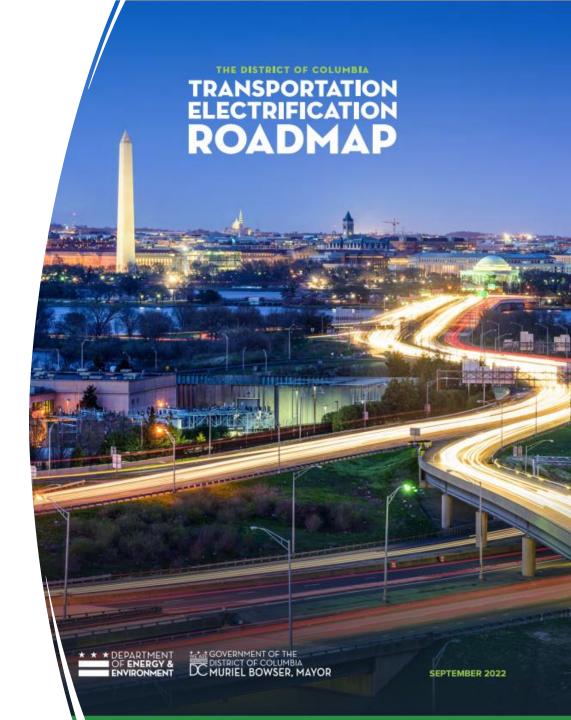
Electric Vehicle Charging in the District of Columbia



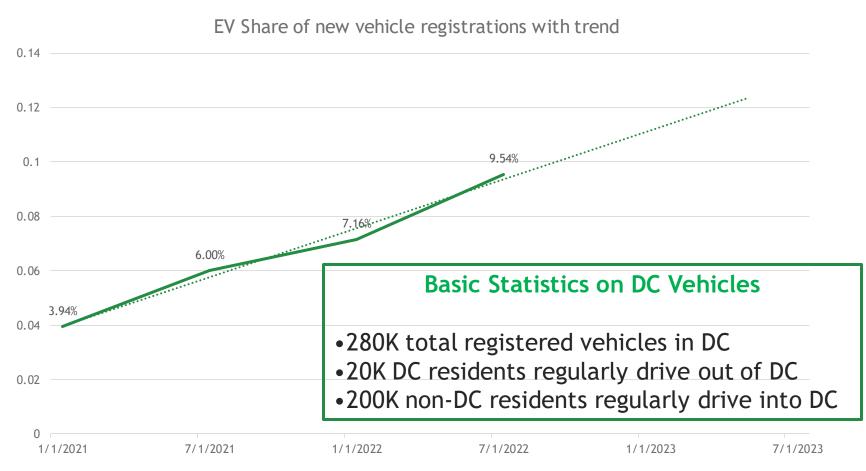




Roadmap published Late 2022

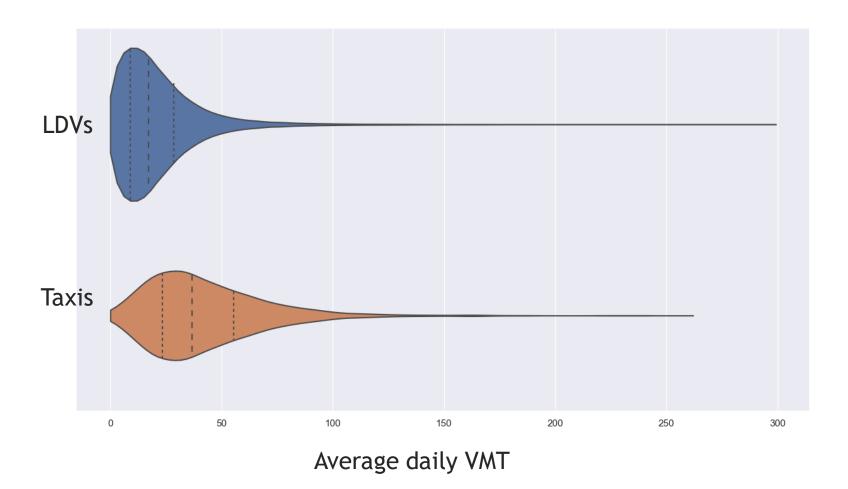


Projections of DC EV Registration using all data



Using all data available, approximately 11.15% of new vehicles will be EVs in DC the January 2023 registration dataset.

VMT profile of DC drivers



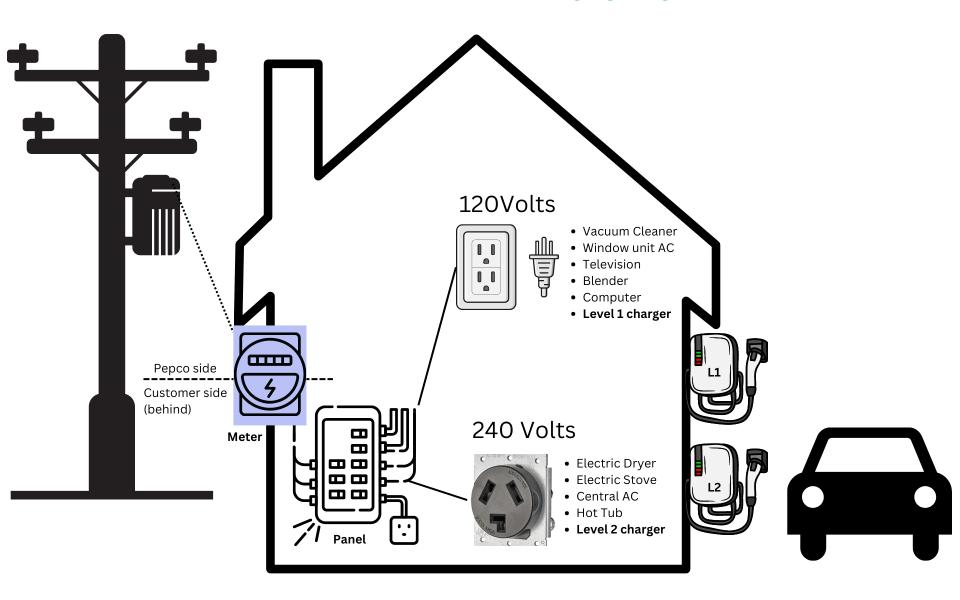
LDV = Light Duty Vehicle

EV Charging Levels



About 80% of EV charging happens at home

Electric Vehicle Home Charging Diagram



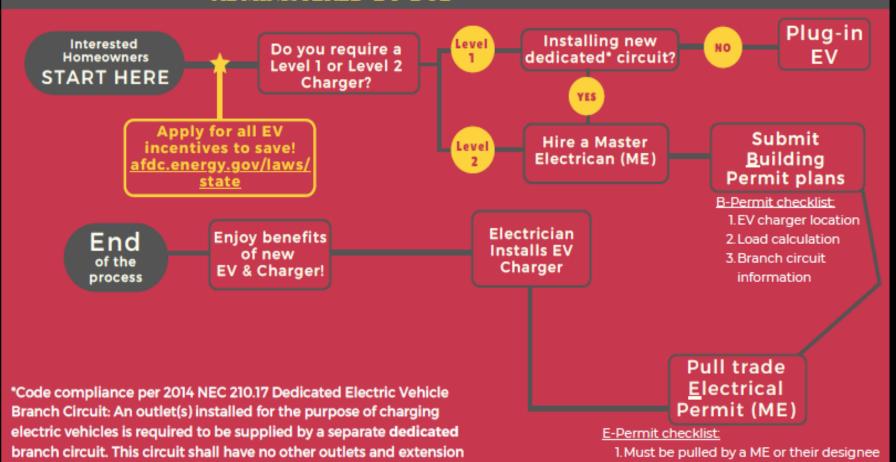




cord usage is prohibited for fire and electrical safety.

ELECTRIC VEHICLE CHARGER PERMITTING PROCESS

ADMINISTERED BY DOB



2. Select the "battery charger" category

What does it cost to install Public Charging Stations?

Pepco is authorized by the Maryland Public Service Commission to install, operate and maintain public charging stations in Montgomery and Prince George's County. According to a report submitted by Pepco to the MD PSC on 2/1/23, the average labor & materials cost to install public charging station ports is:

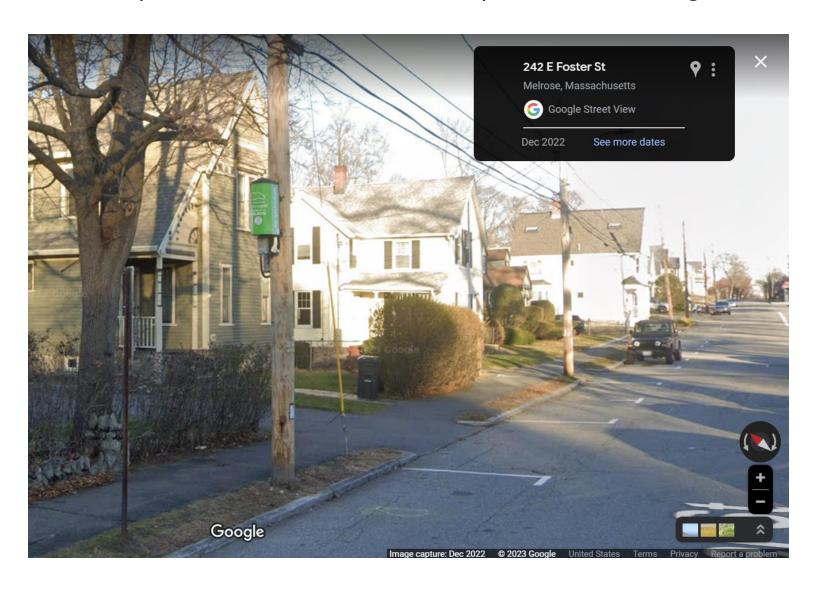
Level 2: \$29,259

DC Fast Charging (Level 3): \$145,022



Pole Mounted Charging

A WRI report stated that costs to install pole-mounted chargers are 55% lower















Existing DC, Federal, and Pepco Electric Vehicle Incentives

DC Incentives

- Excise Tax Fully-electric vehicles are **exempt from DC Excise Tax** (otherwise 1% to 10.1% of vehicle purchase price depending on weight/mpg)
- <u>Alternative Fueling Infrastructure Credit</u> **50% of the allowable costs** for the purchase/installation of charging station. Credit shall **not exceed \$1,000 per station at a private residence; \$10,000 per station on non-residential property** designed for use by the public.
- Federal Government Incentives
- <u>Vehicle Tax Credit</u> credit up to \$7,500 for new qualified vehicles/purchasers; qualified used EV's/EV purchasers may be eligible for one-time \$4,000 credit.
- <u>EV Charger Tax Credit</u> a nonrefundable tax credit of **30% of the hardware and installation costs** for EV chargers installed at residence with a **maximum of \$1,000**.
- <u>Charger Grant Programs</u> \$17m in NEVI award; potential up to \$15m CFI competitive grant
- Pepco DC Incentives EV Smart Program
 - Whole House Time of Use Rate residents can save money when charging during off-peak hours, when electricity prices are lower.
 - <u>Public Charger Program</u> Pepco installs utility side infrastructure to support public charging

Additional Relevant Electrification Incentives that Support Electric Vehicles

Federal Incentives - Inflation Reduction Act

- Home Energy Rebates Around \$60m to be administered by DOEE
 - Electric Panel Upgrade up to \$4,000
 - Electric Wiring Installation up to \$2,500
- Electrification Tax Credit electric panel (\$600)

*Please note that all the existing Federal and District Government incentives for work behind the utility meter are designed for the https://www.neer.no.nd/ designed for the home-owner to own the upgrade.



Planned DOEE Near-Term Actions to Support Electric Vehicles

- By September 2023 (1 year), identify 200 locations to install EV charging infrastructure to prioritize EV adoption, through incentives & priority funding, in areas historically overburdened by poor air quality.
- Build out public Level 2 charging by increasing chargers at a 2% ratio of District-registered EVs by 2025 w emphasis on Wards 5, 7 & 8.
- Build out workplace Level 2 charging by increasing chargers to 2% of estimated commuters driving into DC by 2025.
- Expand public EV charging by deploying chargers at 50 District-owned properties such as libraries, parks, & recreation centers, by 2025 w emphasis on Wards 5, 7 & 8.
- Pursue or develop grant opportunities (e.g. CFI) to fund pilot projects that support vehicle electrification & future of gas stations.
- Partner w National Park Service & federal agencies to install EV charging stations in parking lots by recreation sites, such as Fort DuPont Park & Rock Creek Park, & at National Arboretum, by 2025.

Chargers in DC per US DOE

Public Chargers					
Level 1		level 2		DC Fast Charge	
stations	ports	stations	ports	stations	ports
2	. 5	257	766	7	44
Total Stations		266			
Total Ports		815			
6					
Private Chargers					
Level 1		level 2		DC Fast Charge	
stations	ports	stations	ports	stations	ports
8	24	41	108	1	2
Total Stations		50			
Total Ports		134			







CFI Application by the numbers



CFI Application by the numbers



7 Projects

DC-owned sites, Shell/Volta, Georgetown U, Zipcar, Itselectric, bp pulse/uber/hertz, Capital Bikeshare



257 sites

40 electrified CABI stations, 89 upgraded ZipCar sites, 100 Itselectric sites, 1 university bus depot, 1 large for hire vehicle hub



Capacity to simultaneously charge 335 EVs

293 Level 2 ports plus 42 Level 3 ports



Approx \$15M in Federal Funds requested

Over 20% in local "matching" funds

Federal NEVI Program (DDOT)

- Publicly accessible Level 3 EV chargers along designated corridors
- \$16.6M formula funding over 5 years from USDOT. \$2.4M in FY22 & additional funding yearly thru FY26. Unused \$\$ rolls over to the next year.
- Currently in planning/hiring phase
- Projects directly related to EV charging:
 - upgrading existing & constructing new EV charging infrastructure
 - installation of on-site electrical service equipment
 - community and stakeholder engagement
 - charging station signage
 - data sharing, and related mapping analyses.

Council Legislation 25-0106

- "Comprehensive Electric Vehicle Infrastructure Access, Readiness, and Sustainability Amendment Act of 2023"
- As introduced, mandates 7,500 public EV charging stations by 2027
- Right to charge (tenants & condo owners)
- Consideration during Streetscape planning
- Grant provisions to subsidize installation of EV charging infrastructure on private property
- Grid capacity study
- EV chargers & EV ready in new buildings
- Public hearings held on 7/10 & 7/12

Questions?

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