



# BOS Retreat - Environmental Initiatives

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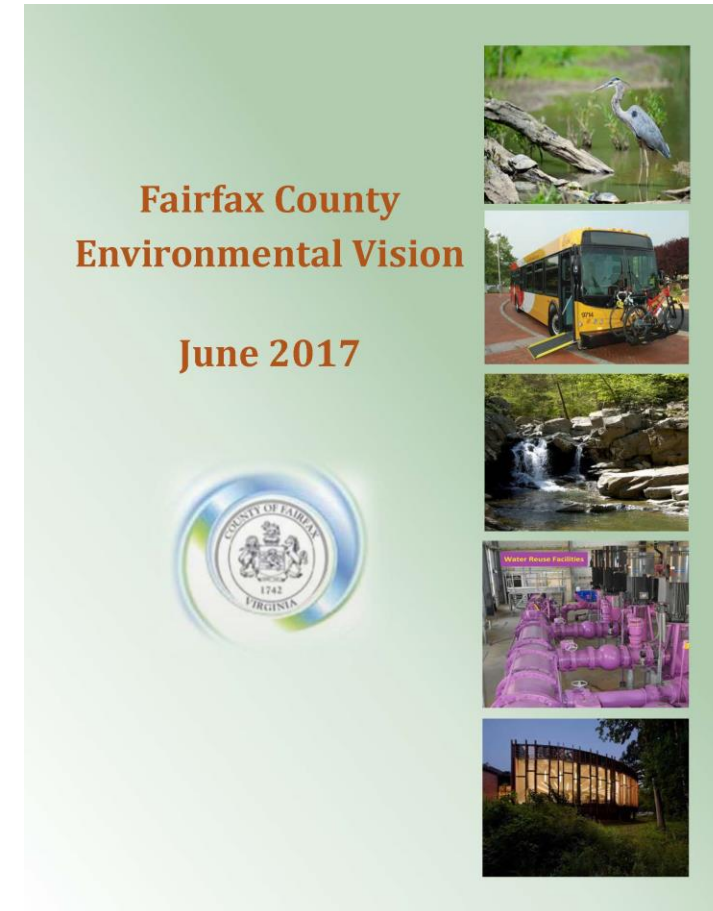
# BOS Retreat - Environmental Initiatives

## Purpose:

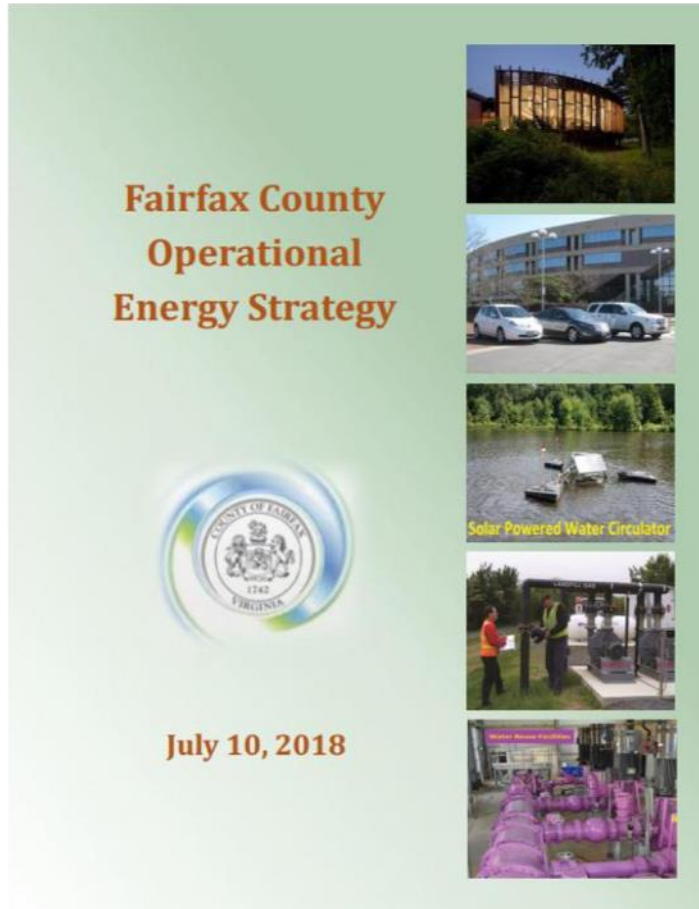
- Overview of Environmental Vision
- Overview of Operational Energy Strategy
- Overview of Environmental Initiatives ***Informational Matrix***
  - Examples of existing policy and initiatives
  - Examples of new opportunities for collaboration
- Overview of Board of Supervisors Environmental Committee

# Environmental Vision

- Seven core service areas
  - Land Use
  - Transportation
  - Water
  - Waste Management
  - Parks and Ecological Resources
  - Climate and Energy
  - Environmental Stewardship



# Operational Energy Strategy



- Ten focus areas
  - Energy Use & Efficiency
  - Water Use & Efficiency
  - Green Building
  - Innovative Energy Solutions
  - Electric Vehicles
  - Goods and Services
  - Waste Management
  - Awareness & Engagement
  - Utility Cost Management
  - Reporting & Collaboration



# Informational Matrix Overview – Part 1

PART 1: Environmental Vision	
Service Area	Vision
<b>Parks and Ecological Resources</b>	Parks, trails, and green space provide habitat and other ecological resources that promote the physical and mental well-being of residents through supporting healthy lifestyles and allowing for interaction with our natural environment. A comprehensive county trails system, such as the Cross-County and W&OD Trails, can provide means for environmentally responsible transportation. Ecological resources that include the soil, water, air, plants, animals, ecosystems and the services they provide are considered natural capital and green infrastructure. The public, or ecosystem, services provided by this green infrastructure are often more cost-effective than the engineered alternatives, and thus are managed as any other infrastructure or capital asset through deliberate inventory, planning, maintenance, enhancement, and restoration to ensure healthy, high functioning, and resilient ecosystems and environment. Maintaining healthy, natural ecosystems is a priority of Fairfax County.
<b>Climate and Energy</b>	The county will continue its leadership and commitment to promote and encourage energy efficiency and conservation efforts and renewable energy initiatives by employees, employers and residents. The county will work with local authorities, businesses, and residents to encourage sustainable reductions of the county's geographical emissions that will contribute to achieving the targets as identified by the Cool Counties Climate Stabilization Declaration and the Metropolitan Washington Council of Governments. The county also will continue to support attainment of air quality through regional planning and action.
<b>Environmental Stewardship</b>	An informed community works together with Fairfax County and its partners to care for and responsibly manage our treasured natural resources. In partnership, Fairfax County will continue to coordinate and promote education and outreach programs that encourage personal stewardship and promote initiatives at a countywide level.

# Informational Matrix Overview – Part 2

PART 2: Environmental Vision Service Areas			
SERVICE AREA: WATER (Environmental Vision, pp. 13-18)			
Focus Area	Goals	County Government Expectations/Targets	Initiative
<b>Stormwater Management</b>	Promote effective capture and treatment of stormwater runoff at the source to improve water quality in county watersheds and Chesapeake Bay	Meet/exceed County's Municipal Separate Storm Sewer System (MS4) permit requirements	<ul style="list-style-type: none"> <li>Watershed Management Plans</li> <li>Stream Cleanup Pilot Program</li> <li>Stormwater Capital Projects</li> <li>Stream Monitoring and Assessment</li> </ul>
<b>Manage Water Resources to Support Healthy Ecosystems</b>	Recognize stormwater and reuse water as valuable assets to ensure future adequate water supply and protect/improve ecology and water quality of aquatic bodies	Define opportunities and develop strategies to expand the use of stormwater and treated wastewater (reuse water) for irrigation or allowable applications and needs	<ul style="list-style-type: none"> <li>Wastewater Reuse in County Operations</li> <li>Participation in Regional Water Supply Planning Initiatives</li> </ul>
<b>Tree Planting to Improve Water Quality</b>	Incorporate tree planting in county stormwater management practices to assist with compliance of water quality requirements	Extend the county tree canopy coverage to protect water resources and natural ecosystems	<ul style="list-style-type: none"> <li>Tree Action Plan</li> <li>Partnership with FCPS</li> <li>Community Outreach and Engagement</li> </ul>
<b>Wastewater and Stormwater Education and Outreach</b>	Provide audience-specific education, outreach and awareness on local watershed health and water pollution prevention	Meet/exceed MS4 permit educational requirements as well as public involvement and environmental stewardship educational commitments of the Wastewater Management Program	<ul style="list-style-type: none"> <li>Sewer Science Lab</li> <li>Stream Critter Cube Lab</li> <li>Noman M. Cole Jr. Pollution Control Plant Tours</li> </ul>



# Land Use



## *Community-Wide*

- Green Building Policy
  - Policy Plan Amendments
- Solar Incentives
  - SolSmart Gold

## *Internal*

- Sustainable Development Policy
  - Highlights
  - Update

# Transportation

- Multimodal Transportation Initiatives
  - Fairfax Connector
  - Free Student Bus Pass Program
  - Justice High School Metrobus Pilot Student Pass
  - Bicycle Program
  - Ride Sharing Facilities, Programs





# Water



- Watershed Management Plans
- Stormwater Management
  - Stream Cleanup Pilot Program
- Wastewater Management
  - Noman M. Cole Jr. Pollution Control Plant, Sustainability Initiatives

# Waste Management

- Recycling Initiatives
  - Purple Can Club
  - Waste Disposal Programs
- Waste-to-Energy
- Landfill Gas
- Wastewater Reuse
- Honeybee Initiative Pollinator Project





# Parks and Ecological Resources



- Open Space Management
- Natural Resource Management
  - Pollinator Meadows
  - Natural Landscaping
- Urban Forest Management
  - Tree Action Plan



# Climate and Energy

- Community-Wide Energy and Climate Action Plan (CECAP)
- Commercial Property Assessed Clean Energy Program (C-PACE)
- Operational Energy Strategy
  - Solar Power Purchase Agreement (PPA) Contracts
  - LED Streetlight Conversion Program
  - Upcoming Energy Service Company (ESCO) RFP
  - Upcoming Electric Vehicle (EV) Charging RFP
- Energy Masters
- Fairfax Employees for Environmental Excellence (FEEE)



# Environmental Stewardship



- Energy Action Fairfax
  - Solarize
  - LED Lightbulb Exchanges
  - Thermal Camera Loan Program
  - Green Business Partners
- DPWES - FCPS Programs
  - Tree plantings
  - Stormwater, Wastewater programs
- EIP funded initiatives
  - FCPA, NVSWCD programs



# Board of Supervisors Environmental Committee

- Committee of the Whole
- Quarterly Meetings
- Purpose
  - Mechanism to bring forward Board and/or staff considerations for discussion and action





# For More Information

[One Fairfax](#)

[Fairfax County Environmental Vision](#)

[Fairfax County Operational Energy Strategy](#)

[Sustainability Initiatives](#)

[Green Buildings](#)

[Cool Counties](#)

[Energy News](#)

[DPWES Educational Resources](#)

[DPWES News Stories](#)



# Glossary

- **CECAP** – Community-Wide Energy and Climate Action Plan
- **C-PACE** – Commercial Property Assessed Clean Energy
- **DPWES** – Department of Public Works and Environmental Services
- **DOT** – Department of Transportation
- **EAF** – Energy Action Fairfax
- **EIP** – Environmental Improvement Program
- **ESCO** – Energy Service Company
- **EQAC** – Environmental Quality Advisory Council
- **EV** – Electric Vehicle
- **FCG** – Fairfax County Government
- **FCPA** – Fairfax County Park Authority
- **FEEE** – Fairfax Employees for Environmental Excellence
- **HIPP** – Honeybee Initiative Pollinator Project
- **LED** – Light-emitting diode
- **MGD** – Million gallons per day
- **MS4** – Municipal Separate Storm Sewer System
- **NVSWCD** – Northern Virginia Soil and Water Conservation District
- **OEEC** – Office of Environmental & Energy Coordination
- **OES** – Operational Energy Strategy
- **PPA** – Power Purchase Agreement
- **RFP** – Request for Proposal
- **SWMP** – Solid Waste Management Program
- **UFMD** – Urban Forestry Management Division
- **VACo** – Virginia Association of Counties