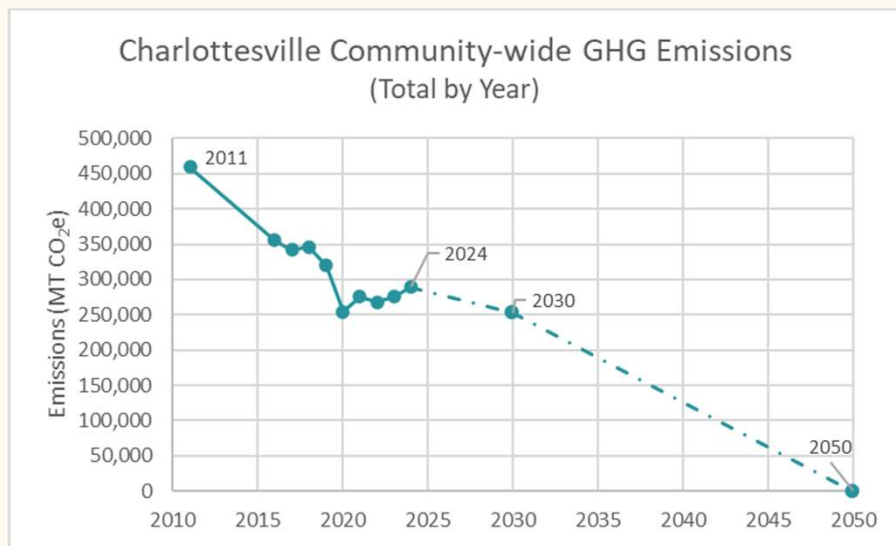




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Updated GHG Inventory – 2024 Emissions Data



4

Driving Factor: Transportation

Vehicle Type	Fuel Type	Unit	2019	2024	% Change
Motorcycles	Gasoline	Miles (VMT)	387,366.80	955,798.49	146.74%
Passenger Vehicles	Gasoline	Miles (VMT)	197,558,888.8	185,419,141.1	-6.14%
Light Trucks	Gasoline	Miles (VMT)	27,771,419.6	39,707,840.7	42.98%
Heavy Trucks	Gasoline	Miles (VMT)	398,758.8	482,671.9	21.04%
Total	Gasoline	Miles (VMT)	226,116,434.0	226,565,452.2	0.20%
Passenger Vehicles	Diesel	Miles (VMT)	861,448.6	808,513.7	-6.14%
Light Trucks	Diesel	Miles (VMT)	1,116,439.0	1,596,295.1	42.98%
Heavy Trucks	Diesel	Miles (VMT)	2,335,587.5	2,827,078.1	21.04%
Total	Diesel	Miles (VMT)	4,313,475.1	5,231,886.9	21.29%
Total			230,429,909.2	231,797,339.1	0.59%

Data from Virginia Department of Transportation

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Stationary Energy Use

Natural Gas Usage				
Sector	Unit	2023	2024	% Change
Residential	Cubic Feet	534,395,883	524,151,655	-1.92%
Commerical	Cubic Feet	338,624,921	339,139,007	0.15%
Municipal Government	Cubic Feet	30,769,739	25,709,544	-16.45%
Non-Municipal Government	Cubic Feet	74,774,732	77,798,732	4.04%
Industrial	Cubic Feet	3,005,386	2,138,598	-28.84%
Total Natural Gas	Cubic Feet	981,570,661.0	968,937,536.0	-1.29%

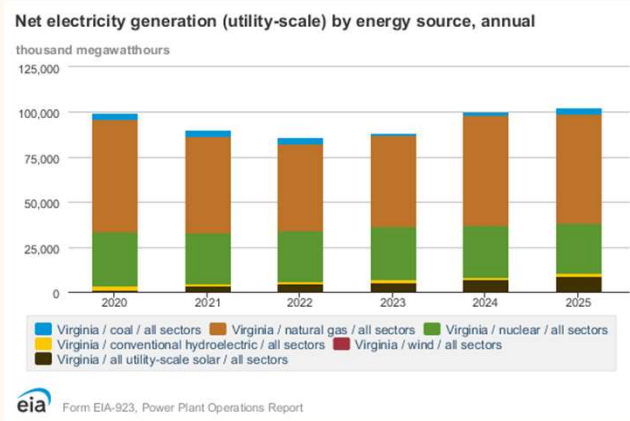
Electricity Usage				
Sector	Unit	2023	2024	% Change
Residential	kWh	184,701,589.00	190,046,878.00	2.89%
Commercial	kWh	181,896,607.00	186,810,472.00	2.70%
Municipal Government	kWh	20,366,616.00	20,983,883.02	3.03%
Non-Municipal Governmental	kWh	20,828,267.13	30,648,574.86	47.15%
Industrial	kWh	21,757.00	1,479,221.00	6698.83%
Total Electricity	kWh	407,814,836.1	429,969,028.9	5.43%

Data from Dominion Energy & Charlottesville Gas

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Driving Factor: Electricity

- Last year, we reported on the benefits of “grid-greening” on our local emissions
- Between 2023 and 2024, there was a reversal of that downward trend
- Reversal caused by higher-than-projected demand growth for electricity
- 8% emissions intensity increase in our region between 2023 and 2024
- New demand is largely being covered by natural gas



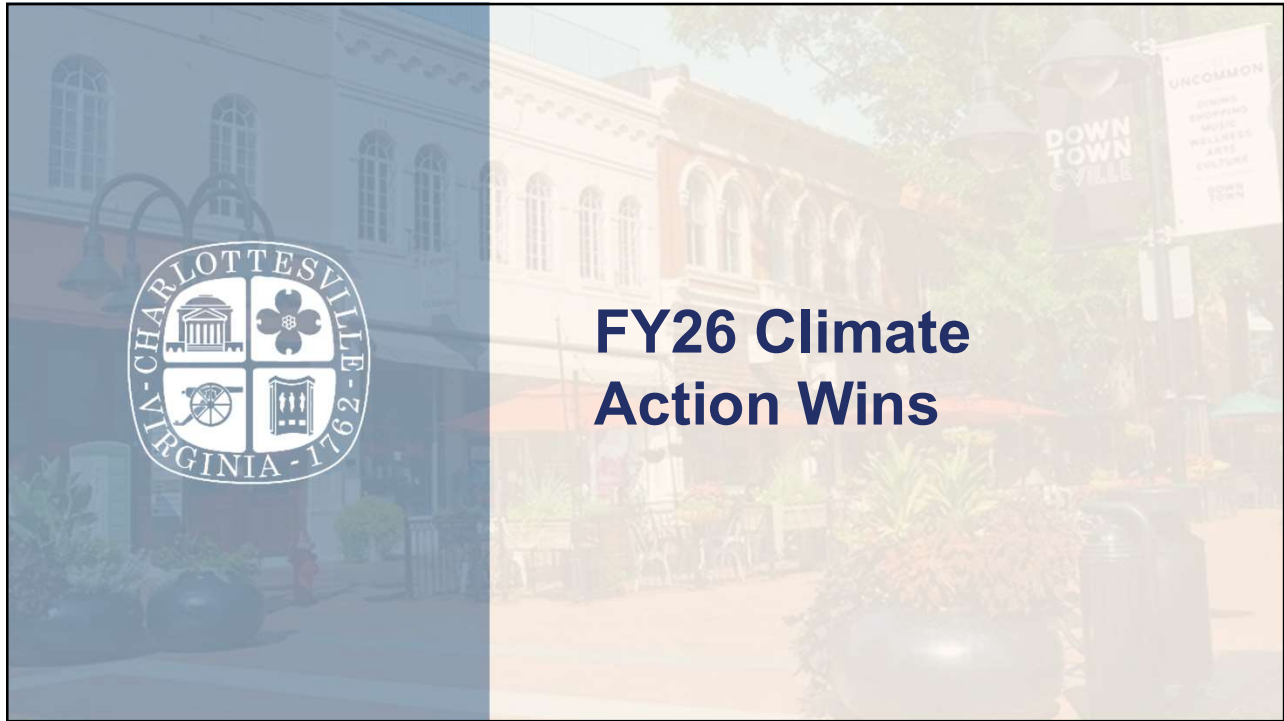
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Inventory Takeaways

- Community emissions are up 4.8% from 2023 Inventory
- Municipal emissions are up 9% from the 2023 Inventory
- This is being driven by increases in emissions from transportation and electricity generation
- Transportation:
 - Vehicle Miles Traveled are back up to pre-pandemic levels
 - Proportion of larger and less-efficient vehicle types is increasing
- Emissions from electricity are increasing as fossil fuel generation sources are added/expanded to meet rising demand



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FY26 Climate Action Wins

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CATEC Solar Array

- Charlottesville's largest solar array to date
- 262.9 kW system
- Has produced over 200 MWh since August 2025; on track to meet projections
- Will meet over 60% of CATEC's power needs
- As electricity costs are rising, so are the avoided costs of higher energy bills
- Completed as a design-build project under our master energy performance contract
- Installed by a local solar installer



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Two Large Solar PPAs

- PPA = Power Purchase Agreement
- Agreements signed in Spring 2026 for two large solar systems at Charlottesville High School and Charlottesville Middle School
- Combined size – 2.2 MW
 - 60% of CHS's power needs
 - 80% of CMS's power needs
- Projected to achieve nearly \$4 million of avoided electricity costs over the 25-year agreements
- Installation will be complete in 2027



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High-Performance Building Standards

- Replaced 2008 Green Building Policy with a High Performance Building Resolution
- Applies to all municipally owned facilities, including schools
- Provides guidance for new construction, major renovations, and operations & maintenance
- Codifies best-practices already recognized by City staff
- Aligns with Commonwealth of Virginia requirements
- Interdepartmental collaboration



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Fleet Electrification

- Community Wide EV Transition Study included an analysis of the City's Light-Duty Fleet
- Study identified 155 Fleet Vehicles that have comparable fully electric or plug-in hybrid alternatives
- OS is working with Public Works to develop a 5-year replacement & charging plan
 - 6 new EVs purchased in FY26
 - 45 vehicles identified for EV-replacement between now and FY31
- City will see significant savings on fuel and maintenance costs as the number of EVs in the fleet increases



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Electric School Buses

- Charlottesville welcomed the first two electric school buses in FY26
- Supported by EPA Clean School Bus funding (2023 round)
- Serving students since January 2026
 - Rave reviews so far by students and drivers!
- Charging infrastructure provided by Dominion through their ESB Charging Program
- OS pursuing eligible federal tax credits (\$40k/bus)
- OS continuing to explore scenarios with CAT for integrating more ESBs into the fleet.



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E-Bike Voucher Program

- In 2025, the program distributed 112 vouchers worth \$1000 each, of which 90 were redeemed
- For 2026, integrated income-qualifying element into the existing program
- Three tiers:
 - 1 - \$500 – Open to all
 - 2 - \$1000 – 80% AMI or less
 - 3 - \$1500 – Qualified benefits program
- First two rounds of 2026 program were successful
- Quarterly Opportunity: Sign-up for Q3 opens July 1, 2026



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Energy Resource Hub & Community EE Programs

- The Energy Resource Hub connects community members to energy programs, including those offered by Dominion, Charlottesville Utilities, and the Climate Program
- In 2025, the ERH served 178 C'ville households
 - 167 Home Energy Audits
 - 76 Energy Efficiency Upgrades
 - 55 Residential Retrofit Mini-Grants
 - 18 Solar installations through Solarize
- All these programs help community members reduce their energy use and buffer them from rising utility costs



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Community Engagement

- OS strives to be highly visible in the community
- Participated in over 100 hours of community-facing events in FY26
- Highlights included:
 - EcoFair
 - Climate Café Series
 - Rivanna Riverfest
 - Climate Kits & other engagement with CCS
 - Resilient Together Community Workshops
 - 31 local media stories



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Policy & Regulatory Work

- Charlottesville engages in state-level advocacy on policies that impact local climate work
- In FY26, we engaged on two important issues:
 - September 2025 – participated in a 2nd Amicus Brief in support of Virginia's participation in the Regional Greenhouse Gas Initiative (RGGI) with several other localities
 - January 2026 – submitted written comment to the State Corporation Commission opposing changes to Dominion's Net-Metering Policy
- Favorable outcomes on both issues have followed



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Climate Adaptation & Resilience Plan Update

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Resilient Together

Project Vision: A community that is strong, safe, and healthy in the face of the changing climate now and in the future.

- Ongoing Adaptation & Resilience planning project in partnership with Albemarle County & UVA
- Discover, Define, & Design Phases complete
- Plan Draft is in review (Decide Phase)
- Public comment period planned for late Summer/early Fall
- Aiming for a late Fall work session prior to bringing it forward for adoption



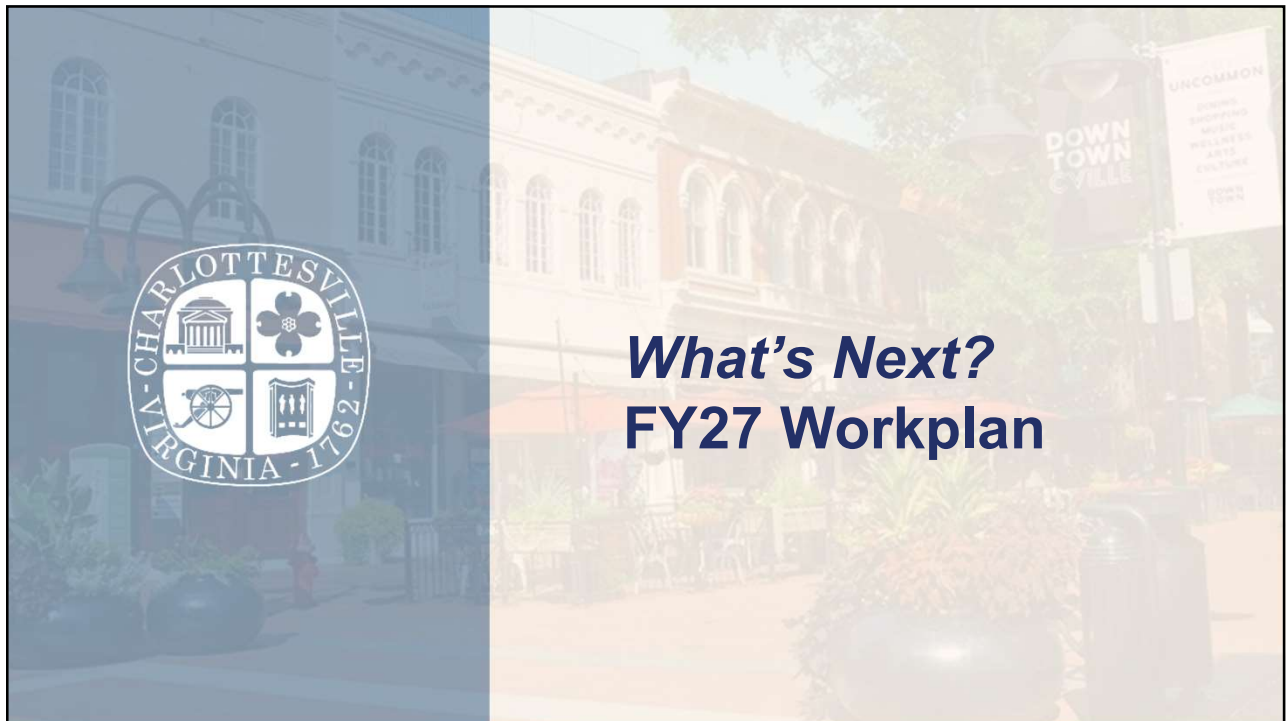
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Climate Adaptation & Resilience Plan Preview

- “Sister Plan” to Climate Action Plan
- A requirement of our commitment to the Global Covenant of Mayors for Climate & Energy
- 16 Resilience Strategies
- Each strategy has one or more implementation projects or steps associated with it
- We are already doing resilience-building work



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FY27 Workplan Highlights

- Presentation of the Climate Adaptation & Resilience Plan for adoption
- Energy efficiency upgrade projects at CATEC and four Elementary Schools
- Installation of 2 large solar projects through PPAs
- Continued support for the Energy Resource Hub and locally-funded home retrofit programs
- New locally-funded Small Business & Non-profit Energy Efficiency Program
- Arrival & Deployment of the first electric Transit buses
- Expansion of neighborhood compost drop-off locations



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Thank You!

Questions?



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