



Fairfax County's Approach to Carbon Neutrality: County Operations and Facilities

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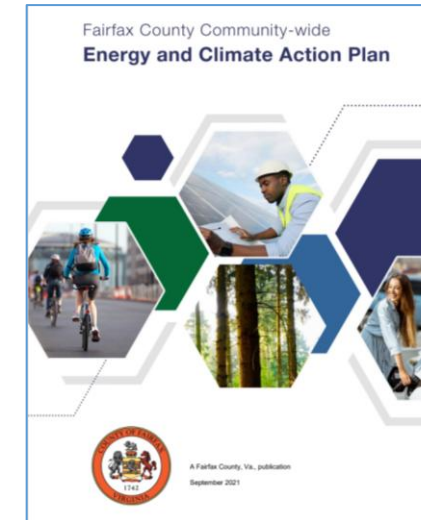
September 25, 2025

Presentation to Fairfax County Federation of Citizen Associations

Fairfax County Climate Goals

Community-wide (CECAP)

- Carbon neutrality by 2050
- 75% reduction in carbon emissions by 2040
- 50% reduction in carbon emissions by 2030



County Operations (OES)*

- Carbon neutrality (from energy) by 2040
- 50% reduction in carbon emissions by 2030



Resilient Fairfax

- Integrated Action Planning
- Climate Ready Communities
- Resilient Infrastructure and Buildings
- Adaptive Environments

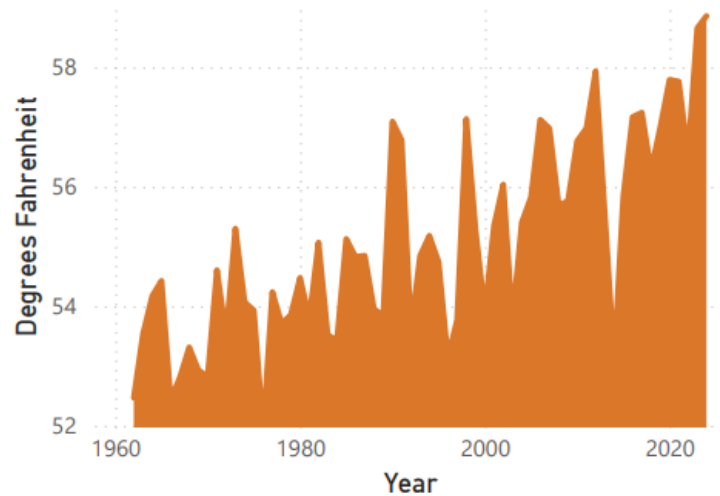


* Fairfax County operations account for 2.5% of total emissions, 5% with FCPS

Climate Trends in Fairfax County

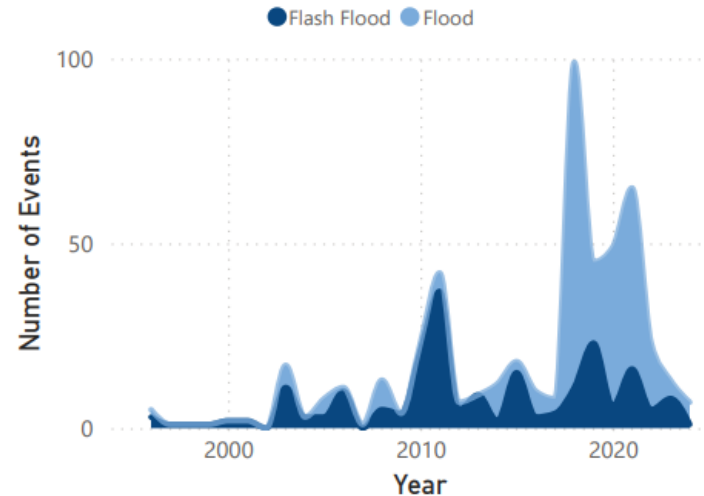
Warmer

Average Temperatures by Year
Fairfax County, VA, 1962-2024



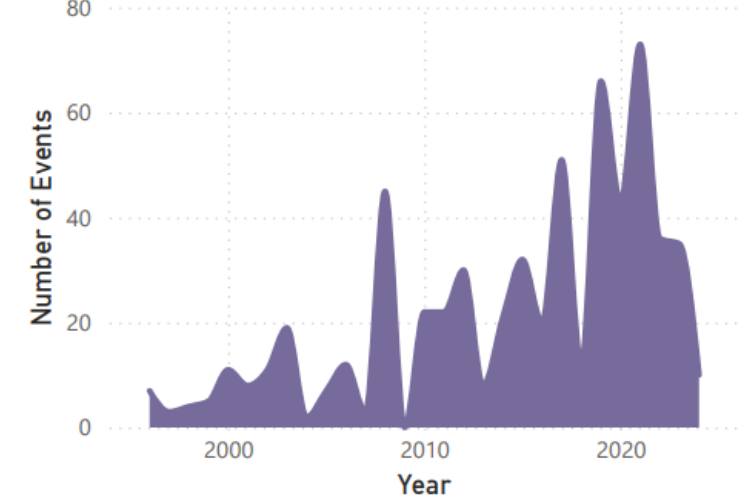
Wetter

Number of Flash Flood Events per Year
Fairfax County, VA, 1996-2024



Weirder

Number of Thunderstorm Wind Events per Year
Fairfax County, VA, 1996-2024



Most agencies
relate to the
environment.

The Office of
Environmental and
Energy
Coordination
“connects the
dots.”





Legislation

Fairfax County Legislative Program

- Ensures the county has the authority and funding needed to implement local policies and priorities
- Public process began September

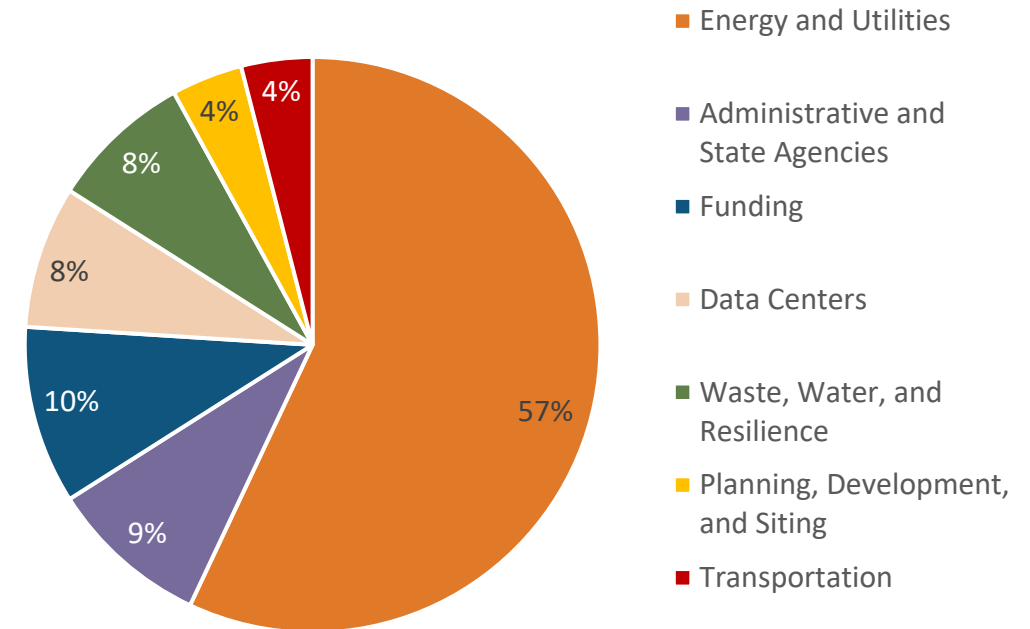
Legislation last General Assembly Session:

- **3,107 bills and resolutions** introduced
 - ~ **150 bills** were environmental
 - ~ **50** environmental bills passed the GA, although many were vetoed by the Governor

FYI on Passed Legislation:

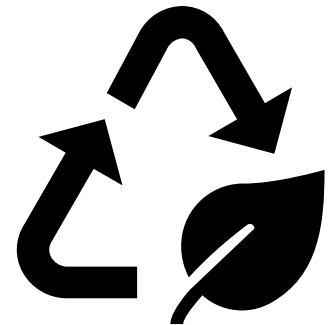
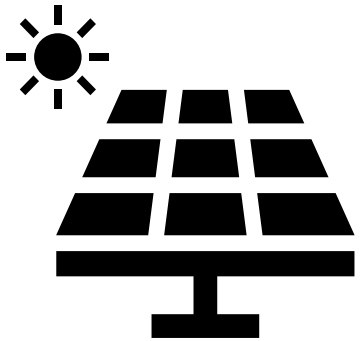
- **Passed, enacted:** [HB2266/SB1058](#): Electric utilities; distribution cost sharing program established, etc.
- **Passed, enacted:** [HB1819](#): C-PACE; changes to financing program, definitions
- **Passed: enacted:** [HB2630](#): Trees; replacement during development process in localities, tree canopy fund
- **Passed, enacted:** [HJ434](#): JLARC study; Non-federal sponsor contributions by localities to conduct CSRM studies
- **Passed: enacted:** [HJ437](#): Reestablishes Joint Subcommittee on Recurrent Flooding
- **Passed: enacted:** [HB2034](#): Policy task force: restoration of tidal and nontidal wetlands

Environmental Bills by Topic



Facilities and Operations

Progress on Facilities' Energy Efficiency and Renewable Energy



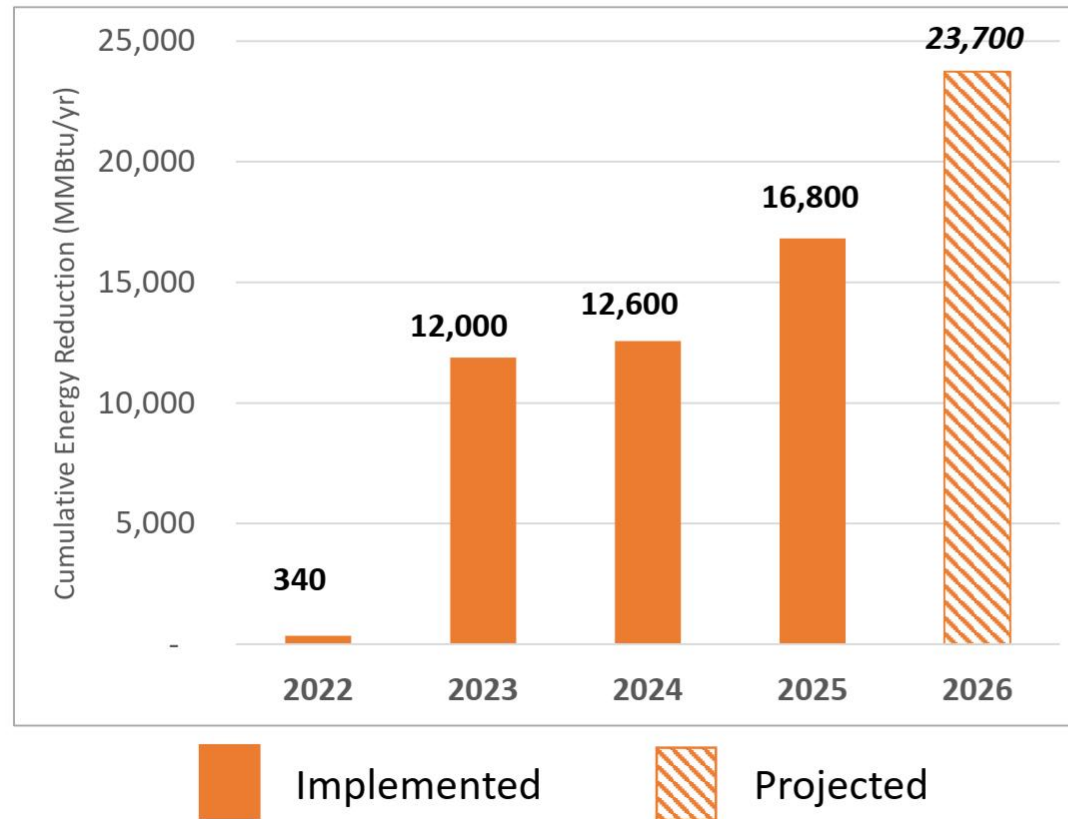
County gov. are only **2.5% of emissions** in Fairfax County; however, the county is **leading by example**.
Overall goal of energy carbon neutrality by 2040.

On the resilience side, adapting our buildings to warmer, wetter, weirder → service continuity.

5. Facilities and Operations

Government Buildings: Energy Efficiency & Solar

**Cumulative Annual Energy Reductions
Implemented (MMBtu/yr) – ESPC Projects**

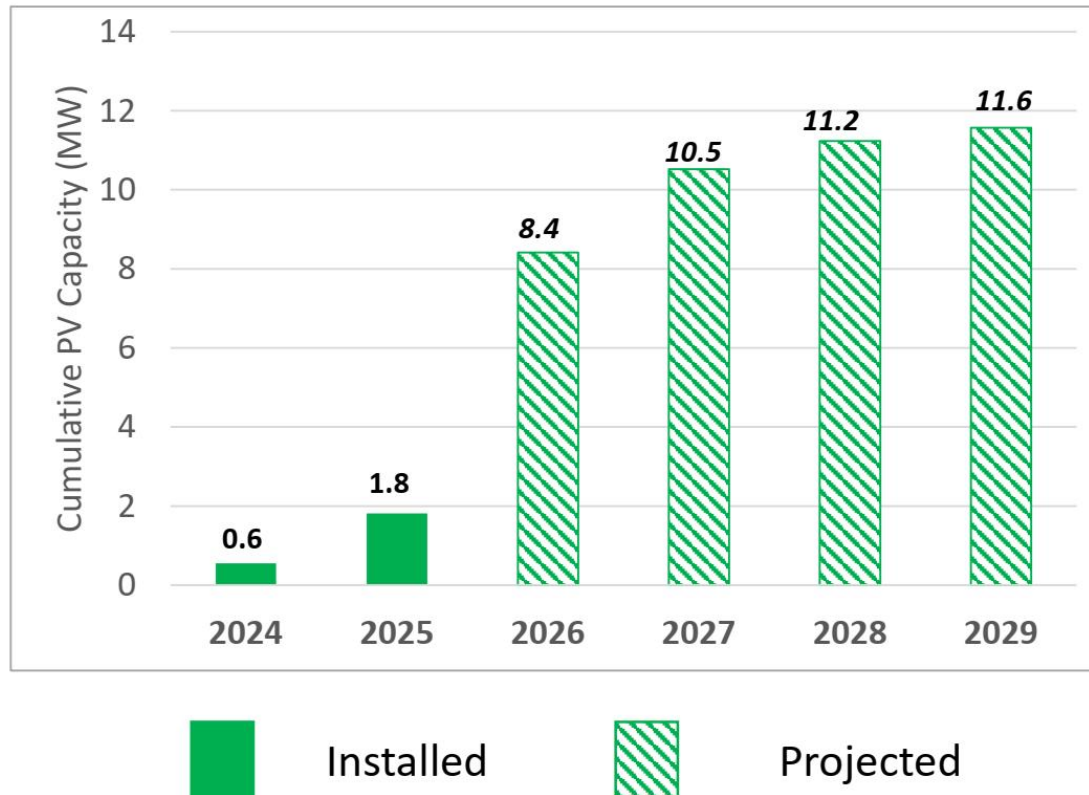


**Reston Community Center
Heating System Upgrade**

5. Facilities and Operations

Government Buildings: Energy Efficiency & Solar

Cumulative Solar Photovoltaic Capacity Installed (MW)

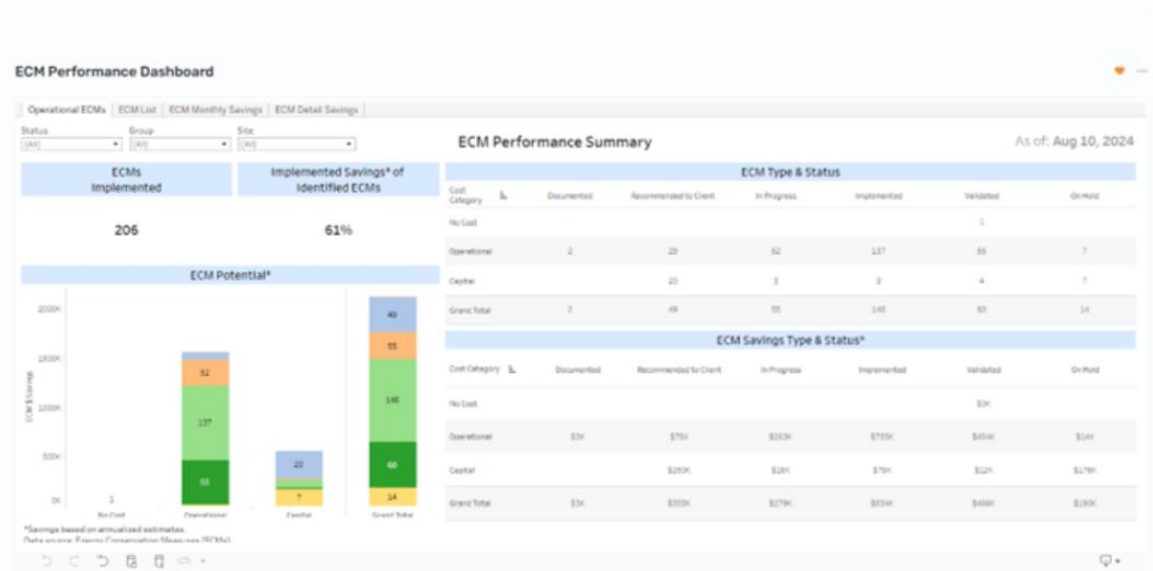


Facilities and Operations

Additional Opportunities for Energy Efficiency & Solar

Building Automation Systems (BAS)

- Optimize building energy performance through continuous monitoring and



Source: InSite

Virtual Power Purchase Agreement (VPPA)

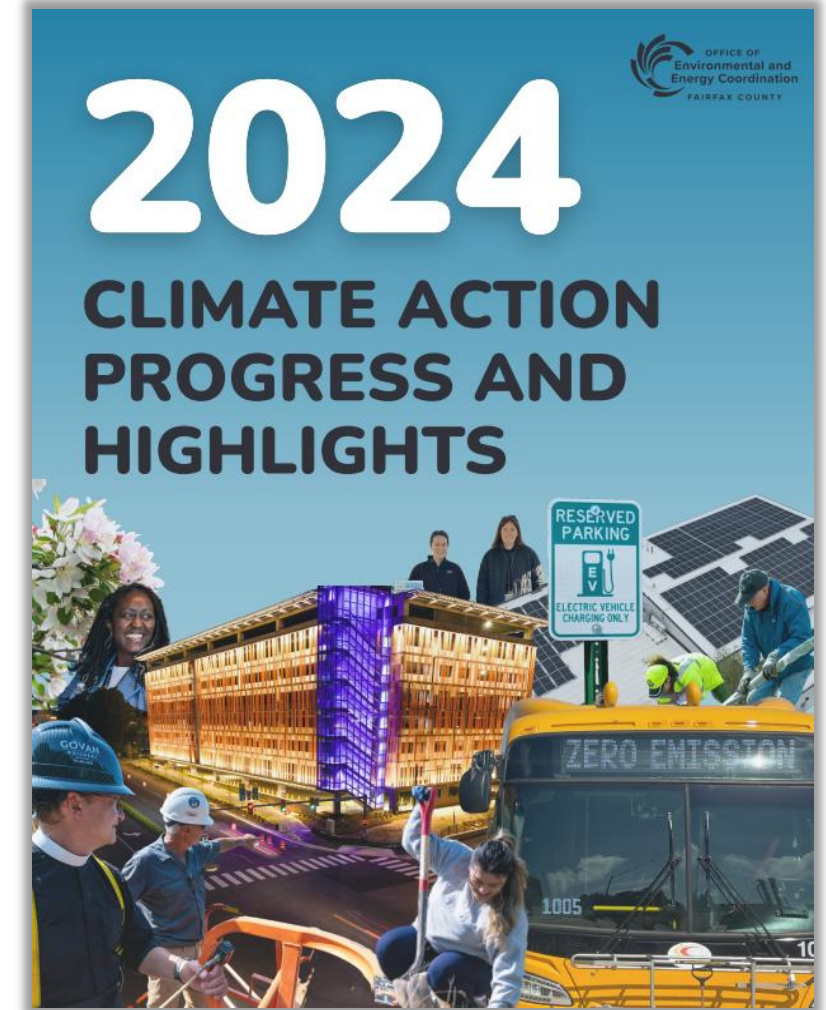
- A contract between a renewable energy generator and a buyer, where the energy produced is sold into the wholesale market



Source: Madison Energy Infrastructure

Stay Informed and Take Action

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- ☐ Subscribe and Read Newsletter
- ☐ Attend an Event
- ☐ Apply for a Program
- ☐ Follow Us on Social Media



Facebook: www.facebook.com/fairfaxcountyclimate/

X (Twitter): x.com/@ffxgreen

LinkedIn: linkedin.com/showcase/fairfaxcountygreenbusinesspartners

[2024 Climate Progress and Highlights](#)



Community Aid, Education, Engagement, Incentives

ORGANIZATIONS

Energy Conservation Assistance Program (ECAP)



(OEEC & NVSWCD)
Energy help for
HOAs, places of
worship



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Charge Up Fairfax



(OEEC)
Technical &
financial help for
HOA EV chargers



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INDIVIDUALS

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(OEEC)
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platform, campaign
for climate actions



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