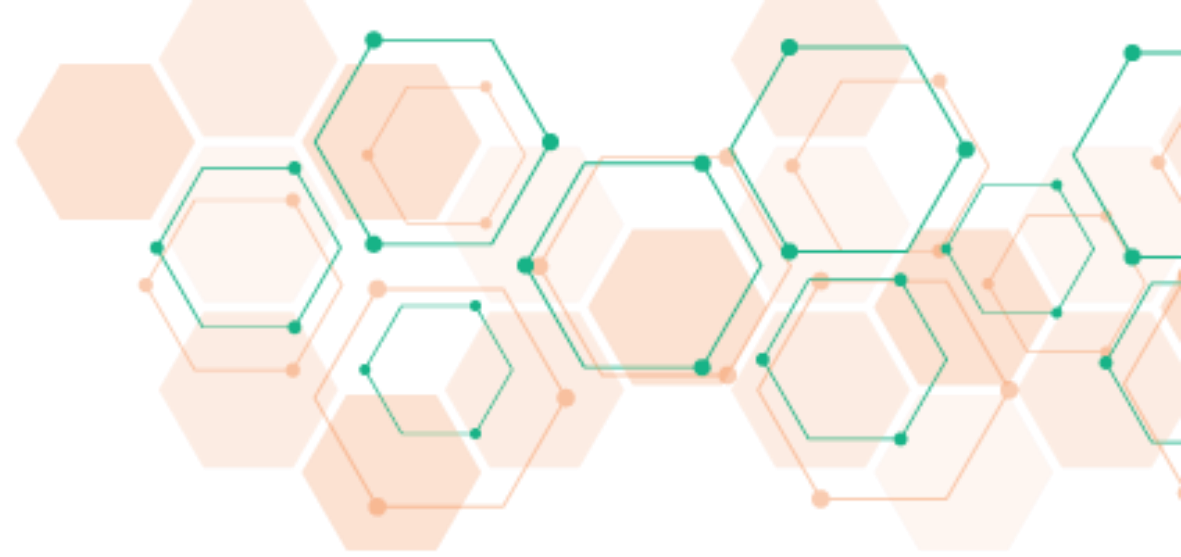




**Ohio Electric Vehicle
Policy, Planning, and
Infrastructure**

Electric Vehicles: Key Topics

- How many EVs and when?
- Addressing long range revenue issues
- Federal funding for EV charging infrastructure

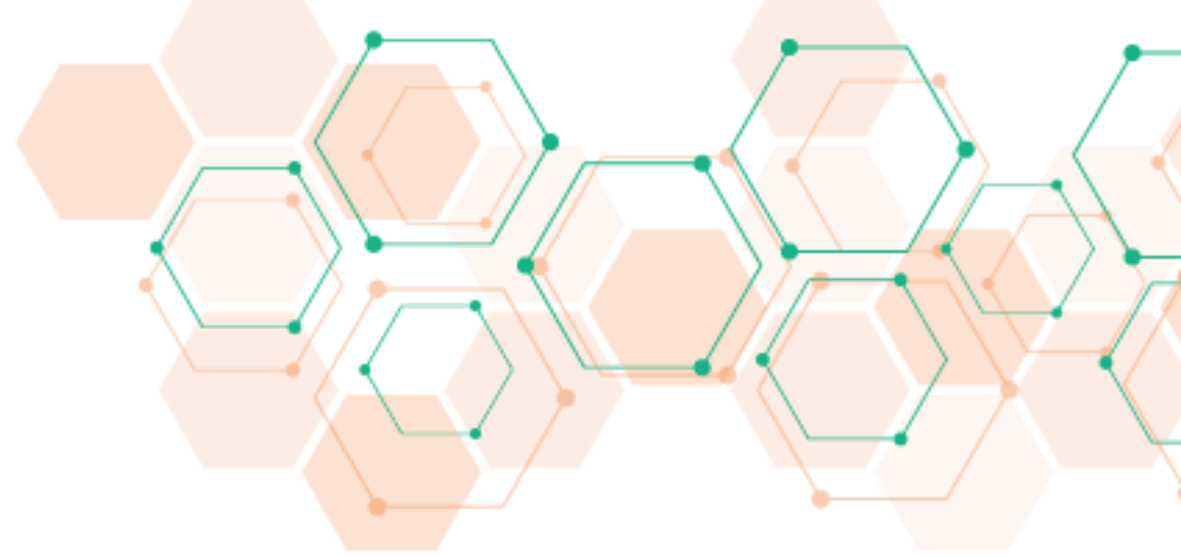


How Many EVs and When?

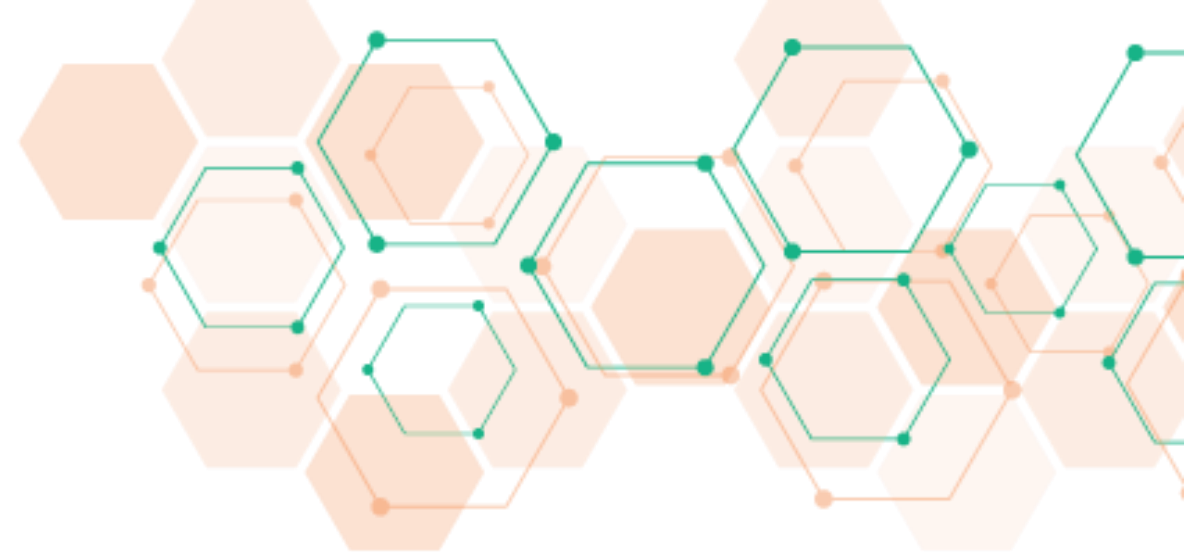


What Percent of Ohio Passenger Vehicles are EVs?

- 11%
- 8%
- 5%
- 2%
- Less than 1%



EV Sales Trends and Forecasts



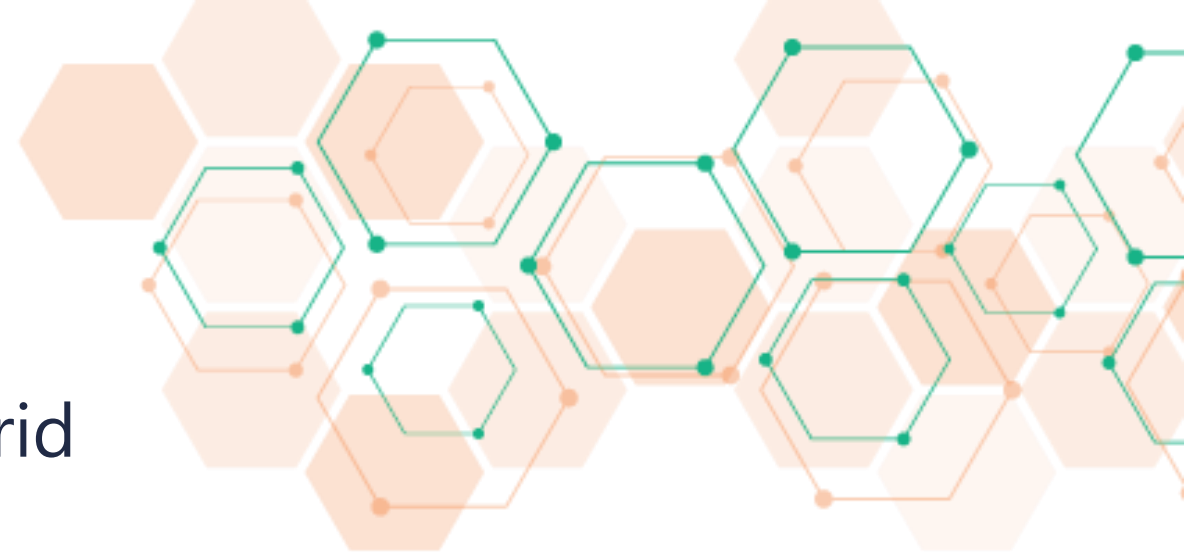
- Ford: "Carbon neutral by 2050"
- General Motors: "plans to stop selling gas and diesel vehicles by 2035"
- Stellantis: "40% of American sales will be either battery electric or plug-in hybrid within four years"
- Honda: "by 2040 all gas cars will be phased out"

Addressing Long Range Revenue Issues



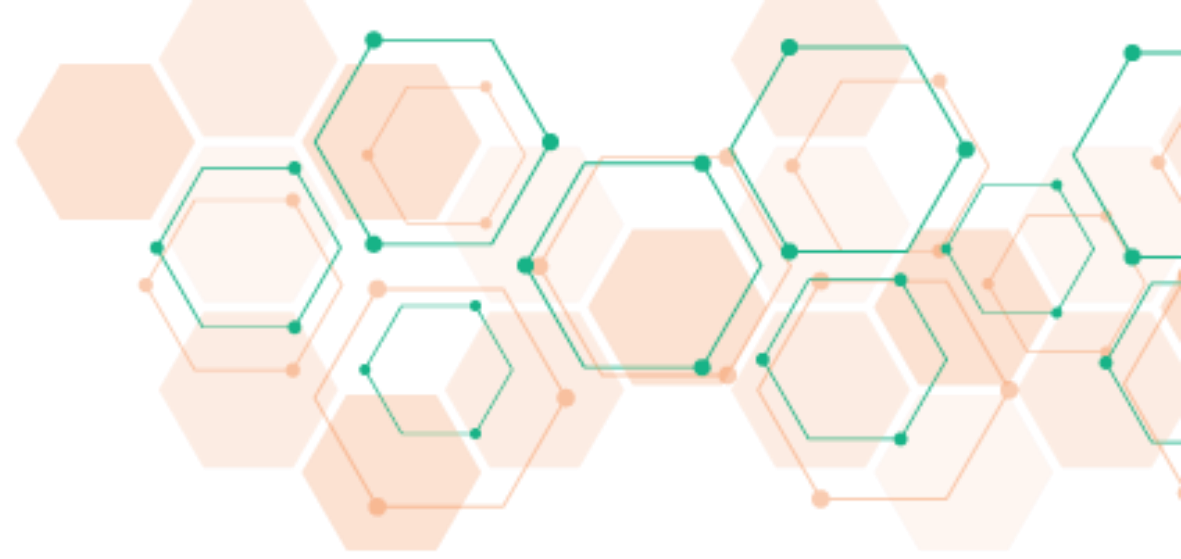
EV and Hybrid Registration Fee

- \$200 annually for EV, \$100 for hybrid vehicles
- From January 2020 – December 2021 (about two years)
 - EV registration revenue \$10.4M
 - Hybrid registration revenue \$22.7M



Future Transportation Revenues

- Federal Grant – Surface Transportation System Funding Alternatives Study
- Identify fuel tax alternatives and garner public feedback
- Consider the universe of options: registration fees, mileage-based use fees, etc.





**Federal Funding for
EV Infrastructure**

**THE GOOD
AND THE BAD
AND THE UGLY**



Three Federal “Pots” of Money for EV Charging

- National EV Infrastructure (NEVI) Formula Program
 - Limited to Alternate Fuel Corridors
 - \$140M to Ohio over five years
- Two discretionary grant programs (\$2.5B nationwide); no guidance yet released



Contracting

“FHWA anticipates that ... States will elect to contract with private entities for the installation, operation, and maintenance of EV charging infrastructure” (*Guidance p. 13*)



Blink Charging Station

Program/Project Administration

- NEVI program funds “shall be administered as if apportioned under USC 23 Chapter 1.”
 - Real estate / uniform act
 - NEPA
 - Buy America
 - DBE participation
 - Etc.

ELECTRIC VEHICLES

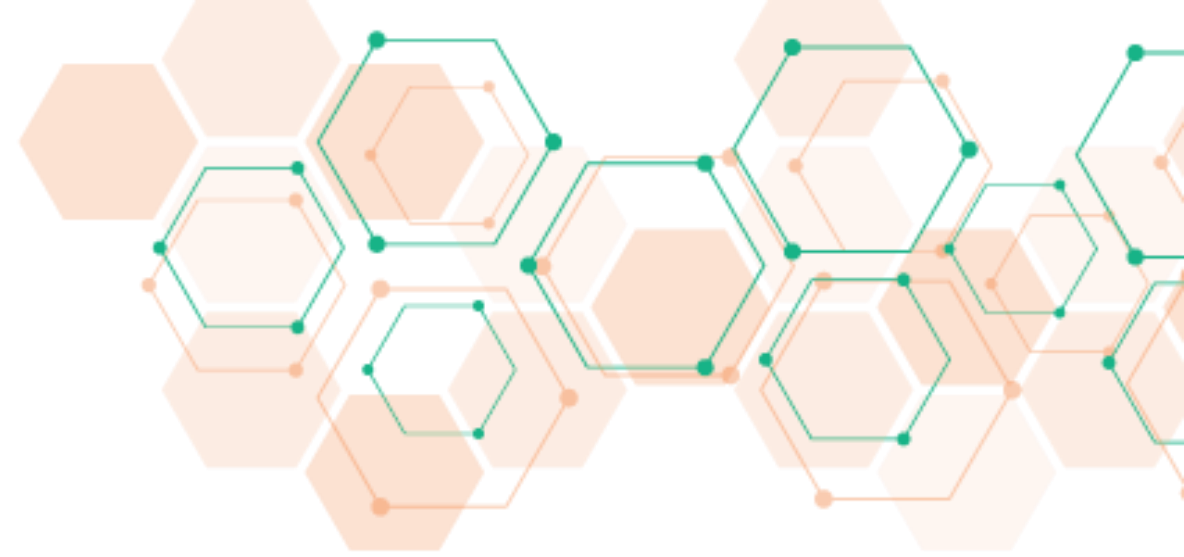
Four top EV charging companies on their plans to win federal funds

The Biden admin recently gave guidance on how states should distribute \$5 billion of the infrastructure bill funds.



Federal Mandates for EV Charging Equipment

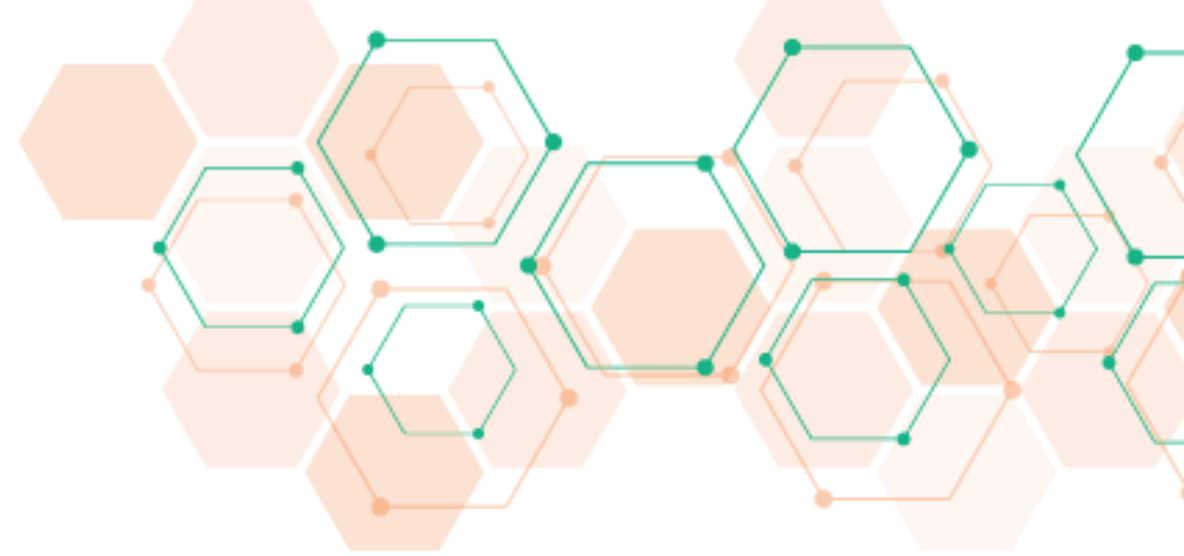
- DC Fast Charge with minimum of 4 ports
- Non-proprietary charging plugs
- Uptime requirements
- Payment requirements
- Network administration
- Cybersecurity requirements
- And more!



EVgo Charging Station

How Will We Deliver EV Infrastructure?

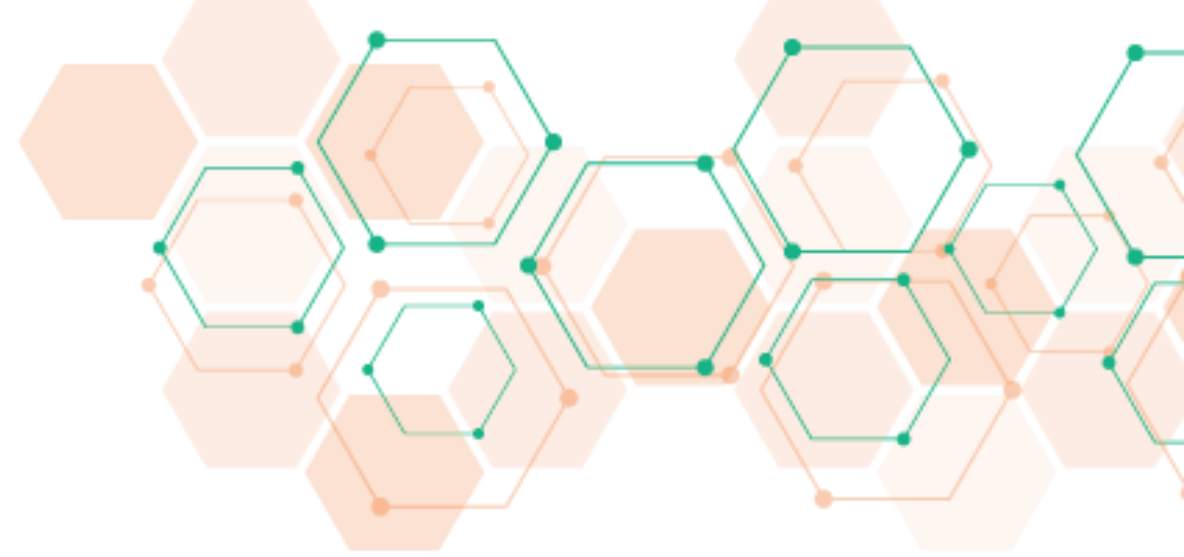
- ODOT will identify locations and negotiate with property owners
- Design: site plan with power location and other details
- Prequalify EV charging infrastructure vendors(?)
- Alternative delivery that combines DBOM, BOM, or other phase(s)



Electrify America Charging Station

Work Types

- Walks, curb ramps, and steps
- Traffic signing
- Pavement marking
- Trenching electrical conduit
- Concrete footings
- Landscape items



ChargePoint Charging Station

The background is a warm, golden-yellow color with a textured, painterly style. It features several portraits of men in Western attire. In the upper left, a man with a mustache and a wide-brimmed hat looks upwards. In the upper right, a man with a mustache and a cowboy hat looks forward, holding a revolver. In the lower right, a man with a beard and a cowboy hat looks directly at the viewer. In the far right, a small figure of a cowboy on a horse stands in a landscape. The overall mood is nostalgic and heroic.

THANK YOU!

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