



PRINCE WILLIAM
COUNTY

July Sustainability Commission Meeting Office of Sustainability Updates

Office of Sustainability

July 2025



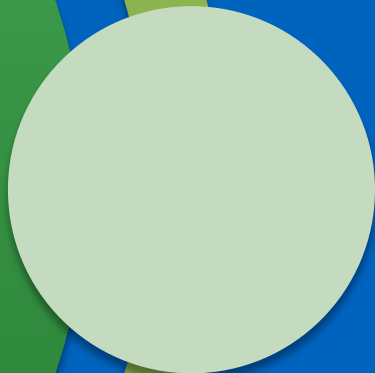
Agenda

1. Strategic Plan Implementation
2. Interdepartmental Coordination
 - Environmental Sustainability Workgroup
 - County Gov Operations GHG Inventory
 - Proffers
 - Legislative Agenda
3. External Support & Recognition

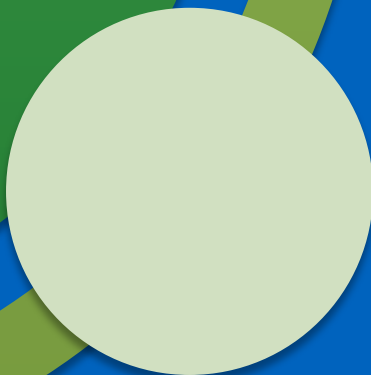




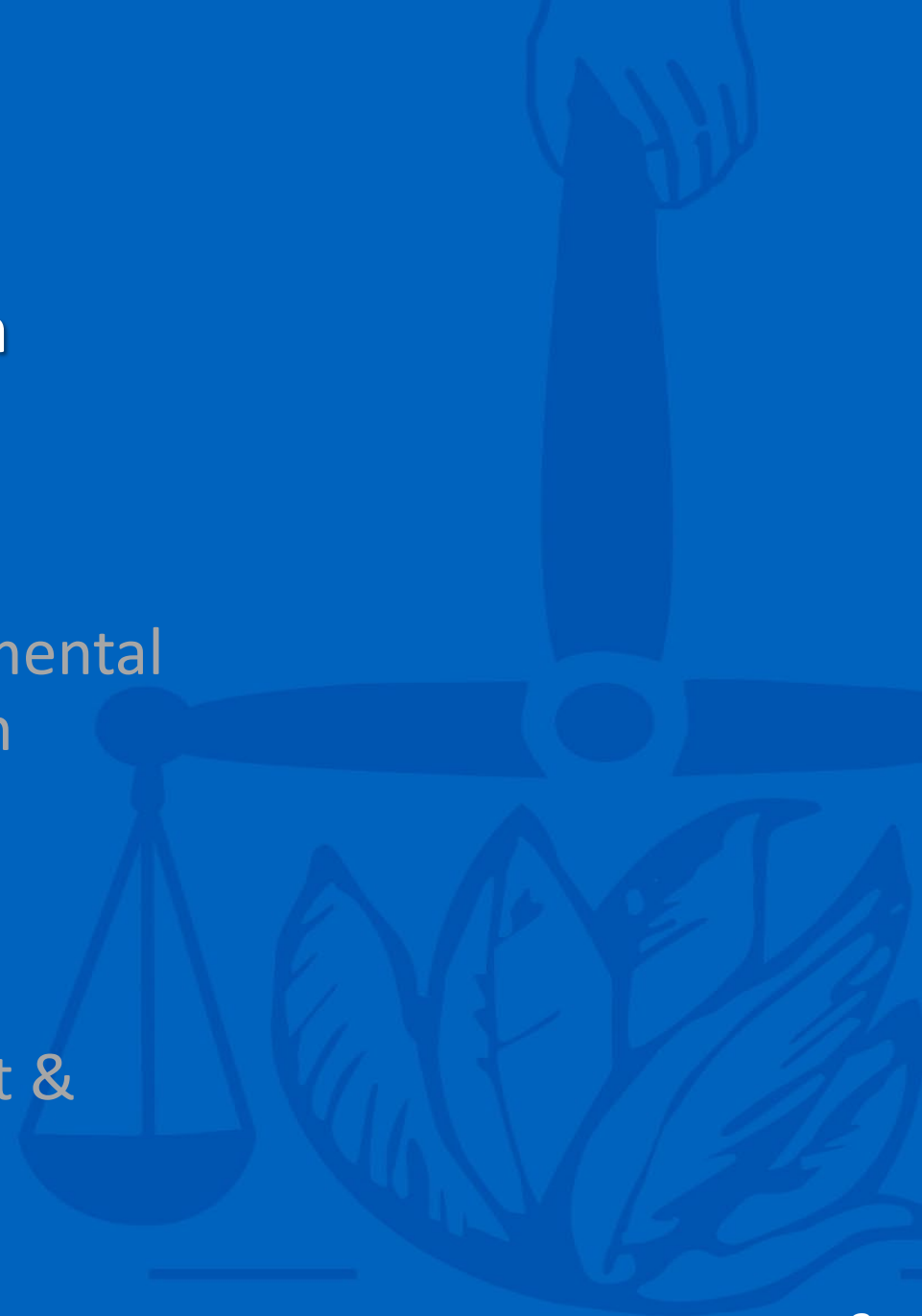
Strategic Plan Implementation



Interdepartmental
Coordination



External Support &
Recognition



Community Energy and Sustainability Master Plan (CESMP) Framework

25 Priority Actions

Community Energy and Sustainability Master Plan (CESMP)



Energy

- E.1. Acquire Clean Electricity Sources for the County
- E.2. Promote Renewable Energy Incentive Programs and Develop Additional Solar Incentives
- E.3. Encourage Renewable Energy Use in Energy-Intensive Commercial Buildings
- E.4. Promote Existing Green Power Products
- E.5. Install Solar on County Government Facilities



Buildings

- B.1. Encourage Energy Efficiency and Electrification Retrofits
- B.2. Propose Green Zoning Regulations
- B.3. Encourage Energy Efficient and Electric New Construction
- B.4. Promote Energy Efficiency and Electrification Incentives
- B.5. Transition to Net-Zero County Government Facilities



Transportation

- T.1. Improve Pedestrian and Bicycle Infrastructure and Enhance Connectivity
- T.2. Encourage Transit-Orientated Development
- T.3. Expand Existing Programs that Reduce Single-Occupancy Vehicle Trips
- T.4. Upgrade Public Transit Infrastructure
- T.5. Encourage Zero-Emission Vehicles and Charging
- T.6. Expand Public EV Charging Network
- T.7. Adopt Zero- or Low-Emissions County Fleet



Natural Resources

- N.1. Adopt Natural Open Space Requirements



Adaptation

- A.1. Develop Adaptation Plans for Critical Facilities
- A.2. Manage Stormwater Flooding Outside of the Floodplain
- A.3. Improve Power Resiliency for Critical Infrastructure
- A.4. Assess Shoreline Protection and Nature-Based Solutions
- A.5. Restore Streams to Reduce Flooding
- A.6. Encourage Technology for Residents to Make Homes Adaptive
- A.7. Plan Alternate Evacuation Routes for Flood-prone Areas

CESMP Foundational Program-wide Sustainability Initiatives



**IMPLEMENT ADAPTIVE
MANAGEMENT TECHNIQUES**



**ASSESS THE CLIMATE MITIGATION
AND RESILIENCY IMPACT OF
COUNTY PROJECTS**



**BUILD INSTITUTIONAL CAPACITY
TO PURSUE GRANTS AND PUBLIC
OUTREACH**

Strategic Plan Framework

Goal

Education

Environment

Government

Mobility

Quality of Life

Safe & Secure
Community

Service
Delivery

Smart Growth

Objectives

- Each goal has 4 – 6 objectives

Strategies

- Each objective has 2 – 5 strategies

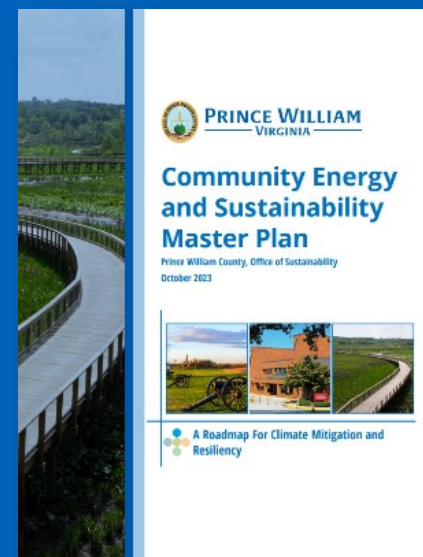
The Strategic Plan is Aligned with the CESMP

- Incorporated CESMP actions into the Strategic Plan
 - 24% of the Strategic Plan involves Sustainability
- Leading the Strategic Plan Environment Goal efforts

Environment Goal

Preserve the County's natural beauty and resources so that open spaces are created and maintained, and residents can enjoy nature.

- Hosted workshops to draft Work Plans for the 5 objectives
 - Invited relevant subject matter experts to contribute
- Likely to get more support for budget requests that accomplish CESMP actions if requests are connected to the Strategic Plan





Environmental Goal Objectives Alignment with the CESMP

1 Safeguard the quality of the County's air, water, and other natural resources to ensure they are not compromised for the current and future generations.

2 Enhance and expand public parks, trails, and green spaces to improve accessibility.

3 Utilize the CESMP and Comprehensive Plan to guide decision-making and encourage leadership, businesses, and residents to help the Board achieve climate mitigation and resiliency goals.

4 Support and incentivize the development and use of renewable energy sources to reduce impacts on air quality and the environment.

5 Reduce and mitigate the impacts of flooding in communities.

Objectives					High Priority CESMP Actions
1	2	3	4	5	
		✓	✓		E.1. Acquire Clean Electricity Sources for the County
		✓	✓		E.2. Promote Renewable Energy Incentive Programs and Develop Additional Solar Incentives
		✓	✓		E.3. Encourage Renewable Energy Use in Energy-Intensive Commercial Buildings
		✓	✓		E.4. Promote Existing Green Power Products
		✓	✓		E.5. Install Solar on County Government Facilities
		✓	✓		B.1. Encourage Energy Efficiency and Electrification Retrofits
✓	✓	✓	✓		B.2. Propose Green Zoning Regulations
✓		✓	✓		B.3. Encourage Energy Efficient and Electric New Construction
		✓	✓		B.4. Promote Energy Efficiency and Electrification Incentives
		✓	✓		B.5. Transition to Net-Zero County Government Facilities
✓	✓	✓	✓		T.1. Improve Pedestrian and Bicycle Infrastructure and Enhance Connectivity
✓	✓	✓	✓		T.2. Encourage Transit-Orientated Development
	✓	✓	✓		T.3. Expand Existing Programs that Reduce Single-Occupancy Vehicle Trips
✓	✓	✓	✓		T.4. Upgrade Public Transit Infrastructure
		✓	✓		T.5. Encourage Zero-Emission Vehicles and Charging
		✓	✓		T.6. Expand Public EV Charging Network
		✓	✓		T.7. Adopt Zero- or Low-Emissions County Fleet
✓	✓	✓	✓		N.1. Adopt Natural Open Space Requirements
		✓	✓	✓	A.1. Develop Adaptation Plans for Critical Facilities
✓		✓	✓	✓	A.2. Manage Stormwater Flooding Outside of the Floodplain
		✓	✓	✓	A.3. Improve Power Resiliency for Critical Infrastructure
✓		✓	✓	✓	A.4. Assess Shoreline Protection and Nature-Based Solutions
✓		✓	✓	✓	A.5. Restore Streams to Reduce Flooding
		✓	✓		A.6. Encourage Technology for Residents to Make Homes Adaptive
		✓	✓	✓	A.7. Plan Alternate Evacuation Routes for Flood-prone Areas

Strategic Plan will be implemented by Goal Teams

Environment Goal Team

Cooperative Extension	Development Services	Emergency Management	Facilities & Fleet Management	Parks & Recreation
Planning Office	Public Works	Sustainability Office	Transportation	Virginia Department of Health

- Sustainability is also on the Smart Growth and Mobility Goal Teams
- Goal Teams will report on progress at quarterly BOCS work sessions
- The County will publish an annual report

Strategic Plan progress will be tracked by Key Performance Indicators (KPIs)

Environment Goal KPIs

MEASURE	BASELINE	TARGET (Annual)
Pollutant reductions through water quality improvement projects (Nitrogen, Phosphorous, Sediment)	Nitrogen: 8,636 lbs/yr Phosphorous: 1,892 lbs/yr Sediment: 954 tons/yr (FY25)	Pollutant reduction targets: Nitrogen: reduce by 2,000 lbs/yr Phosphorous: reduce by 300 lbs/yr Sediment: reduce by 500 tons/yr (FY26)
Number of miles of trails in PWC	62 (FY24)	71 (FY26)
Reduce PWC government operations scope 1 and scope 2 greenhouse gas (GHG) emissions by 10% from CY2024	TBD	5% annual reduction
% of residents who respond satisfied with “the County’s environmental and sustainability efforts”	62%	65%



Strategic Plan
Implementation



**Interdepartmental
Coordination**

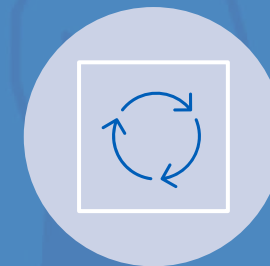
External Support &
Recognition

CESMP Core Team is now the “Environmental Sustainability Workgroup”



- Expanded to cover progress on implementing
 - CESMP
 - Strategic Plan Environment Goal
- Shared Teams Site
 - Folders for meeting, outreach, and educational materials
 - Shared calendar where departments can add events
 - Will consider creating subcommittees

Purpose of Quarterly Sustainability Workgroup Meetings



IMPLEMENT ADAPTIVE
MANAGEMENT TECHNIQUES



Brief departments on the Office of Sustainability's efforts



Share progress on CESMP, Strategic Plan, and other sustainability actions



Highlight successes & discuss challenges



Identify areas for collaboration

Department-specific Coordination





Update on developing the first greenhouse gas (GHG) inventory for County government operations

- A foundational step for climate actions, establishing a clear baseline for County goals, including:
 - **SP Environment KPI** - "Reduce PWC Government operations scope 1 and scope 2 greenhouse gas emissions by 10%"
- County government's energy users and sources of GHG emissions have been identified
- Working with Facilities and Fleet Management (FFM) on unifying the enterprise-wide utility bill pay to simplify data reporting at Agency-level



Sustainability Coordinates with the Planning Office

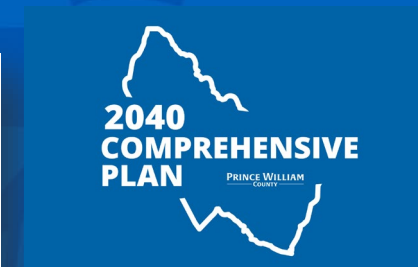
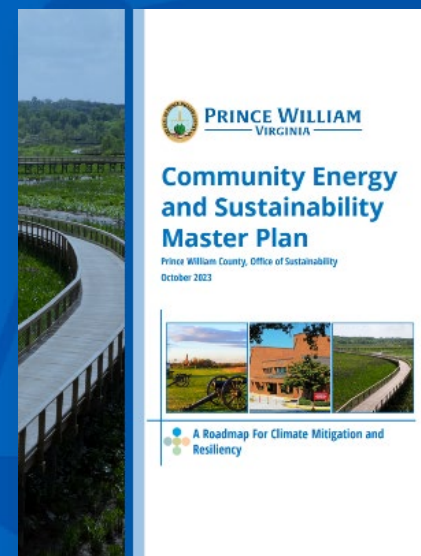
- Coordinating with the Planning Office and Emergency Management on the Comprehensive Plan Amendment (CPA) to incorporate the CESMP and resilience into the Comprehensive Plan
 - Scope finalized and project kicked off
 - Contractors will reach out to stakeholders for input, including the Sustainability Commission

Proffers

- Sustainability sent Planning the Commission's proffer recommendations
- Continued conversation between Sustainability and Planning on impactful proffer language



ASSESS THE CLIMATE
MITIGATION AND RESILIENCY
IMPACT OF COUNTY PROJECTS



Legislative Agenda

- Sustainability submitted input to Communications Office
 - Forwarded the Sustainability Commission's recommendations
- Final Legislative Agenda expected in November



Updates about Staff Capacity

- Internship Program
 - Lauren Kelley focused on Outreach and Marketing Material.
- Starting recruitment process for the two positions in Draft FY26 Budget in August
 - Green Buildings Manager
 - Residential and commercial building emissions together are the largest contributor to PWC's GHG emissions.
 - This position will work to identify and implement energy efficiency and renewable energy measures to reduce GHGs from County government and county-wide buildings.
 - Climate & Resilience Manager
 - This position will provide the expertise needed to strategically protect the County's assets, including socially vulnerable populations and natural resources, from increasingly intense climate hazards.



**BUILD INSTITUTIONAL
CAPACITY TO PURSUE GRANTS
AND PUBLIC OUTREACH**

A diagram consisting of three overlapping circles. The top circle is light green and labeled "Strategic Plan Implementation". The middle circle is light green and labeled "Interdepartmental Coordination". The bottom circle is light green and labeled "External Support & Recognition". The circles are arranged in a triangular pattern, with the bottom circle overlapping the other two. A large green circle is partially visible on the left side of the slide.

Strategic Plan
Implementation

Interdepartmental
Coordination



**External Support &
Recognition**

Outside Support Updates



- **SolSmart:** Designated Bronze!
- Department of Energy (DOE) Clean Energy to Communities (E2C)
 - **Expert Match:** Support for developing EV charging guidance for installing fleet and public charging stations.
 - **Peer Learning Cohort:** Navigating Electricity Load Growth and Associated Utility Grid Impacts
- **PJM Cities and Communities Coalition (CCC):** Coalition of localities advocating for reducing grid carbon emissions
- **Solarize PWC extended by one month to August 15th!**



Thank you for your time!

