

Climate Mayors Electric Vehicle Purchasing Collaborative

JARED WALKER | Technical Lead - Fleet Electrification
Texas Electric School Buses | 10/10/2020



Electrification
Coalition

EV Adoption Programs Around the U.S.

The **Electrification Coalition** is a nonpartisan, not-for-profit group of business leaders committed to promoting policies and actions that facilitate the deployment of electric vehicles on a mass scale.



Technical Lead

Climate Mayors EV Purchasing Collaborative



State EV Policy Accelerator

NV, MI, PA, VA, NC



Electrification Advisor

Bloomberg American Cities Climate Challenge



Lead Electrification Partner

Smart Columbus



Project Lead

Drive Electric Northern Colorado



Pilot Program Leader

Freight and Goods Delivery Electrification

Climate Mayors EV Purchasing Collaborative

The Climate Mayors EV Purchasing Collaborative (the Collaborative) is a partnership designed to help accelerate the electrification of public fleets across the country.

Through the website and staff support, the Collaborative works to reduce the costs and barriers to electrifying fleets to make it easy for public fleets to go electric.

www.DriveEVfleets.org



Electrification
Coalition

Sourcewell 



Driving EV Fleet Transition

- Increasing procurement choice – including innovating leasing options
- Reducing administrative time
- Aggregating national demand to lower costs
- Helping with pre/post-deployment planning and training
- Offering cooperative purchasing/bundling for EV charging stations

Reducing barriers to transition for ALL public fleets (not just cities that are part of Climate Mayors)

Staffing and Support Resources

Customized and **free** technical support including:



Analysis of current fleet and vehicle recommendations



Best practices and case studies



Connections to leading fleets and vendors



Parity of vehicle offerings and technical support across the US



Connection to a cohort of public agencies

The Collaborative Reach

215

committed cities, counties, ports, universities, and transit agencies

3,813

light-duty electric vehicles and buses committed

2,226

electric vehicles procured to date

947

charging stations installed to date

Why Drive Electric?



Cost Savings

EVs have superior efficiency and a lower total cost of ownership (TCO) compared to internal combustion engine (ICE) vehicles.



Environmental Benefits

EVs can reduce greenhouse gas emissions by up to 50% compared to their ICE counterparts.



Improved Air Quality

EVs produce low or zero tailpipe emissions and will become even cleaner as electricity production becomes cleaner.



Expanding Offerings







Ever-expanding EV options for school buses and equipment, suitable for a variety of uses and needs, are available in the U.S. market.



Reduce Oil Dependence

Transportation accounts for 70% of U.S. crude oil and petroleum imports, with 92% of all transportation being powered by oil. Electricity provides a valuable source of fuel diversity.

EVs Cut Costs and Emissions

| | Annual Fuel Costs | Annual Emissions |
|---|---|---|
| All Electric Runs entirely on electricity. Based on 2020 Chevrolet Bolt. | \$550  | 2.6 metric tons  |
| Plug-In Hybrid Runs on electricity and gasoline. Based on 2020 Honda Clarity PHEV. | \$650  | 3.7 metric tons  |
| Gasoline Only Runs entirely on gasoline. Based on 2020 Ford Fusion. | \$1,200  | 7.2 metric tons  |

*Based on 45% highway, 55% city driving, 15,000 annual miles, \$0.13/kWh and \$2.18/gallon (national average fuel prices via U.S. Department of Energy, 2020).

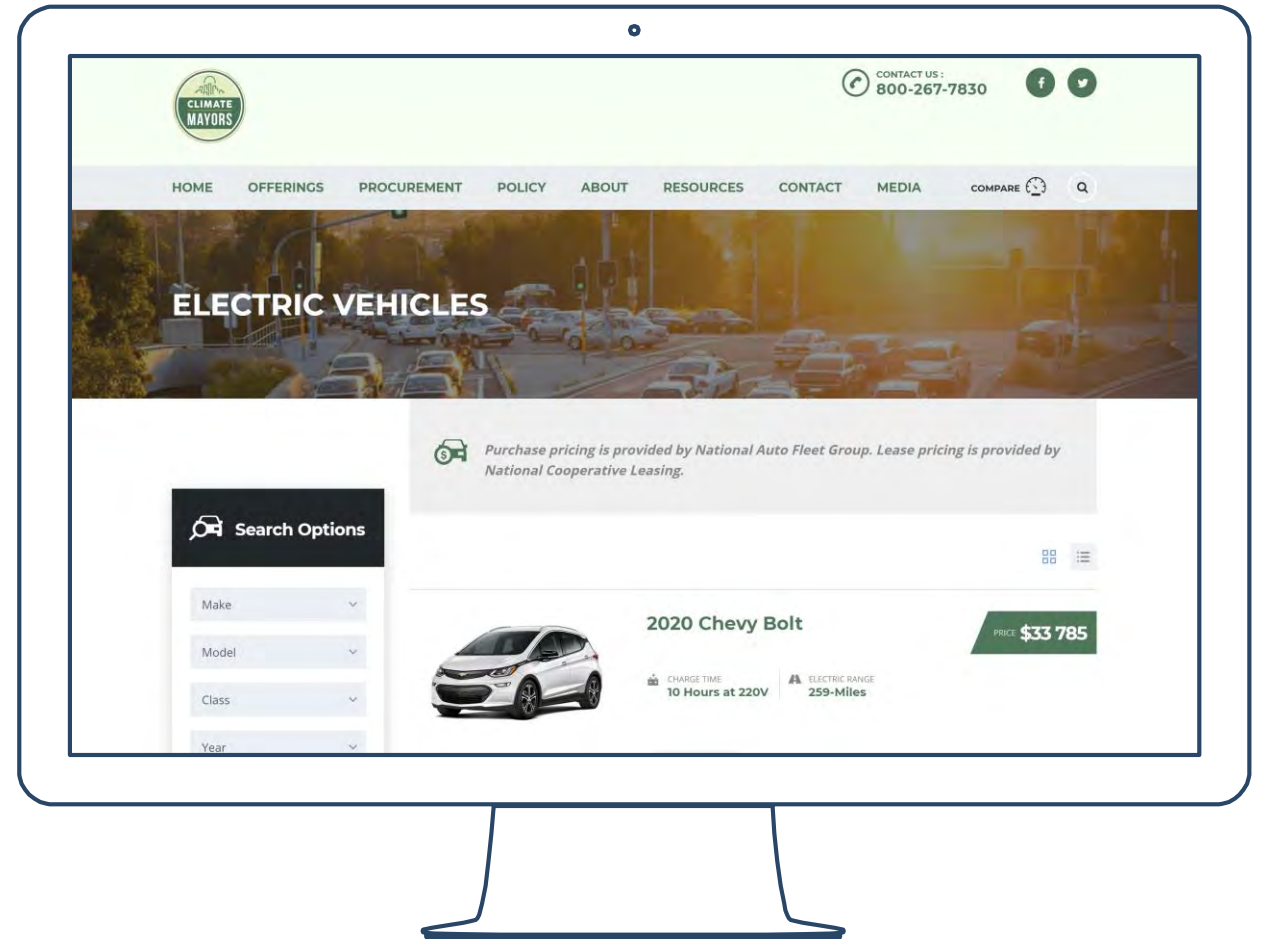
**CO2 equivalent, annual well-to-wheel emissions

Fleet and Procurement Tools

- Browse available light duty EVs, school buses, sweepers, and more
- Compare vehicles side by side
- EV procurement and policy resources
- Electric vehicle FAQs

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www.DriveEVfleets.org



Light-Duty Vehicle and EVSE Options



2020 CHEVY BOLT

\$33 785

10 Hours at 220V ⚡ 259-Miles 🚗



2020 KIA NIRO

\$39 993

9.5 Hours at 240V ⚡ 239-Miles 🚗



2020 KIA NIRO PLUG-IN HYBRID

\$29 135

2.25 Hours at 240V ⚡ 26-Miles 🚗



2020 BMW i3-CLICK HERE FOR PRICING ...



2020 FORD ESCAPE PLUG-IN HYBRID-CLI ...



2021 HONDA CLARITY PLUG-IN HYBRID-C ...

chargepoint®

greenlots
A Member of the Shell Group

lily pad
EV

SIEMENS

Webasto

Electric School Buses, Sweepers, & More



City Case Studies

Ann Arbor, MI

“On both policy and technical fleet aspects, we’ve been really grateful for the connection to other cities that are working to advance similar issues. The peer-to-peer learning opportunities that the Electrification Coalition provided through the Collaborative have been instrumental.”

- Emily Drennen Sustainability Analyst, City of Ann Arbor, MI

Winter Park, FL

- Replaced 5 vehicles with Nissan LEAFs
- Leasing through the Collaborative saved the city \$1,200 per vehicle

Cincinnati, OH

- An analysis showed that replacing vehicles with EVs would save up to \$150,000 in operational costs and avoid 1,450,000 pounds of emissions
- Purchased 19 vehicles in 2020

Chula Vista, CA

- Added 34 PHEVs and EVs to their fleet in 2019
- Reduced fuel costs by 75%

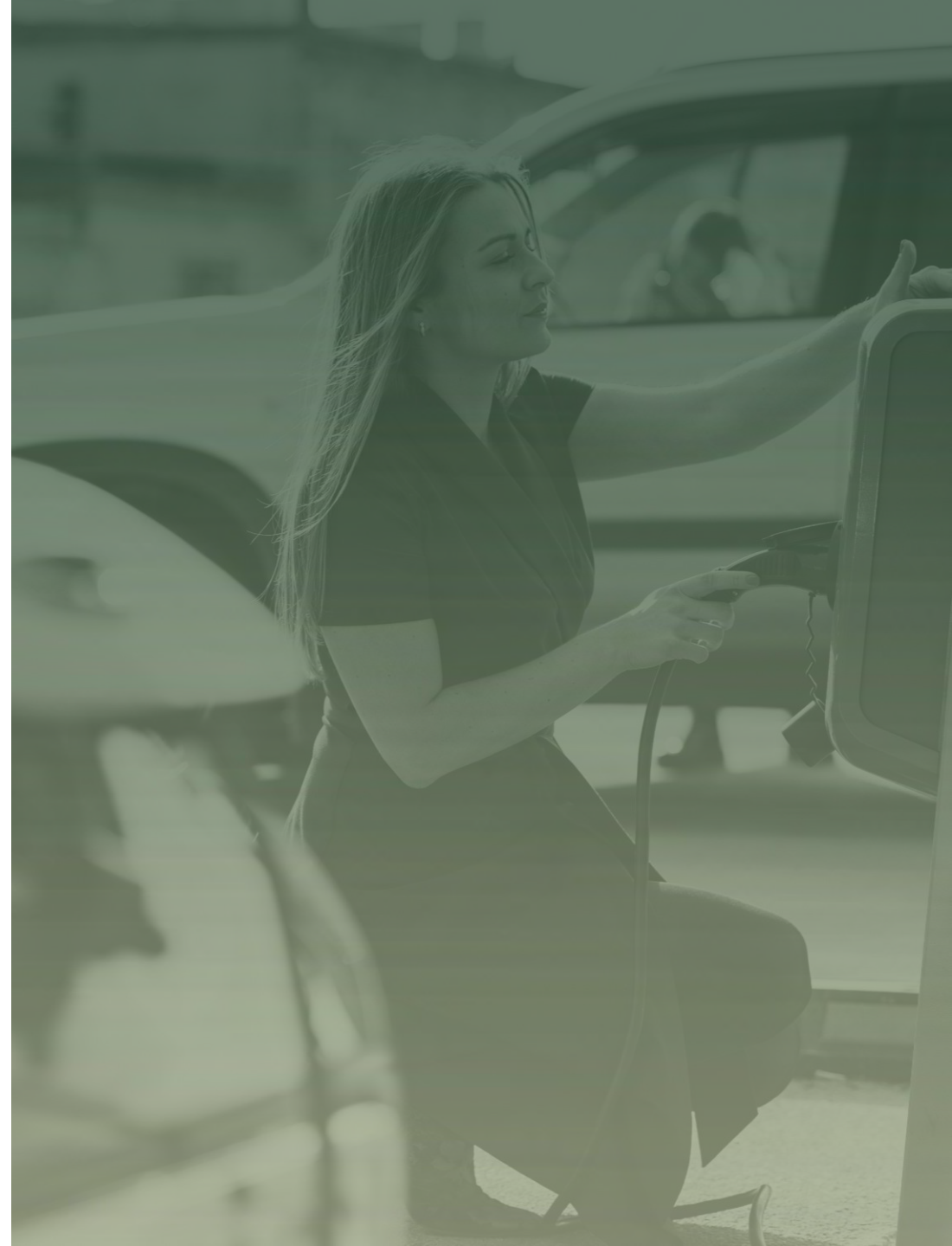
Binghamton, NY

“It comes down to two fuel bills evaporating completely... even if the scenario just breaks even, we still think the investment is worth it.”

- Jared Kraham, Deputy Mayor

Next Steps

- 1 Reach out to me about making a meaningful commitment to fleet electrification!
- 2 Check out DriveEVFleets.org to see vehicle and infrastructure options and resources.
- 3 Talk to Electrification Coalition fleet experts about the guidance and support you need.
- 4 Contact us if you would like to participate in a fleet electrification case study!



Over 200 public entities across the country have joined!

Thank you!

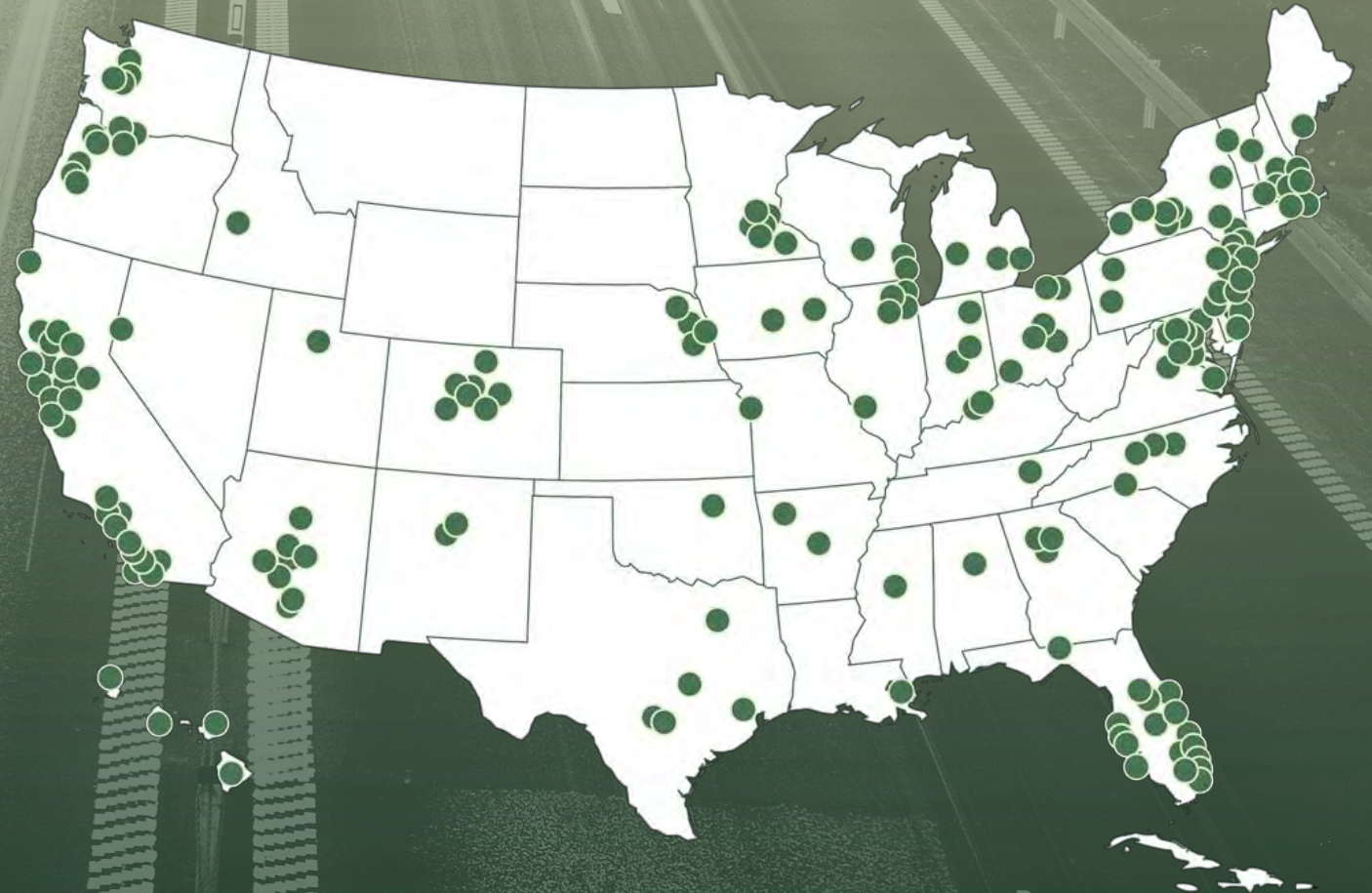
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