

# National Network of ~ 90 Clean Cities Coalitions

Lone Star Clean Fuels Alliance is the Clean Cities Coalition serving Central Texas

cleancities.energy.gov



# How Do Clean Cities Coalitions Fit Within DOE?

### **Vehicle Technologies Office**



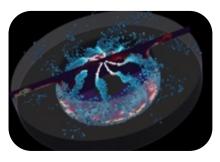
Batteries and Electrification



Materials Technologies



Energy Efficient Mobility Systems



Advanced Engine and Fuel



Technology Integration

- ✓ Improve energy **efficiency**
- ✓ Increase domestic energy security
- ✓ Reduce operating *cost* for consumers and business
- ✓ Improve global *competitiveness* of U.S. economy

# Clean Cities Portfolio



Light-, Medium-, and Heavy-Duty Vehicles



Alternative and Renewable Fuels and Infrastructure



Idle Reduction Measures and Fuel Economy Improvements

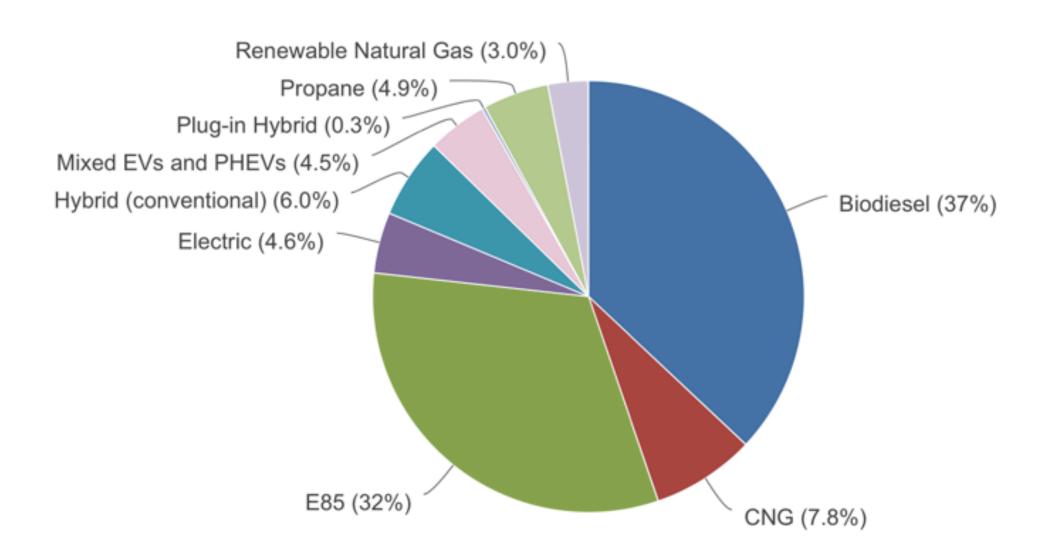


New Mobility
Choices and
Emerging
Transportation
Technologies

Technology Integration Program Clean Cities Areas of Assistance



# 2020 Greenhouse Gas Emissions Reduced by Fuel Type for Alternative Fuel Projects 7,908 tons



## Stakeholders (not inclusive!):

**City of Austin:** 

Biodiesel, E85 (ethanol), Electricity, Hybrid, Natural Gas, Propane, Renewable Natural Gas

School Districts: Austin, Eanes, Georgetown, Leander, San Marcos: propane school & para transit buses

Fast Park & Ride: CNG shuttles

Park & Zoom: Electric shuttles

Capital Area Rural Transportation System: Propane buses

City of Cedar Park: EVs

Travis County: Hybrids, propane

**TxDOT:** EVs light duty, CNG & propane, medium- & heavy-duty

Capital Metro: EV buses and passenger cars

University of Texas: Hybrids, Propane

## **Site Visit**

Eanes ISD
Propane School
Bus Yard



**Site Visit:** 

AYRO low speed electric vehicle

MOBILE VACCINATION



# **Online Workshops**

Smart Charge America - EV Readiness

**SMART CHARGE AMERICA Installation Photos** 

Smart Charge America - EV Readiness





# SINGLE: Set-up junction boxes in front of parking slot



DUAL: Set-up junction boxes in between two parking slots



Smart Charge America - EV Readiness

Smart Charge America - EV Readiness





# Ride-n-Drive ZERO Motorcycle



# UT eTruck project



Recruit fleets interested in demoing a box truck for 3 months

Year 1: Austin

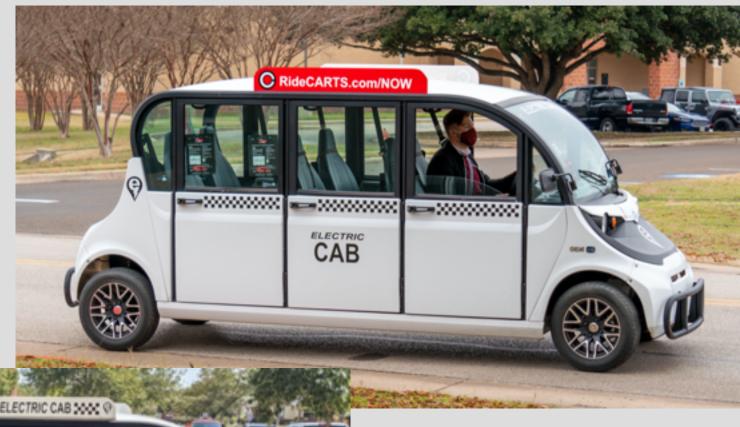
Year 2: Houston, San Antonio

Year 3: DFW



# eCab Bastrop project

Project Manager: testing ondemand low speed electric vehicles for first / last mile applications to supplement existing service.



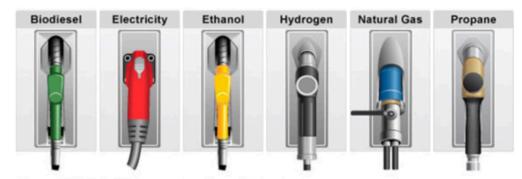


# Information & Education:



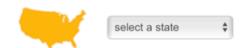
EERE » AFDC

#### Fuels & Vehicles





#### Information by State >



#### Information by Fleet Application



Delivery Services



Refuse Collection



**Public Transit** 



#### Maps & Data

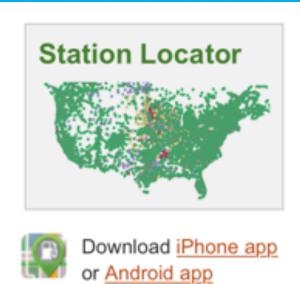
- . U.S. Alternative Fueling Stations by Fuel Type
- . U.S. Hybrid Electric Vehicle Sales by Model
- . Light-Duty Alternative Fuel Vehicle Registrations

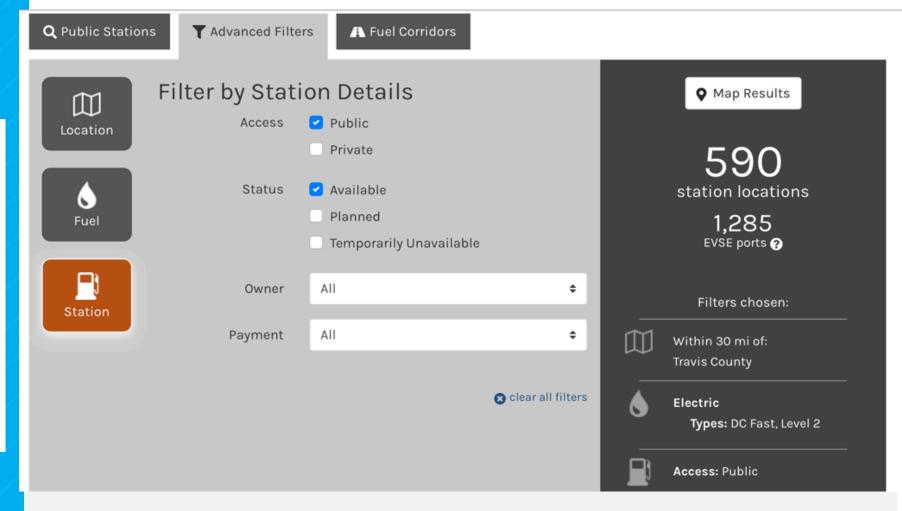


#### Tools ▶

- · Laws & Incentives
- . Electricity Sources & Emissions

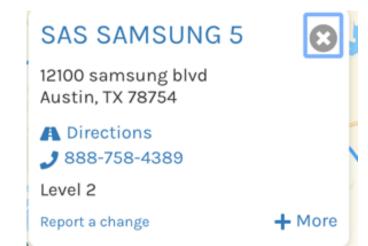
# **Tools: AFDC Station Locator**





# Lago Vista Volente Hiudson Bend Lakeway Bee West La

## **Department of Energy's Station Locator**



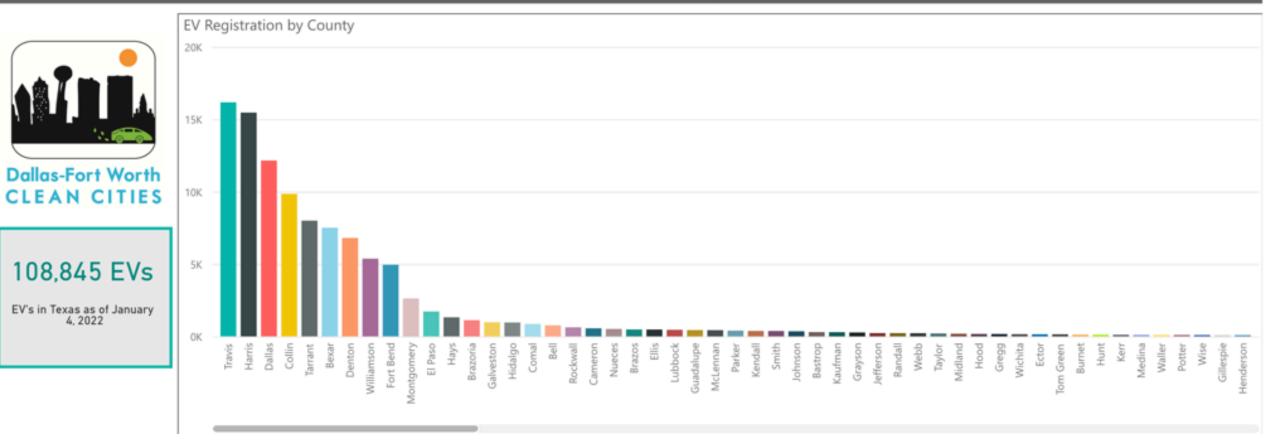
https://afdc.energy.gov

ACC ACC-EGN2 1501 W. US HWY 290 78621 Elgin 78621 Public 24 hours daily SIENNA HOUSE SIENNA HOU 404 Via De Sienna Blvd Georgetown 78628 Public 24 hours daily HEB HEB LAKEWAY #1 2000 Ranch Rd 620 S Lakeway 78734 Public 24 hours daily HEB HEB LAKEWAY #2 2000 Ranch Rd 620 S Lakeway 78734 Public 24 hours daily 2000 Ranch Rd 620-S 78734 Public 24 hours daily H-E-B #714 Lakeway ACC SAN GABRIEL 1 640 Mel Mathis Blvd Leander 78641 Public 24 hours daily ACC SAN GABRIEL 2 640 Mel Mathis Blvd Leander 78641 Public 24 hours daily 78641 Public Mon 7:00am - 10:00pm; KOHLS 11280 LEANDER1 1245 Lacy Dr Leander SHADOWGLEN STATION1 12500 Shadowglen Trace 78653 Public 24 hours daily Manor CARCHARGING WALGREENS 1821 Farm to Market 685 Pflugerville 78660 Public 24 hours daily Round Rock Nissan 3050 N IH-35 Round Rock 78681 Private Employee and visitor use Oncor Electric 350 Texas Ave Round Rock 78664 Private 78665 Private The Ace Apartment Homes 1401 Satellite View Round Rock MON: 24 hours | TUE: 24 4400 College Park Dr 78665 Public 24 hours daily ACC ROUNDROCK STAT4 Round Rock

## Tools

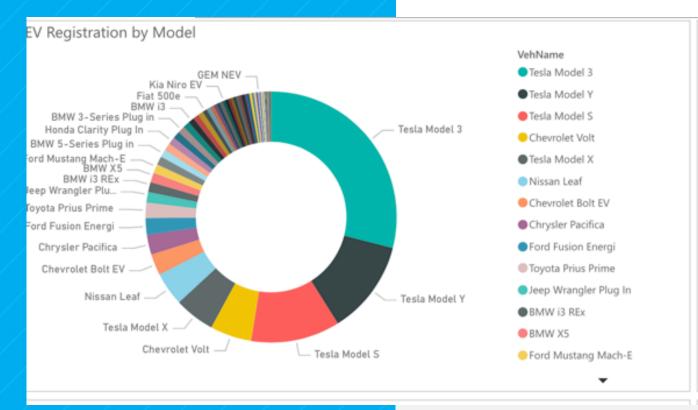
#### https://www.dfwcleancities.org/evnt

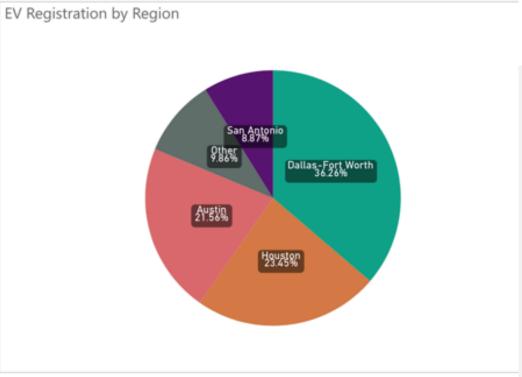
## Texas Electric Vehicle (EV) Registration Tool



Registered Vehices by County						
County	All Vehicles	EV Count	Ratio of EVs to Total Vehicles			
Travis	970,309	16,177	1.67%			
Harris	3,438,332	15,467	0.45%			
Dallas	2,127,403	12,155	0.57%			
Collin	854,282	9,856	1.15%			
Tarrant	1,724,144	7,999	0.46%			
D	4.040.000	7.543	0.400/			

Registered Veh	ices by City	/		
City	All Vehicles	EV Count ▼	Ratio of EVs to Total Vehicles	/
AUSTIN	842,511	15,090	1.79%	٠
HOUSTON	2,330,319	10,896	0.47%	
DALLAS	1,046,473	7,720	0.74%	
SAN ANTONIO	1,428,797	6,599	0.46%	
FRISCO	153,094	3,208	2.10%	
FORT WORTH	757,734	2,879	0.38%	





## Contact

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## **Upcoming events:**

- XL Fleet's EV Pickup Demonstration TBD Feb 22 -26
- Konnectronix Low Power Charging Options early Feb
- Fleet EV Readiness Roundtable Feb 17th

Interested? elizabeth@lonestarcfa.org