



Montgomery County Zero-Emissions Vehicles



www.MontgomeryCountyMD.gov/ZEV

The Goal: Zero-Emissions Transportation

Montgomery County's **Climate Action Plan** sets a goal to reduce greenhouse gas emissions by 80% by 2027 and 100% by 2035. With road transportation accounting for 36% of emissions in the County, this will require:

1. Encouraging greater use of transit, cycling and shared mobility options
2. Electrifying public transportation and the County vehicle fleet
3. Supporting a transition to zero-emissions vehicles (ZEV) for residents and businesses

Why Electric Vehicles?

The “Electric Vehicle Revolution” is underway. Electric Vehicles (EVs) offer many benefits compared to internal combustion engine (ICE) vehicles:



Zero tailpipe emissions and clean, quiet engines



Lower cost of ownership from electricity and maintenance costs



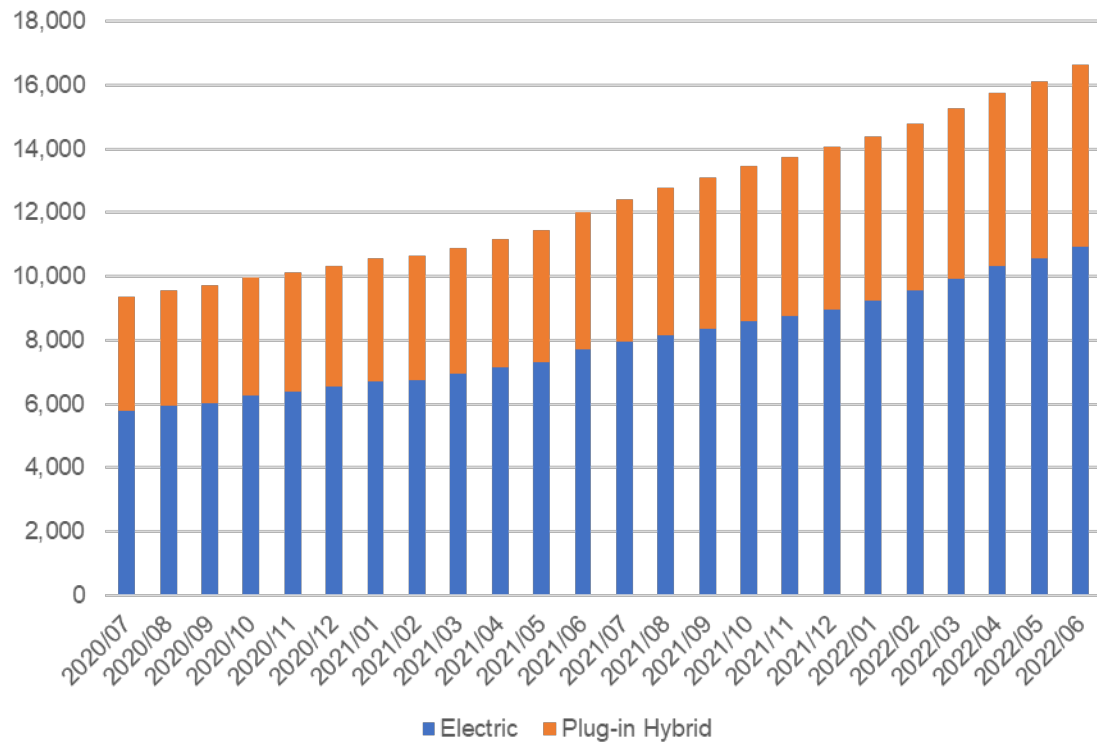
Convenient charging at home, work, or your destination



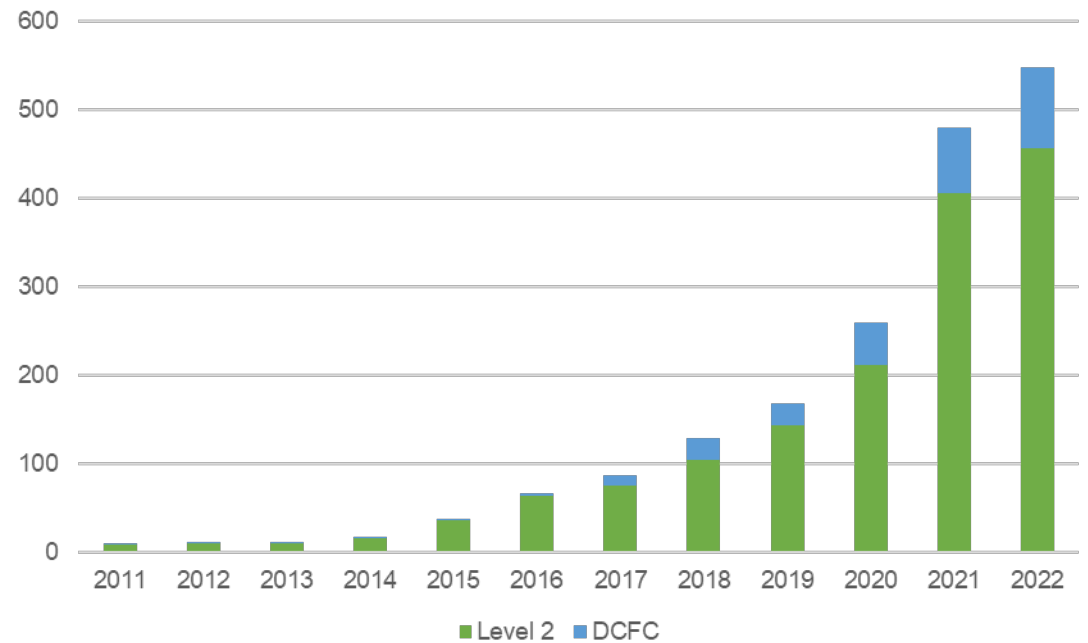
Fast acceleration, powerful performance

Montgomery County EV Data

Plug-in Vehicle Registrations in Montgomery County



Public EV Charging Plugs in Montgomery County



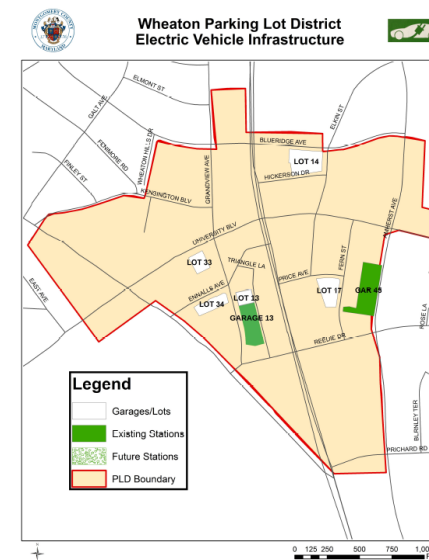
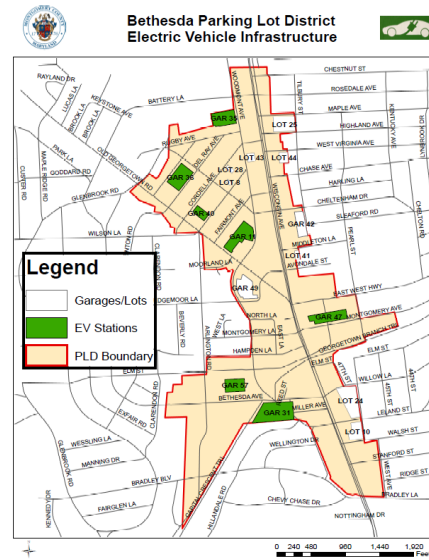
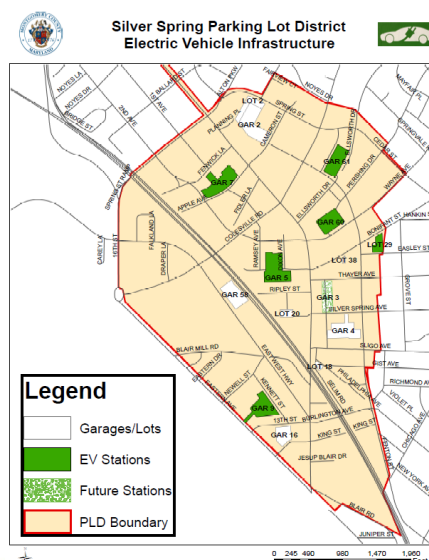
EVs 1.7% of total registrations in 2021, but 9.5% of new vehicle registrations over last 12 months.

Public Charging Infrastructure

Over 500 public charging plugs in Montgomery County, including 90 DCFC

Montgomery County is expanding EV charging at County facilities and parking garages

- 20 Level II charging stations in County parking facilities in Bethesda, Silver Spring, and Wheaton (\$0.13/kilowatt hour plus parking fees)
- Contract in development to install over 60 additional stations at public facilities across the County



Montgomery County Fleet

Electric Buses

- Ride-On currently operates 4 battery-electric buses (BEBs), 10 more BEBs are on order
- A request for proposals on a 3-year, 86-bus procurement will be issued in FY23
- The County is building a [5.6 Megawatt \(MW\) solar-powered microgrid](#) to support BEB charging at the Brookeville Smart Energy Bus Depot

Passenger Vehicle Fleet

- The County has 45 passenger EVs in service with an additional 50 ordered in FY22
- Planning to order another ~50 in FY23 conditional on approved funding and vehicle supply
- There are approximately 900 non-public safety light-duty vehicles in the County fleet

Electric Vehicle Purchasing Co-op

Montgomery County launched the EV Purchasing Co-op (EVPC) in January 2022 to help the private sector transition to electric vehicles. Pledge to make your next vehicle electric!

Why Make the Pledge?

1. Show **strong demand** for EVs to negotiate dealer incentives
2. Get connected to a **local community** of EV experts and drivers
3. Get up-to-date information about EV technology, local charging networks, and available incentives through the **newsletter and ZEV website**
4. Opt-in to be contacted by enthusiastic, knowledgeable dealers in the **Electrified Dealer Network**

Make the Pledge on our website:
www.montgomerycountymd.gov/zev



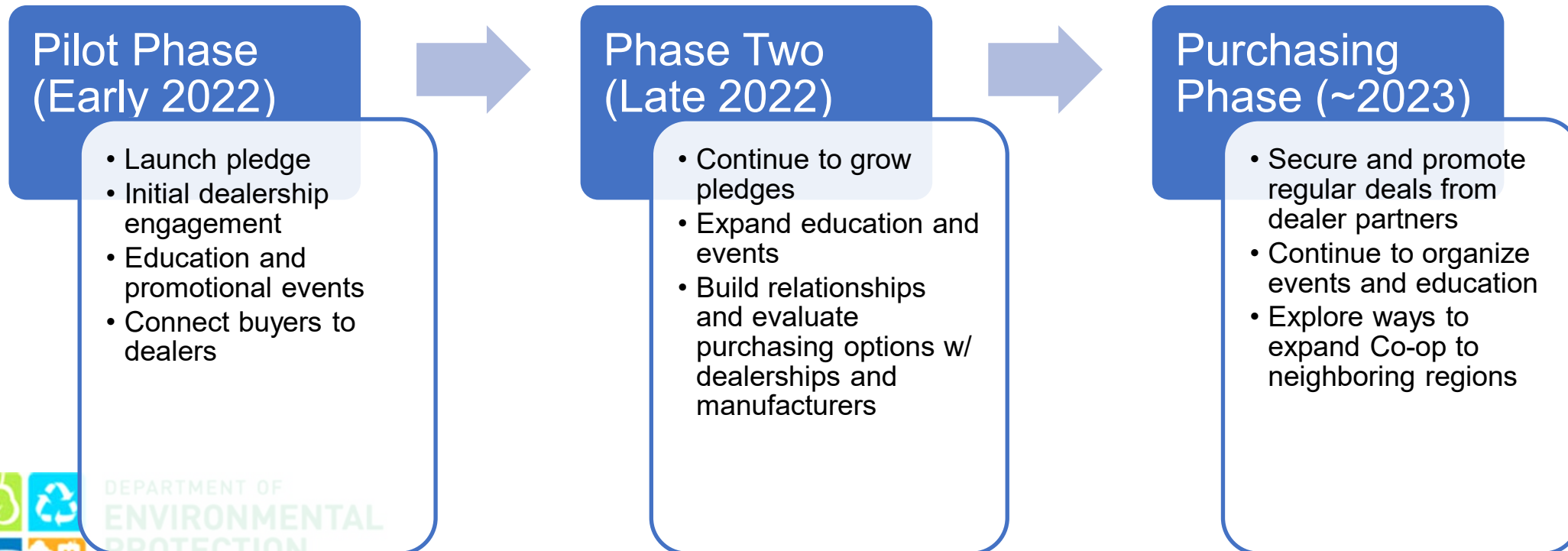
In the Network today:
25 dealership locations
representing 15 auto
brands



EVPC Bulk Purchases: What's next?

The EVPC has completed a pilot phase to evaluate interest from residents, businesses, community partners, and auto dealerships. **As of June 2022, over 1,000 residents and business have signed the pledge!**

The goals of the next phases of the EVPC will be to leverage pledges to negotiate discounted prices for new and pre-owned vehicles and other special offers from local businesses.



Installing Charging

- [Department of Permitting Services](#) provides guidance on applying for permits to install residential and commercial EV charging. Commercial projects require a building permit and an electrical permit.
- Residents in single family homes without off-street parking can apply for a permit to [install curb-side EV charging in the public right-of-way](#), with some conditions.
- Planning webinar to engage and educate multifamily property owners, Condominium Associations and Townhome Homeowners Associations (HOAs).

Incentives for Commercial Charging

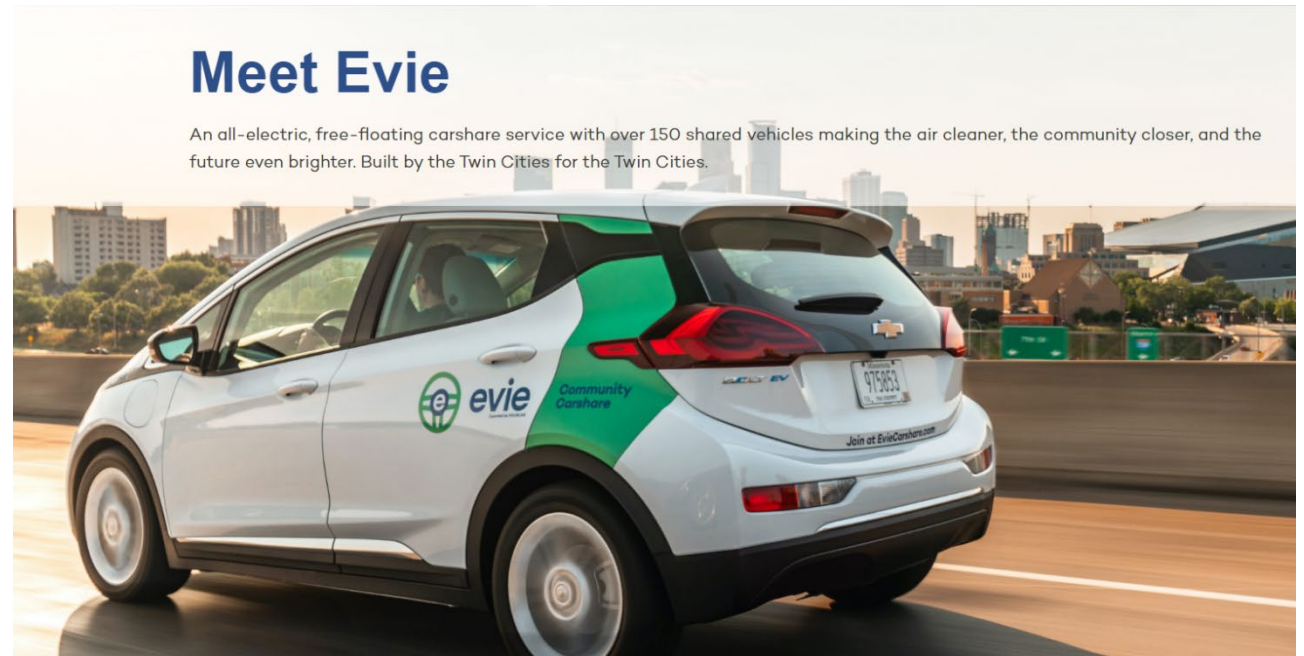
Program	Details
Maryland EVSE Rebate Program (administered by MEA)	Rebates 40% of cost of installation and equipment, up to a maximum of \$4,000 per charger, with \$180,000 cap per applicant. Total funding \$1.8 million for SFY23 – expected to run out very quickly.
Charge Ahead Grant Program (administered by MDE under the VW Settlement)	Grants for workplace, retail charging up to \$4,500 per Level 2 EV charger and \$600,000 per applicant. CAGP funding is available for costs directly attributable to the design, installation, and operation of eligible workplace EV charging stations. Round 3 expected in Fall '22 or Spring '23.
NEVI Grants (administered by MDOT)	Grants for eligible public DC Fast Charger projects along state and federal highways. Funding up to 80% of project. Initial program will focus on sites <1 mile from highway interchanges. Later phases will expand community charging. Application process TBD.
Pepco Multifamily Rebate	Up to \$15,000 per charger for multifamily buildings with 3 or more units. At least 70 projects still available for funding.
Montgomery County Green Bank	Low interest financing products that can provide bridge loans until rebates/grant funding is received.

EV Car Sharing

DEP is exploring models for EV Car Sharing programs, particularly aimed at expanding access to EVs for low income and disadvantaged communities.

Example: Evie Carshare in Minneapolis and St. Paul, Minn.

Next steps: Study best practices, engage local stakeholders for input, identify partners.



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