



Climate Action Progress Update

Update

John Morrill, Acting Director, Office of Environmental and Energy Coordination

February 27, 2024

Coordination of Climate Plans



150+ staff from
25+ agencies are involved
in climate plan implementation.

OEEC coordinates
across all agencies, and with
community groups, businesses,
fellow jurisdictions, utilities, state
and federal government, and the
general public.

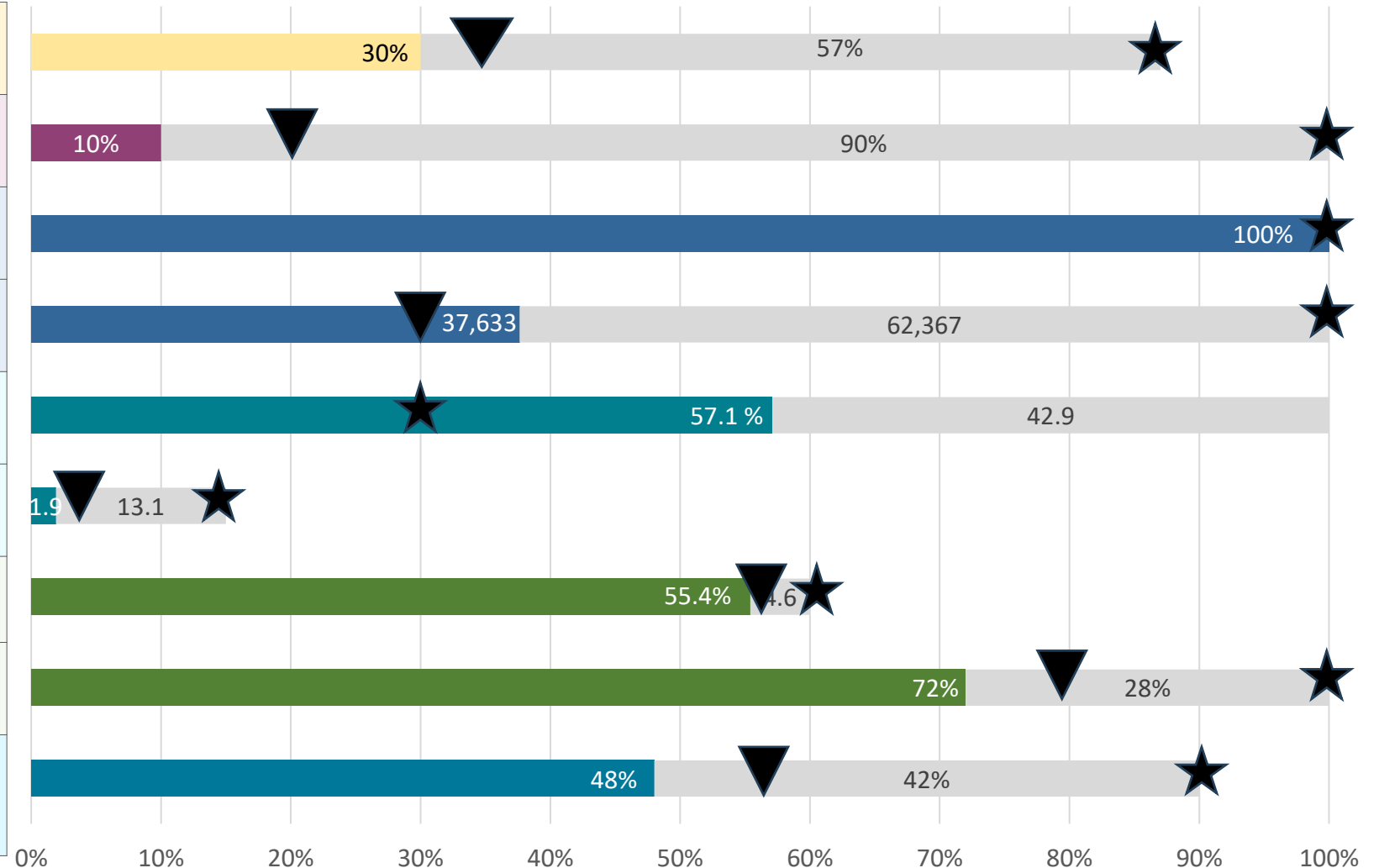
Addressing the Cause and Effects, with Coordinated Implementation





Outcomes: CECAP (Emissions Reduction in the Community)

Carbon Neutrality	Carbon neutrality for the population by 2050 (87% reduction)
Energy Supply	Virginia Clean Economy Act (100% clean by 2045)
Energy Efficiency	All new, eligible buildings have a commitment to green building
Energy Efficiency	Retrofit at least 100,000 housing units with energy efficiency by 2030
Transport	Increase transit, non-motorized, and telework* commuting to 30% by 2030
Transport	Electric vehicle registrations (PHEVs and BEVs) to 15% by 2030
Natural Resources	60% tree canopy overall in the County
Natural Resources	100% of Census Tracts have >=40% canopy by 2030
Waste	Zero waste by 2040 (90% waste diverted from the landfill/incineration)



*Due to teleworking during the pandemic, this goal was surpassed, but will likely regress as workers return to the office

Bars = Where we are ▼ = Where we should be ★ = Final Goal

Groups	What We're Doing: <i>Strategy "Roll-Ups"</i>	RF	CECAP	OES	Roll-up Status	Roll-up Status Bar
Group 1 Coordination, Funding, Legislation	Interagency & Regional Collaboration, Staff Capacity Building, Strategic Plan	✓	✓	✓	Steady Progress	<div style="width: 70%;"><div style="width: 100%;"></div></div>
	Federal, State, and Other Funding Opportunities	✓	✓	✓	Started	<div style="width: 30%;"><div style="width: 100%;"></div></div>
	Adaptation Action Area Implementation	✓			Started	<div style="width: 15%;"><div style="width: 100%;"></div></div>
	Legislative Proposals and Advocacy	✓	✓		Started	<div style="width: 15%;"><div style="width: 100%;"></div></div>
Group 2 Development Codes, Plans, Policies	Flood Risk Reduction	✓			Started	<div style="width: 30%;"><div style="width: 100%;"></div></div>
	Comprehensive Plan	✓	✓		Started	<div style="width: 20%;"><div style="width: 100%;"></div></div>
	Urban Design Guidance	✓			Started	<div style="width: 10%;"><div style="width: 100%;"></div></div>
	County Codes & Zoning Ordinance	✓	✓		Steady Progress	<div style="width: 45%;"><div style="width: 100%;"></div></div>
Group 3 Community Aid, Education, Engagement, Incentives	Incentives for Communities	✓	✓		Steady Progress	<div style="width: 60%;"><div style="width: 100%;"></div></div>
	Aid and Risk Reduction for Communities	✓			Steady Progress	<div style="width: 55%;"><div style="width: 100%;"></div></div>
	Education, Workforce Development	✓	✓		Started	<div style="width: 40%;"><div style="width: 100%;"></div></div>
	Community-Led Pilot Programs, Partners, Champions		✓		Started	<div style="width: 35%;"><div style="width: 100%;"></div></div>
Group 4 Natural Resources	Consolidated Natural Resources Management Plan Process	✓	✓		Early Stage	<div style="width: 5%;"><div style="width: 100%;"></div></div>
	Tree Programs	✓	✓		Started	<div style="width: 20%;"><div style="width: 100%;"></div></div>
	Surveying & Protection of Natural Areas	✓	✓		Started	<div style="width: 10%;"><div style="width: 100%;"></div></div>
	Nature-Based Restorations and Green Infrastructure	✓	✓		Started	<div style="width: 15%;"><div style="width: 100%;"></div></div>
Group 5: Facilities & Operations	County Facilities: Energy, Water, Green Buildings, Utilities		✓	✓	Started	<div style="width: 30%;"><div style="width: 100%;"></div></div>
	Resilience for County Facilities and External Infrastructure	✓			Early Stage	<div style="width: 5%;"><div style="width: 100%;"></div></div>
	Fleet and Transit		✓	✓	Started	<div style="width: 30%;"><div style="width: 100%;"></div></div>
	Zero Waste and Sustainable Purchasing and Procurement		✓	✓	Started	<div style="width: 20%;"><div style="width: 100%;"></div></div>
Group 6 Data and Research	Data and Map Updates	✓	✓	✓	Steady Progress	<div style="width: 75%;"><div style="width: 100%;"></div></div>
	Climate-Related Research	✓			Started	<div style="width: 10%;"><div style="width: 100%;"></div></div>

Group 1 Highlights: Coordination, Funding, Legislation

Coordination,
Funding,
Legislation

Development
Codes, Plans,
Policies

Community
Services,
Education,
Engagement,
Incentives

Natural
Resources

County
Facilities and
Operations

Data and
Research

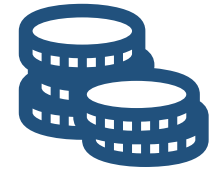
Interagency and Regional Coordination and Capacity Building

- 150+ staff from 25+ county agencies are involved
- Customized trainings provided for agencies
- Aligning climate plans with Strategic Plan, Hazard Mitigation Plan, Health plans
- Coordinating with neighboring jurisdictions, authorities, other levels of gov



Funding Opportunities

- Most strategies are implemented through existing programs and staff
- Fund 30015 – Environmental and Energy Programs
- EIP, Plastic Bag Tax, EECBG (DOE grant pending)
- Federal grant applications – support needed
 - EPA EJ G2G for Resilience Hubs – *(Not awarded in 2023; annual program)*
 - Charging and Fueling Infrastructure Grant – *(Not awarded 2023; annual)*
 - Climate Pollution Reduction Grant – *(Pursuing through MWCOG)*
 - Climate Justice Community Change Grants – *(Pursuing)*



State-level Proposals Actions:

- Legislative monitoring and analysis
- Building Code upgrades sought for energy efficiency and resilience



Group 3 Highlights: for Residents

Coordination,
Funding,
Legislation

Development
Codes, Plans,
Policies

Community
Services, Aid,
Engagement,
Incentives

Natural
Resources

County
Facilities and
Operations

Data and
Research

Public Information and Outreach

- ✓ Updated website with:
 - Link to EPA Carbon Footprint Calculator
 - Climate Action Dashboard
- ✓ Climate Action Checklists
- ✓ Fact sheets and resources in multiple languages
- ✓ Videos with testimonials from Fairfax County residents
- ✓ Informational campaigns for:
 - Solarize VA & Capital Area Solar Switch
 - Green Business Partners
 - Charge Up Fairfax
 - Energy Conservation Assistance Program

Fairfax County residents
are powering their homes
with solar! **Meet them.**



Transportation Checklist

10 actions you can take on the road to
save money and
lower your carbon footprint

Action	Cost Up Front	Yearly Savings	CO2e Reduction (lbs per year)
1 Estimate your current carbon footprint using an online calculator. Write down your current yearly emissions.	Free	Does Not Apply	Does Not Apply
2 Walk or bike for at least half of your short trips to nearby destinations (3 miles or less). Please only complete this item if it is safe to do so in your area.	Free	\$\$ \$610	↓↓↓ 3,000
3 Join a carpool and gain access to free Express HOV lanes, while also saving gas money and reducing emissions.	Free	\$\$\$ \$1,300	↓↓↓ 6,100
4 Telework (work from home) at least 2 days per week if your job allows it. Reducing your commuting saves significant emissions, money, and time.	Free	\$\$ \$640	↓↓↓ 3,100
5 Use fuel efficient driving practices: Reduce your top highway speed to 65 mph and coast to gentle stops rather than rapidly accelerating and braking.	Free	\$ \$185	↓↓↓ 1,100

Group 3 Highlights: for Residents Cont.

Coordination,
Funding,
Legislation

Development
Codes, Plans,
Policies

Community
Services, Aid,
Engagement,
Incentives

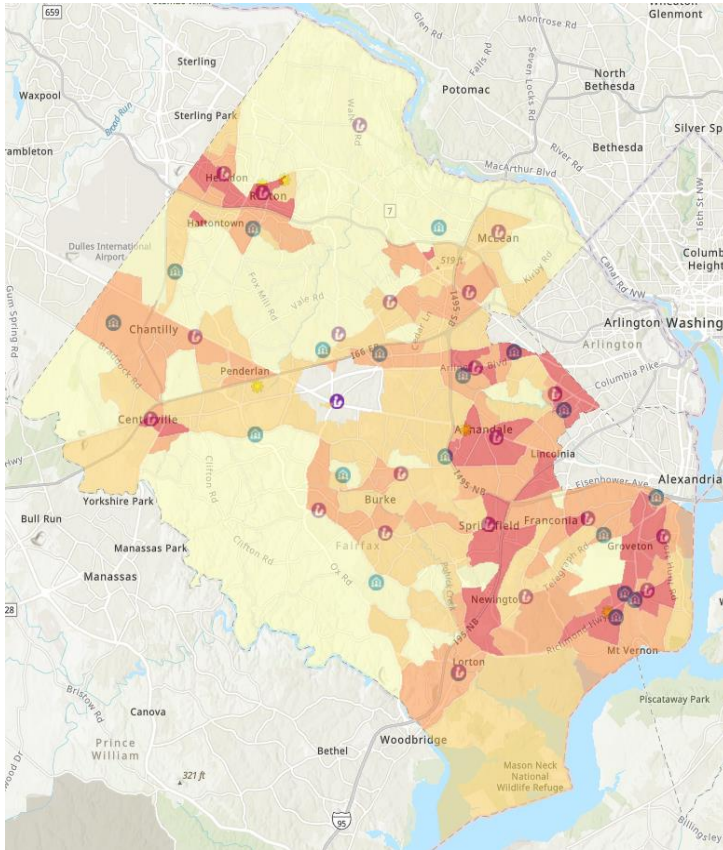
Natural
Resources

County
Facilities and
Operations

Data and
Research

Extreme Heat Services

Cooling Centers, Cooling Assistance, UHI Mapping, Cool Roofs & Pavements, Heat Alerts



1,452

Air conditioning
service requests met
for homes in 2023

27,000

Supplies distributed
from Cooling Centers

47

Upgraded official
Cooling Centers

- Temperature data, heat island mapping
- Heat vulnerability & needs assessments
- Cooling Assistance for those who can't afford AC
- Guidance for outdoor workers, outdoor sports being developed
- Guidance on cool roofs, cool pavements, design strategies



Group 3 Highlights: for Businesses and Associations

Coordination,
Funding,
Legislation

Development
Codes, Plans,
Policies

Community
Services, Aid,
Engagement,
Incentives

Natural
Resources

County
Facilities and
Operations

Data and
Research

Charge Up Fairfax

Program helps community associations access electric vehicle charging for residents and their guests. 10 communities engaged in pilot; new application round to come in May 2024.



Green Business Partners

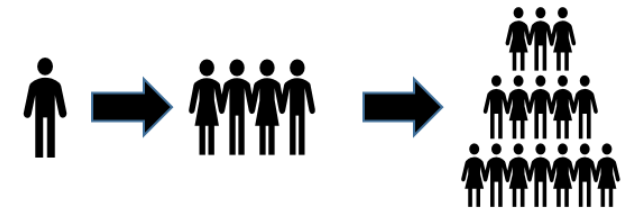
Growing network of private sector Leaders, Members, and Allies learning about sustainability and sharing experiences in climate action. Participants range from sole proprietorships to Fortune 100 companies.



Non-Profits and Faith Communities

Expanding relationship with Faith Alliance for Climate Solutions on climate action in houses of worship; multiple joint webinars; supported federal grant application won by FACS.

Expanded ***Energy Conservation Assistance Program*** provides rebates for clean energy upgrades at non-profit organizations.



Group 5 Highlights: For County Government

Coordination,
Funding,
Legislation

Development
Codes, Plans,
Policies

Community
Services, Aid,
Engagement,
Incentives

Natural
Resources

**County
Facilities and
Operations**

Data and
Research

- ✓ **44** county buildings are **LEED certified**
 - **Woodlawn Fire Station** – Platinum in 2023
 - **18** certified LEED Gold county buildings
- ✓ **13 energy retrofits completed** since 2021 OES adoption
 - **3** completed in 2023, **4+** to be completed in 2024
- ✓ **5 county buildings with rooftop solar**
 - **20+** additional planned by end of 2025
- ✓ **306 EVs and hybrid vehicles** in the fleet
 - **83** Electric & **223** Hybrid Vehicles, increasing yearly
 - Includes **two new** electric trash trucks in 2023
- ✓ **110 EV charging ports on county government property**
 - More coming at new and existing facilities in 2024, including this Government Center



Priorities for CY 2024

Emissions reduction is a global effort. Enhancing resilience is a very local activity.

- **For emissions reduction:** Identify and quantify gaps in our road to carbon neutrality
 - Federal and state role
 - Market drivers and trends (e.g. electric vehicle manufacturing)
 - Greater visibility and participation by the private sector in Fairfax
- **For resilience:** build on existing policy, public services, capital improvements, and community outreach
 - Flood risk reduction, heat risk reduction, storm resilience
- **For both:**
 - Grow community-facing programs at broader scale
 - Enhance visibility of activity, data, and results
- **FY2025 Funding**