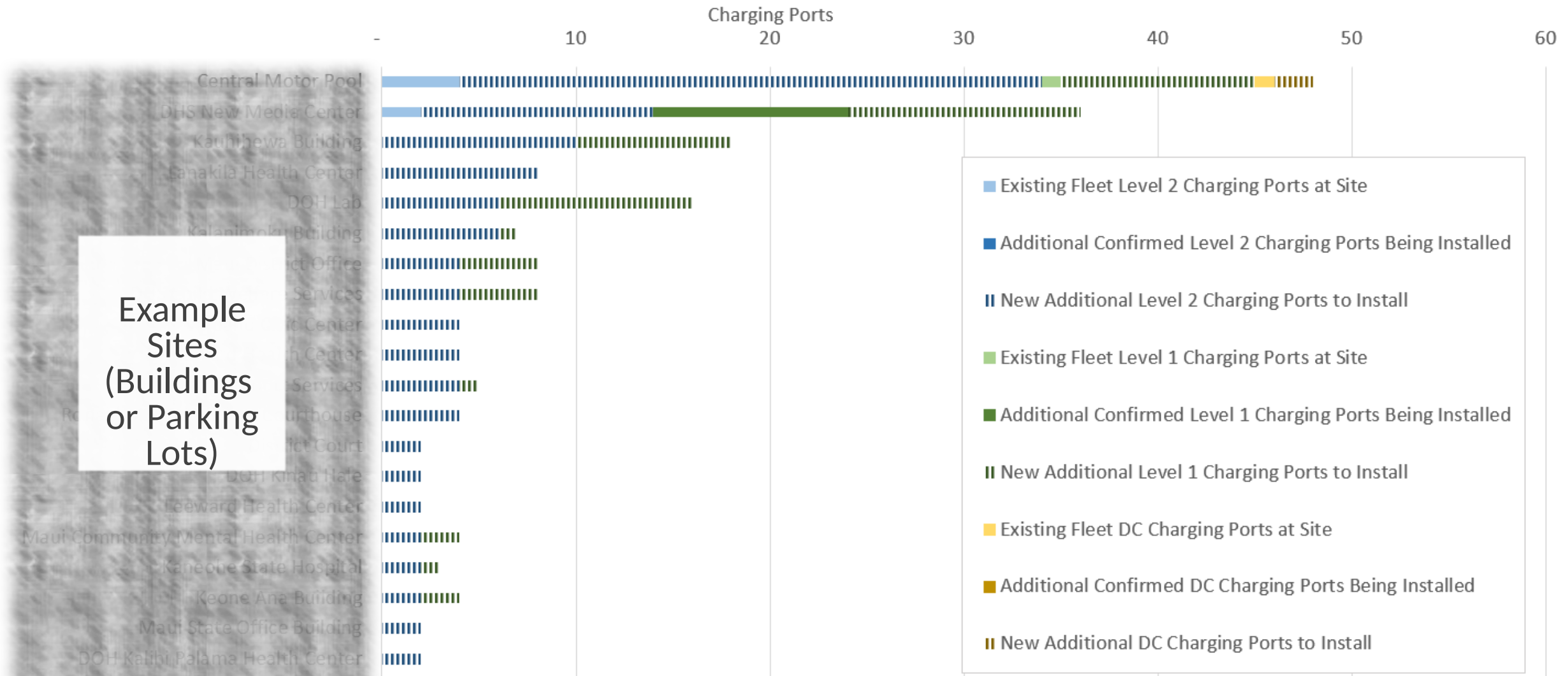
ZPAC Detailed Fleet Analysis for EVs

Fleets managers can use the tool to make decisions individually across an entire fleet of vehicles, accounting for BEV range concerns, fuel consumption, and costs

BEV Considerations					Decision Point		
BEV SIN Availability	Modeled BEV Range Concerns*	Reported BEV Range Concerns (Dropdown)	BEV Fuel Reduction Potential	Quality of BEV Candidate	ZEV Preference	Plan Year of Acquisition	
2 - Similar BEV	3 - Unknown		1 - Very High	2 - Good	BEV	2024	
2 - Similar BEV	2 - Some Public Charging		1 - Very High	2 - Good	BEV	2025	
ZEV replacement available?			Fuel and costs benefits?		User Identifies Targets		
	Minimal			2 - Good			
	Minimal			2 - Good			
2 - Similar BEV	Likely		2 - Very High	2 - Good			
2 - Similar BEV	4 - Frequent Public Charging Likely		1 - Very High	3 - Mediocre	BEV	2030	
2 - Similar BEV	5 - Very Frequent Public Charging Likely	1 - Very High	4 - Challenging	Eliminate	2025		

<https://www.energy.gov/femp/using-zero-emission-vehicle-planning-and-charging-tool>

ZPAC Fleet Charging Infrastructure Plans



Resources for Deeper Dives on Vehicle and Infrastructure Costs

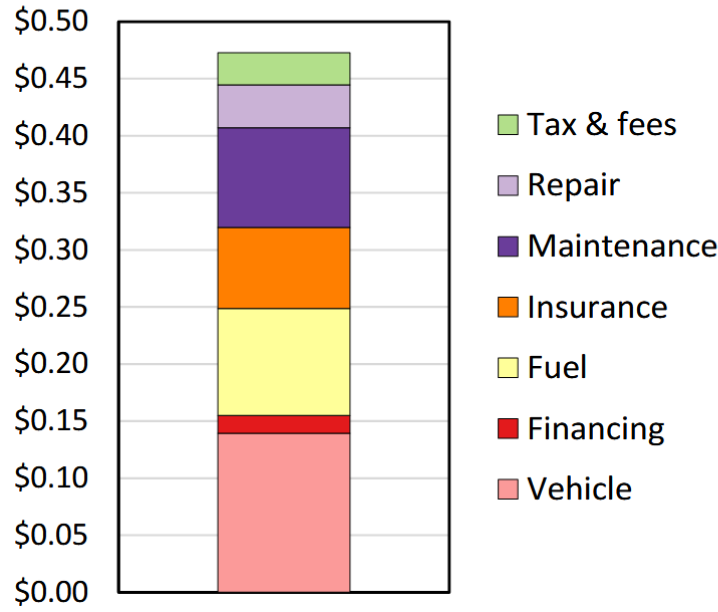
For vehicle and infrastructure costs

Vehicle Total Cost of Ownership Report

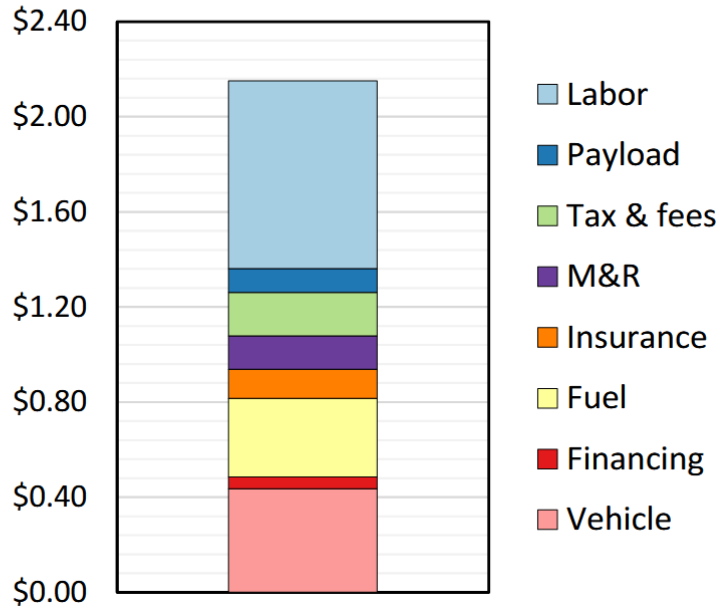
Andy Burnham et al. (2021)

Example content →

Per-Mile Cost of Ownership,
Gasoline ICE, Small SUV, MY2025



Per-Mile Cost of Ownership, BEV,
Tractor - Sleeper, MY2025



Cost Components
Purchase & Depreciation
Financing
Fuel
Insurance
Maintenance & Repair
Taxes & Fees

Size Classes
Compact Sedan
Midsize Sedan
Small Sport Utility Vehicle
Large Sport Utility Vehicle
Pickup Truck

Powertrains
Internal Combustion Engine
Hybrid Electric Vehicle
Plug-in Hybrid Electric Vehicle
Fuel Cell Electric Vehicle
Battery Electric Vehicle

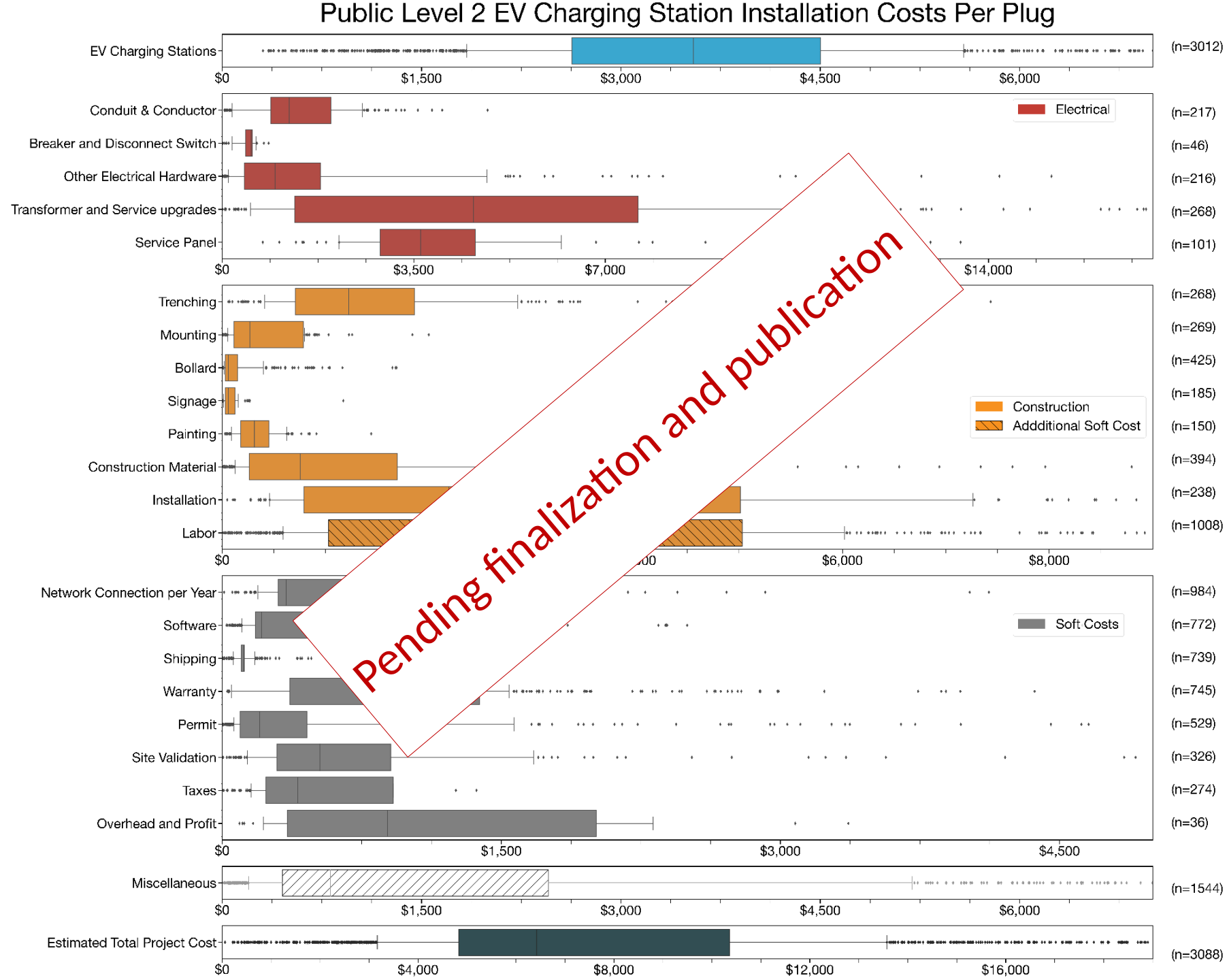
Years
2020
2025
2030
2035
2050

EVSE Cost Analysis

Ranjit Desai et al.
(2026)

Pending publication

<https://www.nrel.gov/transportation/electric-vehicle-charging-soft-costs-analysis>



CNG Station Cost Report

Margaret Smith and
John Gonzales (2014)

2026 update in
development

- Costs for small, medium, and large time-fill and fast-fill CNG stations
- Example content →



https://afdc.energy.gov/files/u/publication/cng_infrastructure_costs.pdf

Equipment	Cost Range
Compressor	\$4,000–\$550,000
• 1–8 scfm (1–4 gge/hr)	\$4,000–\$22,000
• 20–40 scfm (10–19 gge/hr)	\$50,000–\$90,000
• 50–75 scfm (24–36 gge/hr)	\$80,000–\$150,000
• 100–150 scfm (48–71 gge/hr)	\$100,000–\$250,000
• 250–650 scfm (119–310 gge/hr)	\$200,000–\$550,000
Dispenser	\$25,000–\$60,000
Dual-hose time-fill post	\$4,000–\$7,000
Storage tank	\$70,000–\$130,000
Card reader/fuel management system	\$10,000–\$30,000
Gas dryer	\$10,000–\$300,000



Propane Station Cost Report

Margaret Smith and
John Gonzales (2014)

2026 update in
development

- Costs for small, medium, and large propane stations
- Example content →

Medium Stations

Station Design	Approx. Daily Fuel Use*	Cost Range	Example Applications*
12,000-gal storage tank 2 dual-hose dispensers	450–1,800 gal (If tank is filled with 1–3 transport loads/mo)	Purchasing New Equipment: \$120,000–\$145,000 <i>Initial Cost for Leasing:</i> \$15,000–\$50,000	35 school buses × 14 gal/day, 65 police cruisers × 7 gal/day, or 100 shuttle vans × 20 gal/day 
18,000-gal storage tank 3 dual-hose dispensers	900–2,400 gal (If tank is filled with 2–4 transport loads/mo)	Purchasing New Equipment: \$150,000–\$220,000 <i>Initial Cost for Leasing:</i> \$15,000–\$50,000	60 school buses × 16 gal/day, 70 shuttle vans × 20 gal/day, 100 school buses × 10 gal/day, or 150 taxis × 10 gal/day 

https://afdc.energy.gov/files/u/publication/propane_costs.pdf

FleetREDI

204
Vehicles



757,429
Miles traveled



44,288
Hours logged

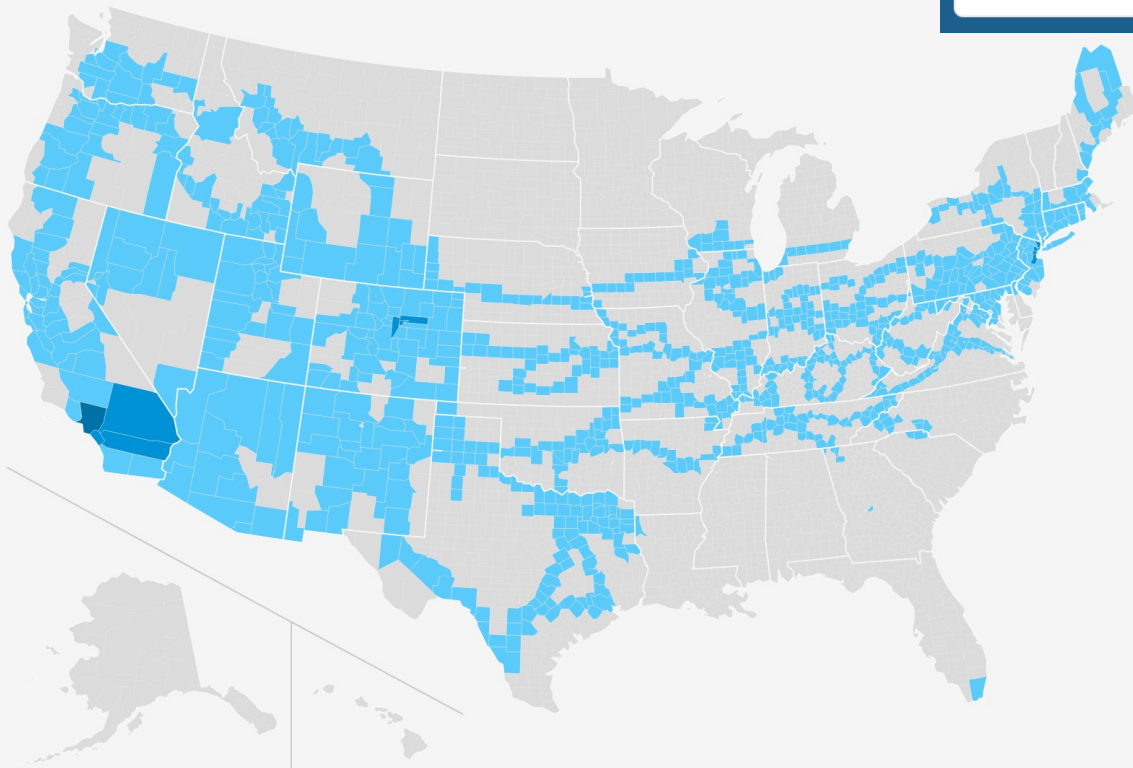


4.89
Average MPG



Total Vehicles Per County ⓘ

● 0 - 25 ● 25 - 50 ● 50 - 75 ● > 75



Vehicle classes

Class 8 x

Vehicle vocations

Freight-Local x

Real-world data on over 1,800 vehicles in operation for over 1 million hours and 7 million miles organized by vocation

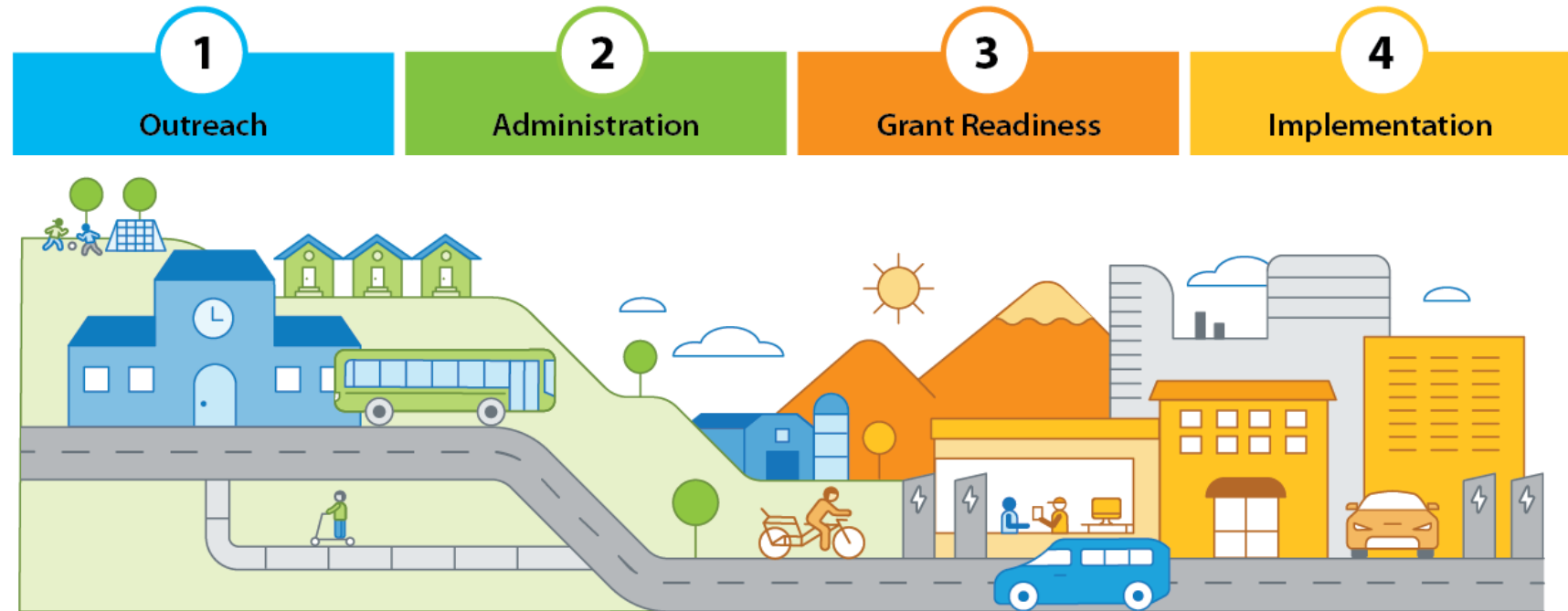
All connected to FleetDNA analytics and FASTSim powertrain simulations

<https://fleetredi.nrel.gov/#/dashboard>

Cost Analysis and Technical Support

You can email
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with inquiries into tools,
vehicle technology, or
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NLR Technical Support





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Next SMARTE Webinar Session:

Right Sizing for Procurement/Deployment
Needs

Wed., 3/18/26, 1 p.m. CT

Presenters:

- Mike Roeth, NACFE
- Ryan Bankerd, UPS

Register here in Microsoft Forms:

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