

MID-COURSE REVIEW – PERFORMANCE INDICATORS AND CASE STUDIES (CONTINUED)

Assessing Progress Toward Regional 2030 Climate Goals

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Climate, Energy and Environment Policy Committee (CEEPC) Meeting
January 28, 2026



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Midcourse Review (MCR) Approach

Goal: Assess the status of goals, strategies, measures and actions toward the region's existing plan framework and targets.

CEEPC Meeting	Topic
January 2025	Midcourse Review Approach
March 2025	Renewable Portfolio Standards
May 2025	Local Government Questionnaire
July 2025	2023 Greenhouse Gas (GHG) Inventories
Sept '25 - Jan '26	Performance Indicators & Case Studies
March 2026	Draft Midcourse Review Report

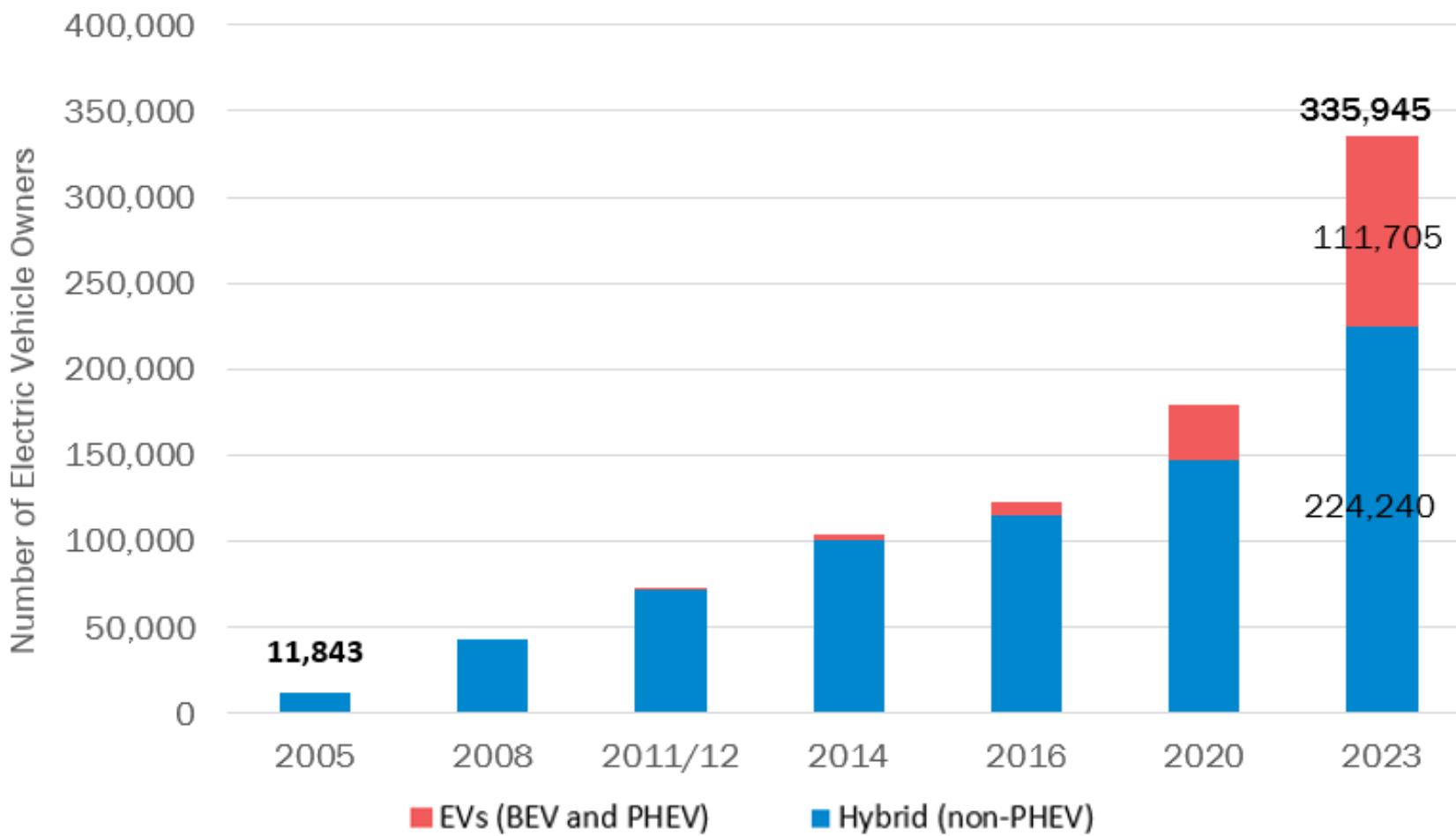


MCR Performance Indicators

Sector	Performance Indicator
Greenhouse Gases (GHG)	Greenhouse Gas Emissions Contribution Analysis (drivers of GHG change)
Clean Electricity (CE)	Carbon Intensity of the Grid Grid Connected Renewables
Zero Energy Buildings (ZEB)	Building Energy Consumption Green Buildings
Zero Emissions Vehicles (ZEV)	Electric Vehicle (EV) Ownership EV Charging Stations and Ports
Mode Shift and Travel Behavior (MSTB)	Vehicle Miles Travelled Transit Ridership
Zero Waste (ZW)	Waste Diversion Rate
Sequestration (SQ)	Tree Canopy Coverage



ZEV - Regional Total EV Ownership Trends



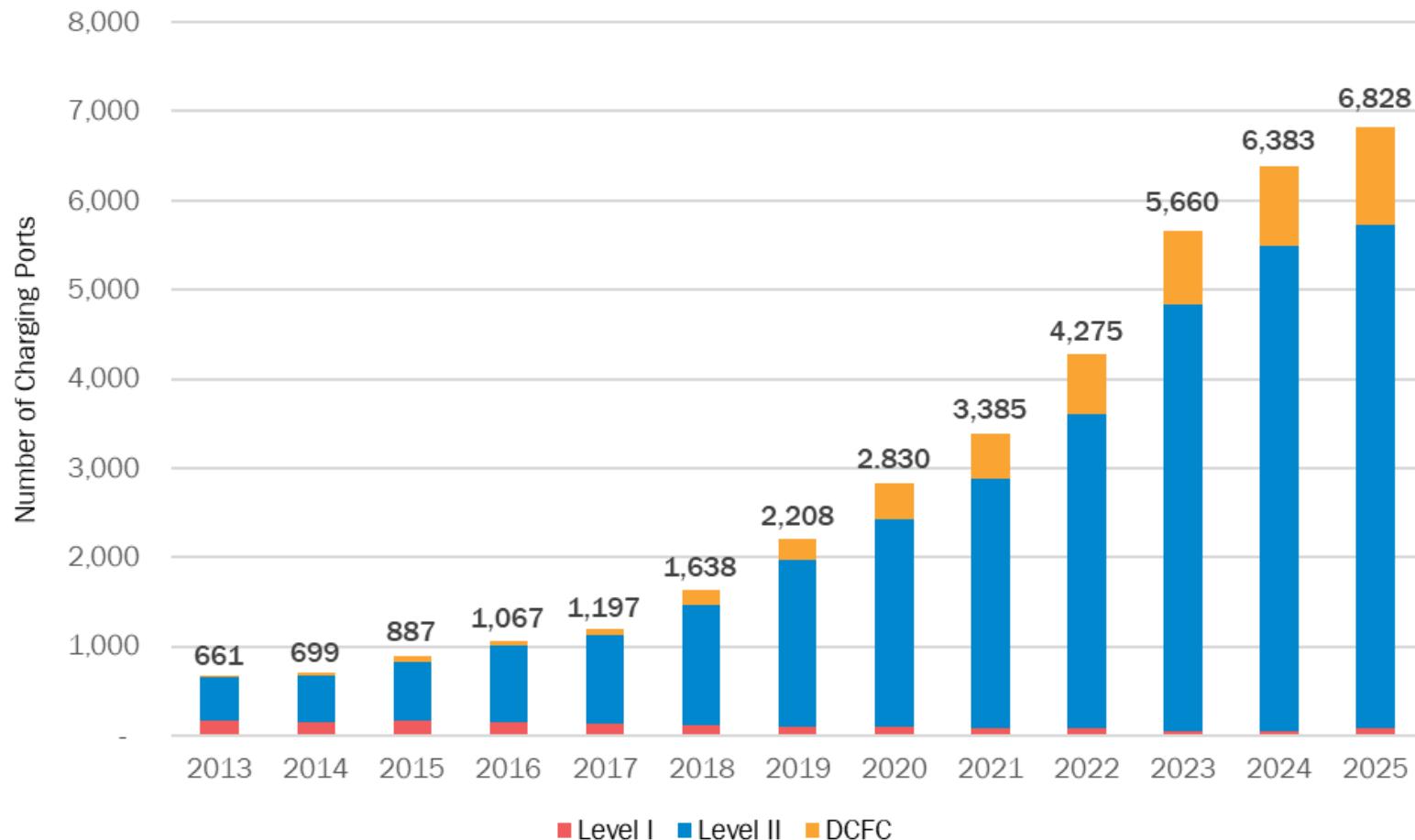
ZEV – 2023 Local Jurisdiction EV Ownership

Jurisdiction	HEV	PHEV	BEV	PHEV + BEV	LDC	LDT	LDC + LDT
City of Alexandria	8,558	1,004	2,254	3,258	57,771	61,553	119,325
Arlington County	11,279	1,491	3,558	5,049	65,027	73,088	138,115
Charles County	4,554	397	1,225	1,622	63,200	74,502	137,702
District of Columbia	20,290	3,487	7,139	10,626	134,531	138,262	272,794
Fairfax County	58,567	6,806	22,249	29,055	380,838	486,770	867,608
Frederick County	10,332	1,521	3,268	4,789	93,463	135,064	228,527
Loudoun County	20,729	2,517	11,581	14,098	132,480	198,281	330,760
Montgomery County	48,578	8,414	19,734	28,148	336,173	409,204	745,377
Prince George's County	21,049	2,255	5,872	8,127	311,642	330,170	641,811
Prince William County	20,304	1,692	5,241	6,933	185,409	229,190	414,598
Regional Total	224,240	29,584	82,121	111,705	1,760,534	2,136,083	3,896,617

HEV = Hybrid Electric Vehicle (EV), PHEV = Plug-In HEV, BEV = Battery EV, LDC = Light Duty Car, LDT = Light Duty Truck

ZEV - Regional Trends in EV Charging

Metropolitan Washington EV Charging Ports Growth Trends



ZEV – 2025 Local Jurisdiction EV Chargers and Ports

Jurisdiction	# of Station Locations	Number of Ports			
		Level I	Level II	DCFC	Total
Arlington County	225	8	670	44	722
Charles County	39	-	63	29	92
City of Alexandria	74	1	203	10	214
City of Fairfax	16	-	23	27	50
City of Falls Church	24	-	47	6	53
City of Manassas	13	-	21	10	31
City of Manassas Park	-	-	-	-	-
District of Columbia	415	30	1,301	60	1,391
Fairfax County	412	17	960	245	1,222
Frederick County	70	-	150	75	225
Loudoun County	178	2	356	134	492
Montgomery County	380	7	958	165	1,130
Prince George's County	292	13	751	200	964
Prince William County	89	1	149	92	242
Regional Total	2,227	79	5,652	1,097	6,828



ZEV Case Study #7: Fairfax County

- **Description:**
 - [Charge Up Fairfax](#) is a program that homeowners associations (HOAs) and other community organizations install EV charging stations. The program provides free technical assessments, and reimbursement grants to cover some expenses.
 - Communities can leverage Charge Up Fairfax and Dominion's Level 2 Program to reduce installation and maintenance costs of charging stations.
- **Outcomes:**
 - 17 communities have participated in the program. 5 communities have successfully completed their charging station installations.
- **Benefits:**
 - Incentivizes residents of the neighborhood to consider buying an EV.
 - Simplifies regulatory processes and coordination efforts between stakeholders.



EV charger ribbon cutting at Reflection Homes Association in Herndon, Virginia (Source: [Fairfax County](#))

ZEV Case Study #8: Bladensburg

- ***Description:***

- In 2023-2024, EV charging stations were installed at multiple city buildings including, Bladensburg Town Hall, Bladensburg Community Center, and Bladensburg Branch Library

- ***Outcomes:***

- Supports more electric vehicles in the area and opportunities for those traveling within the area to access charging in a safe location 24/7.
- Received additional funding from the State of Maryland through Community Electric Vehicle Supply Equipment Grant Program.

- ***Benefits:***

- Encouraging the use of electric cars amongst residents can improve air quality in the area



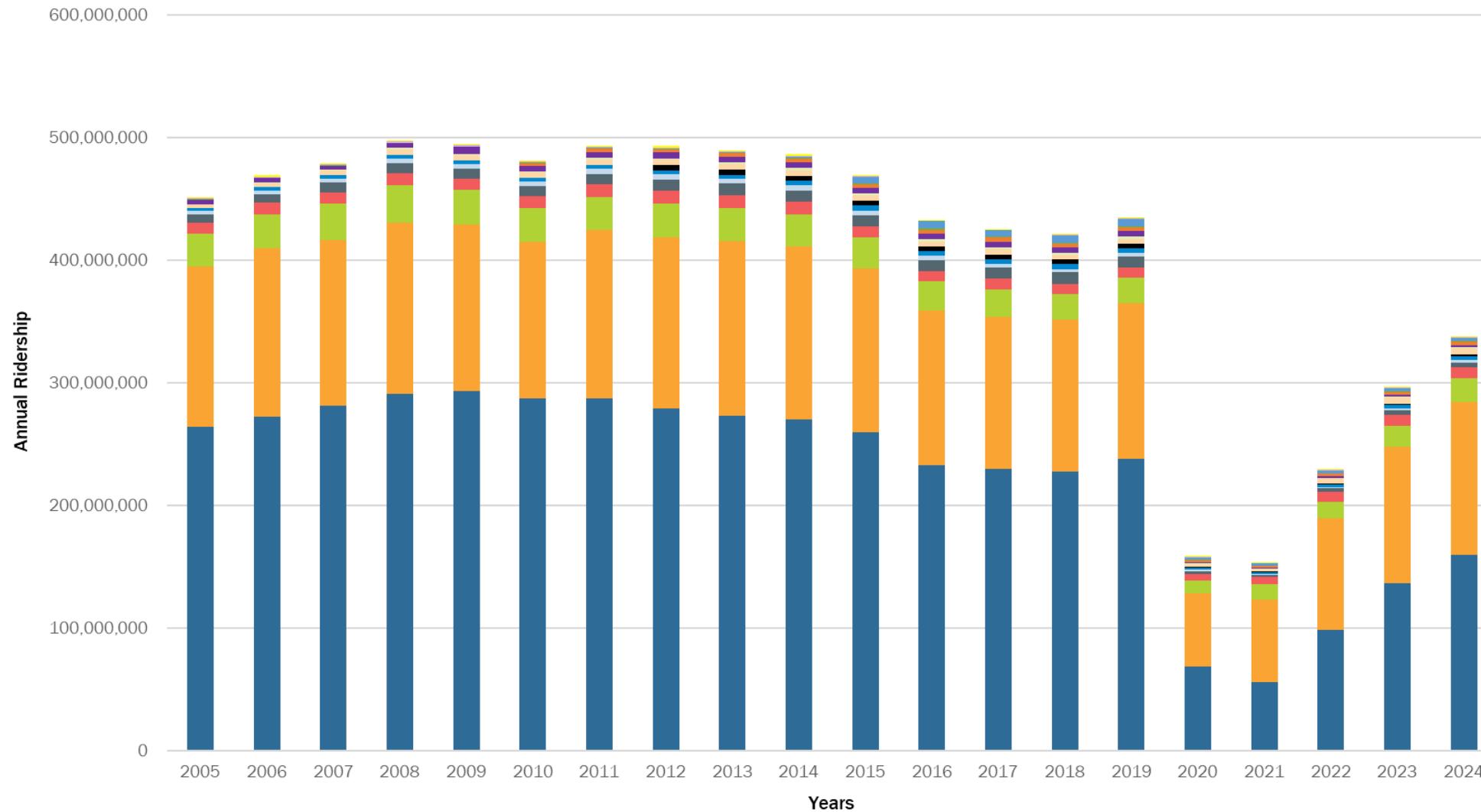
EV charging stations at Bladensburg Community Center (Source: [Town of Bladensburg](#))

MSTB – Vehicle Miles Travelled



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MSTB - Annual Transit Ridership by Agency



■ Metrorail
■ OmniRide
■ VanGo

■ Metrobus
■ MTA Commuter Bus
■ DC Circulator

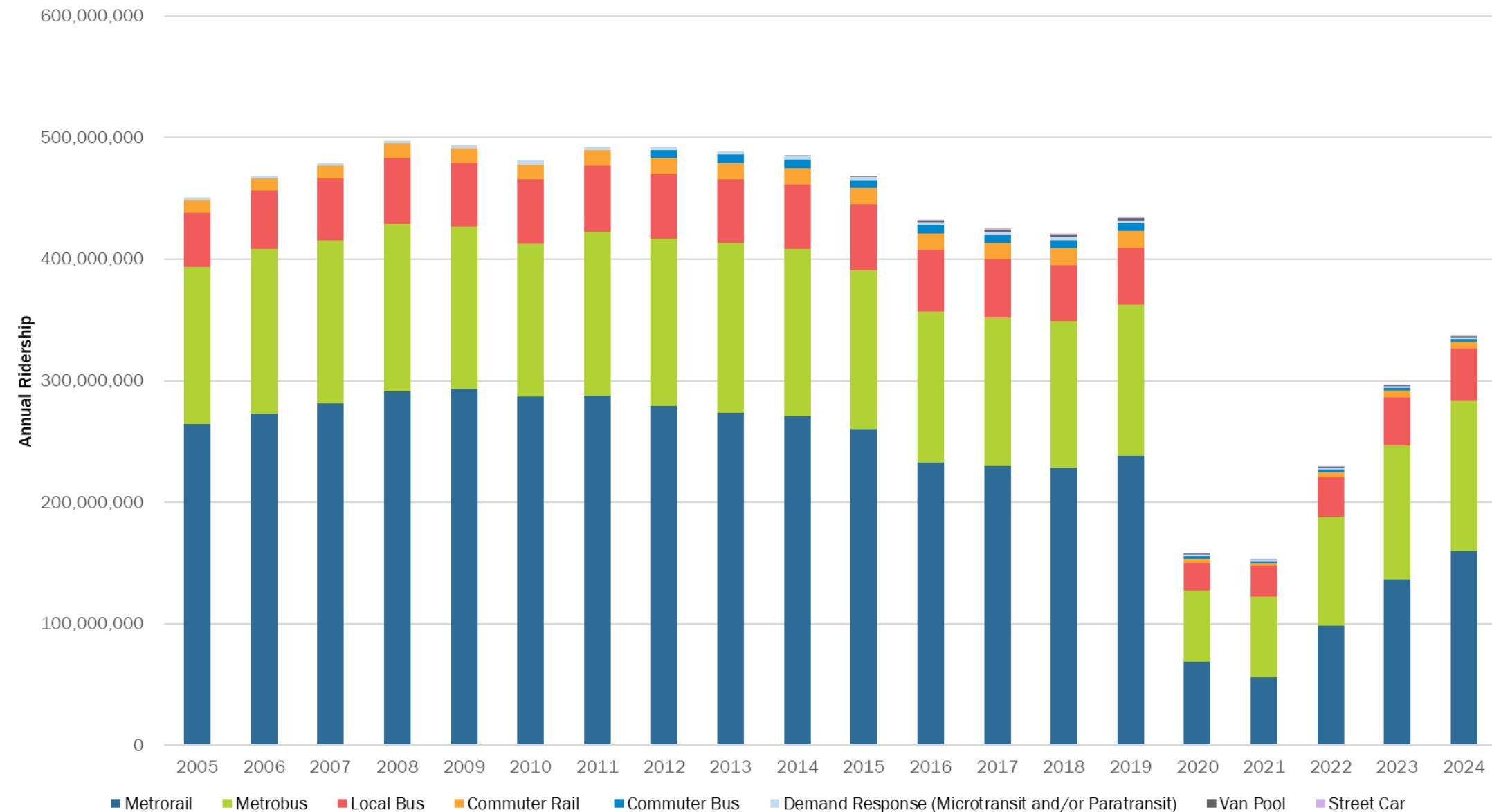
■ RideOn
■ DASH
■ Frederick Transit

■ Fairfax Connector
■ Loudoun County Transit
■ CUE

■ MARC
■ VRE

■ TheBus
■ ART

MSTB – Regional Annual Transit Ridership by Mode



MSTB Case Study #9: Falls Church

- ***Description:***

- [Falls Church](#) implemented the South Washington Street Multimodal Improvements Project to improve walkability and access to transit.
- The project included the construction of a transit plaza, new crosswalks, streetscape improvements, signal upgrades, stormwater infrastructure, and storytelling history panels.
- MWCOG Transportation Department assisted with the initial assessment of the site in 2008

- ***Outcomes:***

- Increased pedestrian safety and access to transit
- Improved stormwater retention

- ***Benefits:***

- Improved multimodal connections to the City's Downtown area, North Washington Street, and the East Falls Church Metrorail Station.



South Washington Street Intermodal Transit Plaza (Source: [RK&K](#))

MSTB Case Study #10: Montgomery County

- *Description:*
 - Montgomery County conducted a [Flex Expansion Study](#) to provide a performance assessment to inform future planning efforts to develop similar on-demand transit services collected from this bus program called Flex. The study engaged a variety of stakeholders to increase the equitability and efficiency of the routes for the community.
- *Outcomes:*
 - Flex established the on-demand bus service in 19 new Flex zones in the pilot areas of Glenmont, Rockville, and Wheaton to serve up to 485,000 people and 235,000 jobs.
- *Benefits:*
 - The study engaged a variety of stakeholders to increase the equitability and efficiency of the routes for the community. COG's Equity Emphasis Areas and Montgomery Planning's Equity Focus Areas were used to analyze and determine which zones would benefit the most from the Flex bus from an equity perspective.
 - The fare is \$1 which allows increased accessibility in transportation for people of all socioeconomic backgrounds and is on a needs-based system which decreases the unnecessary waste that can come from transportation.



[Virtual Bus Stops](#)

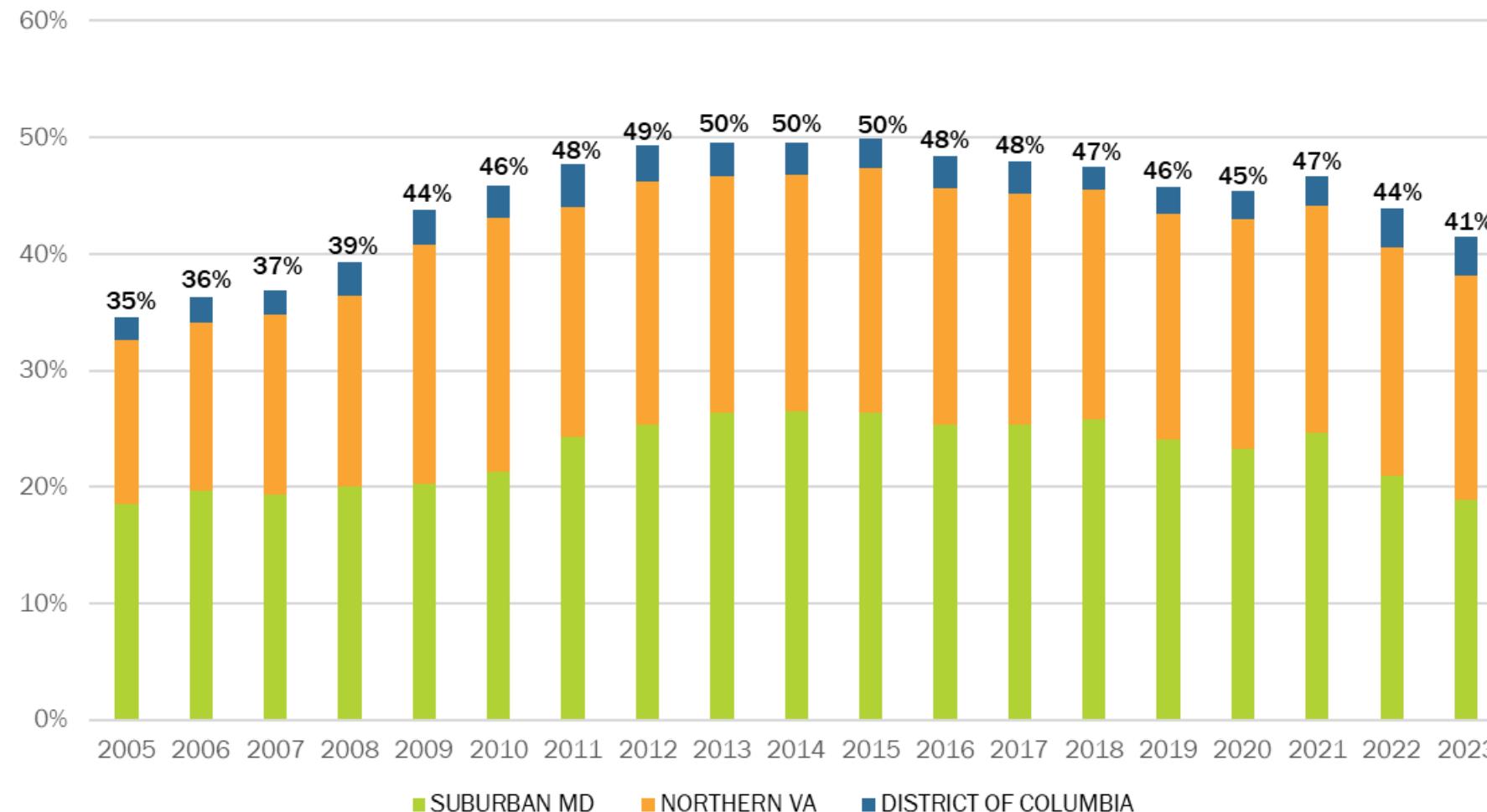
[On Demand Service](#)

[Environmentally Friendly](#)

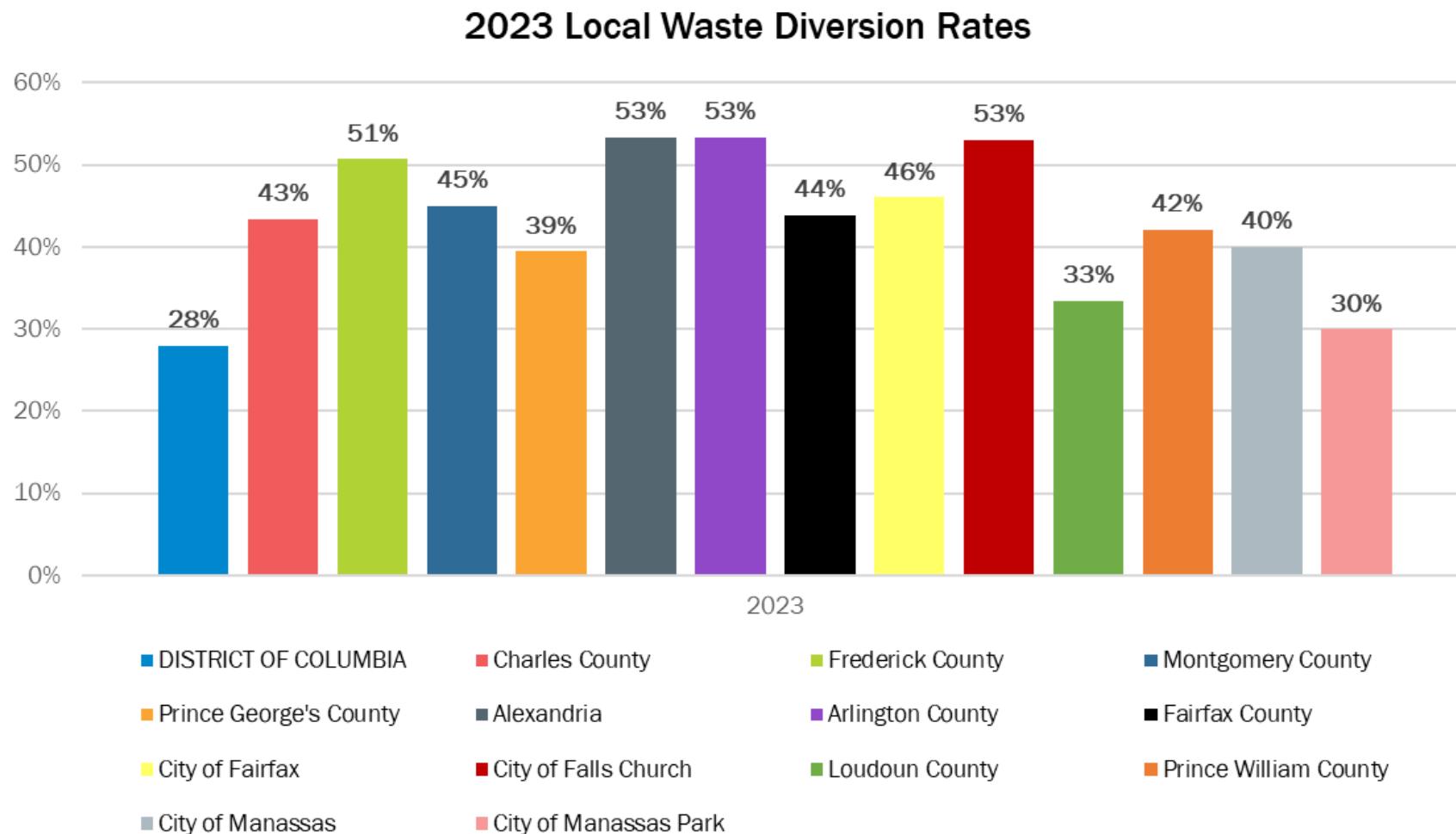
[WiFi](#)

Flex Transit Information
(Source: [MDOT](#))

ZW – Regional Waste Diversion Rate Trends



ZW - Local Recycling Rate Trends



ZW Case Study - Laurel

- **Description:**

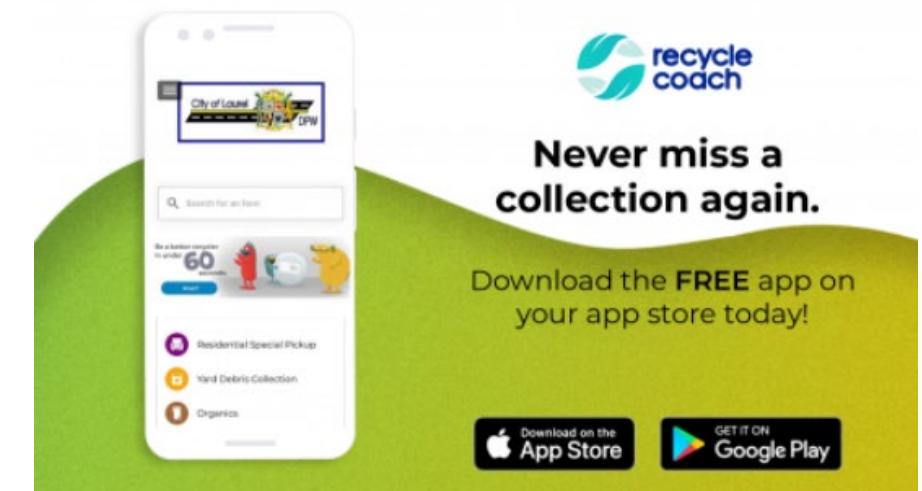
- Laurel has an address-based app, [Recycle Coach](#), that provides information about the city's trash and recycling program.

- **Outcomes:**

- Residents can access the schedule and events; learn about the accepted materials; set reminders to never miss the weekly collection day and receive instant updates; and can have the ability to export calendar events to their own calendar application.

- **Benefits:**

- The app lowers the barrier to entry when gaining knowledge and understanding about recycling (i.e. how to and what is allowed to be recycled). In addition, it keeps residents properly informed on any updates.



[Recycle Coach](#)

ZW Case Study - Compost Crew

- **Description:**

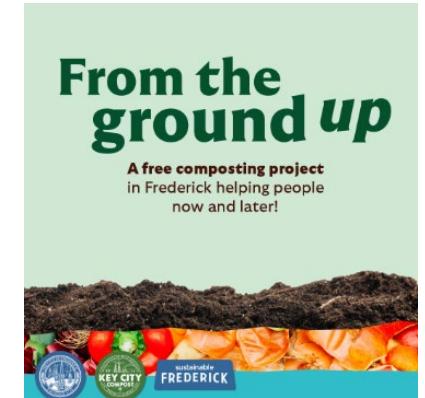
- The Cities of [Frederick](#), [Greenbelt](#), [Falls Church](#), and [Manassas](#) have all established contracts with [Compost Crew](#), a locally owned business based in Rockville, MD, to provide weekly curbside food scrap collection services for households in their communities.

- **Outcomes:**

- The Cities are providing an easily assessable option for their communities to compost the food scraps, reducing waste going to landfills and converting the food scraps into a rich soil amendment.

- **Benefits:**

- The Cities' contracts offer the neighborhoods lower or free rates for their curbside composting pickup which allows for an equitable and low effort way for members of various communities to compost and lower their waste.



Compost Crew

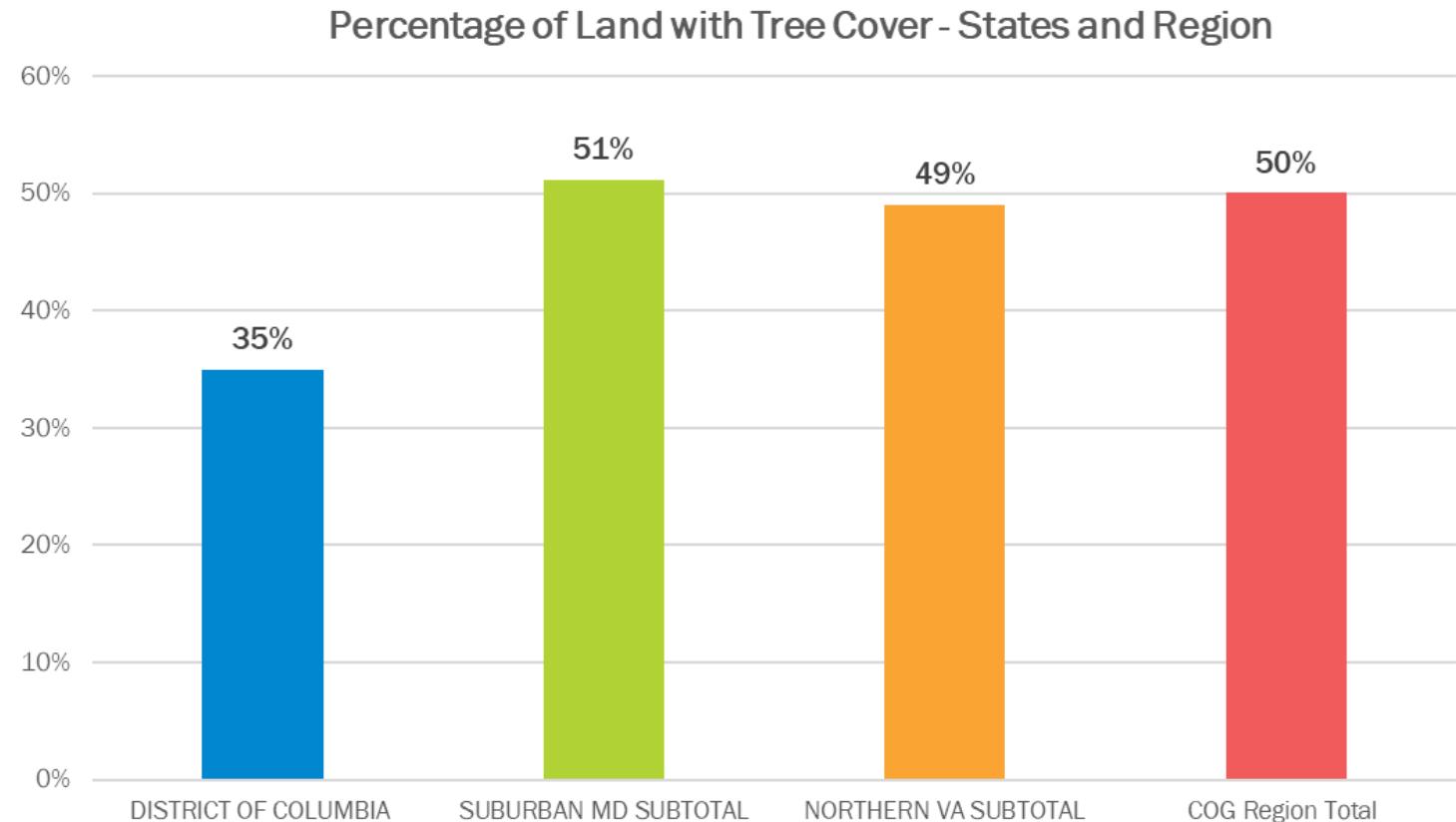


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SQ - 2021 State and Regional Tree Canopy Percent

In 2024, the COG Board adopted a regional tree canopy goal of 50%

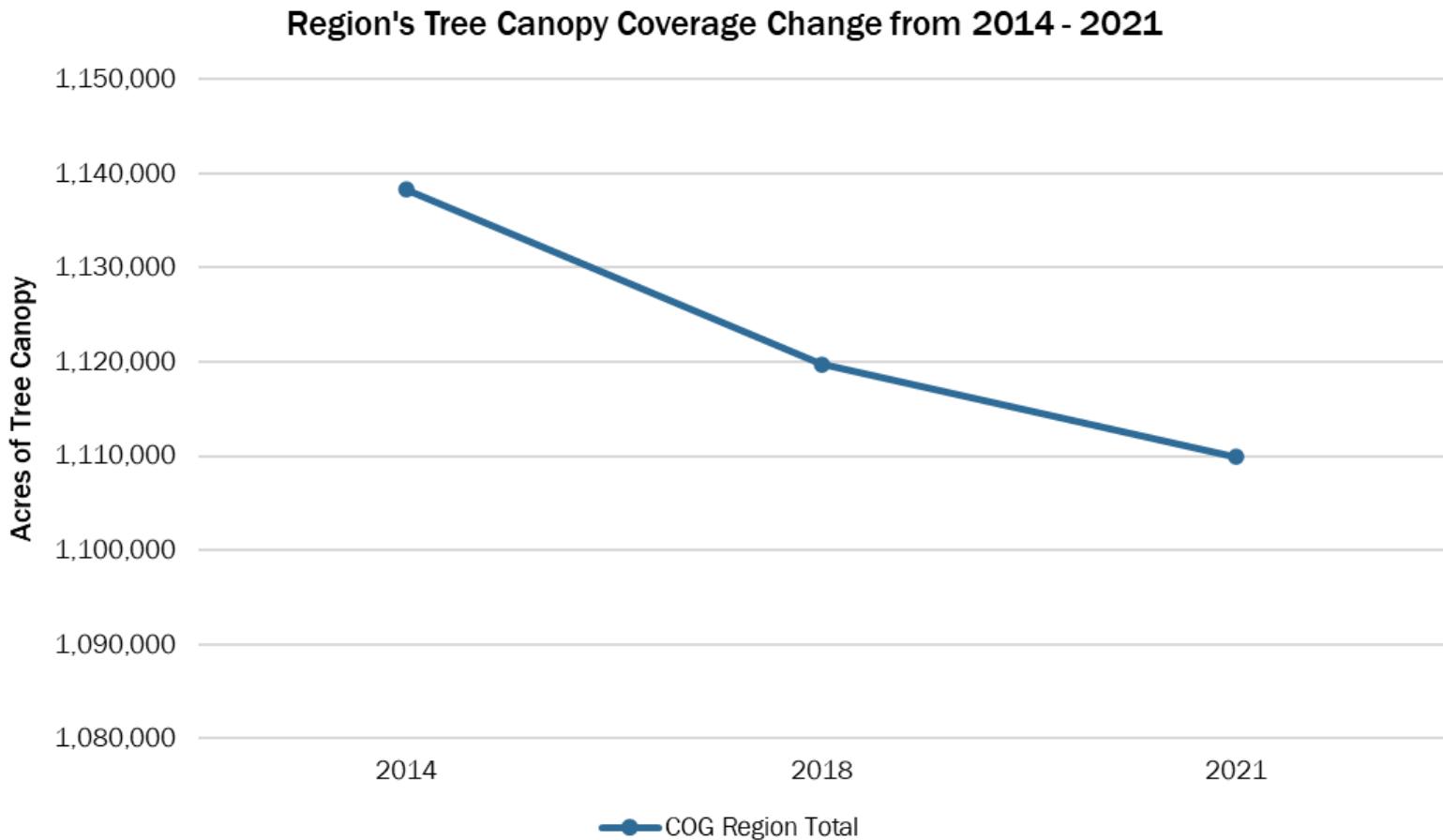
As of 2021, COG is maintaining approximately 50% regional tree canopy



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SQ - 2014-2021 Change in Tree Canopy Percent

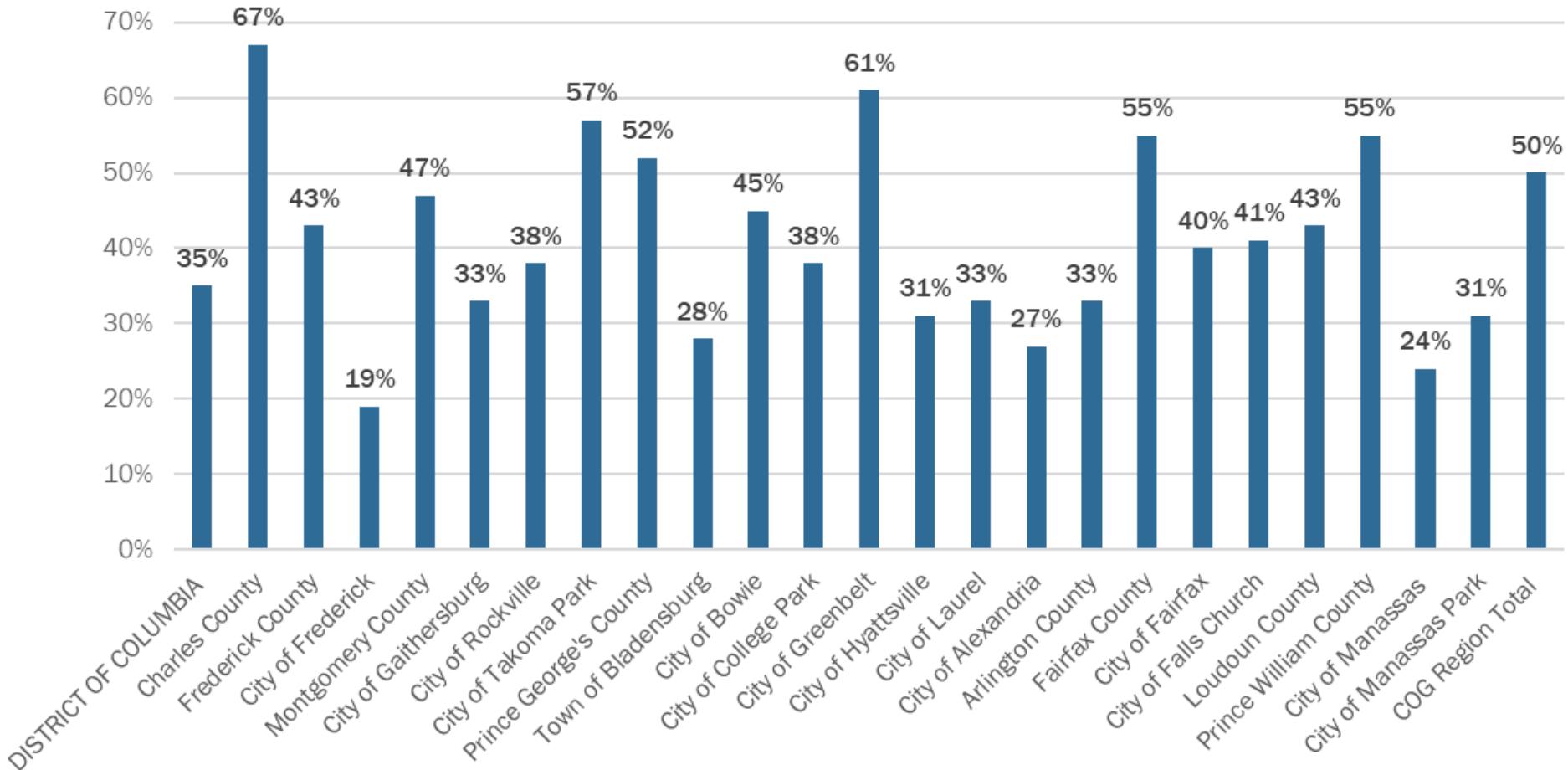
The COG region experienced a net loss of 28,377 acres of tree canopy between 2014 and 2021



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SQ - 2021 Local and Regional Tree Canopy Percent

Percentage of Land with Tree Cover



SQ –Regional Annual Tree Canopy Benefits

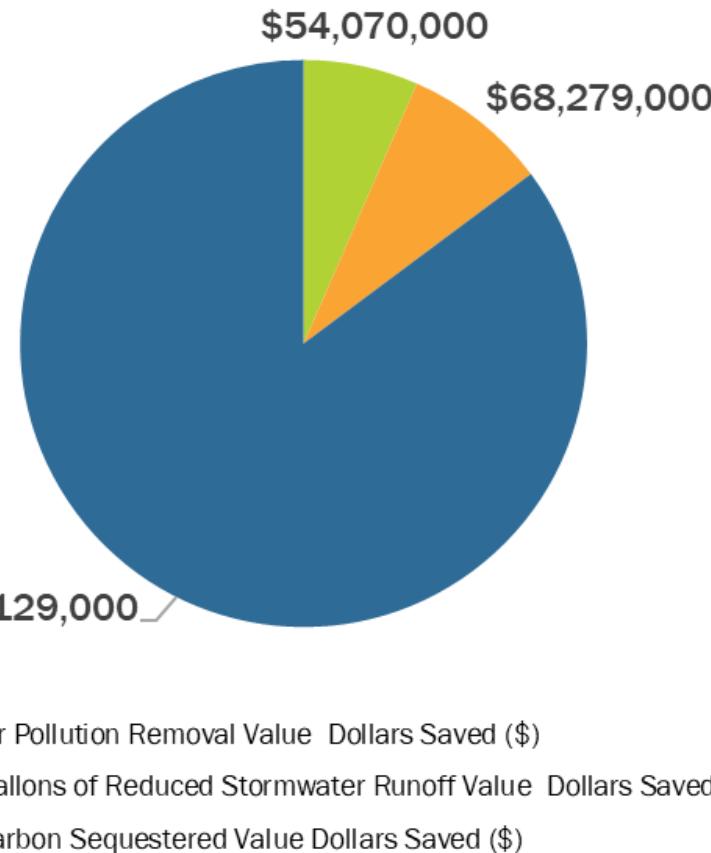
66.4 Million Pounds of Air Pollutants Removed

7.65 Trillion Gallons of Reduced Stormwater Runoff

1.48 Million Tons of Carbon Sequestered

\$826,475,000 Money Saved

Annual Tree Canopy Benefits - Dollars Saved - COG Region



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Direct Links To COG Member Tree Canopy Fact Sheets

[District of Columbia](#)

Maryland

[Charles County](#)

[Frederick County](#)

- [City of Frederick](#)

[Montgomery County](#)

- [City of Gaithersburg](#)
- [City of Rockville](#)
- [City of Takoma Park](#)

[Prince George's County](#)

- [Town of Bladensburg](#)
- [City of Bowie](#)
- [City of College Park](#)

- [City of Greenbelt](#)
- [City of Hyattsville](#)
- [City of Laurel](#)

Virginia

[City of Alexandria](#)

[Arlington County](#)

[Fairfax County](#)

[City of Fairfax](#)

[City of Falls Church](#)

[Loudoun County](#)

[Prince William County](#)

[City of Manassas](#)

[City of Manassas Park](#)



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SQ Case Study #13: Bowie

- *Description:*

- [Plant One Tree On Us](#) is a program for Bowie residents to pick out a tree from their list of acceptable native species, decide where they want to plant it on their property, and have it planted by the government's contractors.

- *Outcomes:*

- 442 trees have been planted as a result of this program.

- *Benefits:*

- Residents are able to contribute to the city's goal of 45% tree canopy coverage, while also learning about native trees to the area and how to properly maintain their new tree with the city's support.



A tree planted from the Green Bowie Program
(Source: City of Bowie)



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SQ Case Study #14: City of Fairfax

- *Description:*

- The [SPROUT Initiative](#) engages members of the community to plant, take care of, and learn about trees that make up their urban forest.

- *Outcomes:*

- In the first of the initiative, 365 trees were delivered to residents, and 320 trees were planted on public land. This culminated in 550 volunteer hours in non-native and invasive removal and tree planting with an additional 320 workforce development hours in the City Jobs Program which is all under the city's first Urban Forest Master Plan (still in development)

- *Benefits:*

- The initiative lowers the barrier to access information on the removal of invasive species and the planting/maintenance of native trees. It has also increased participation in the development of the Urban Forest Master Plan which is focusing on creating community-focused goals and priorities.



A tree planting event with Providence Elementary School students (Source: City of Fairfax)



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