

REGION FORWARD COALITION

Sustainability Measures













Stephen Walz
Director, Department of Environmental Programs

October 25, 2019

Item 5

Region Forward: Measuring Progress

Sustainability Targets — October 2019

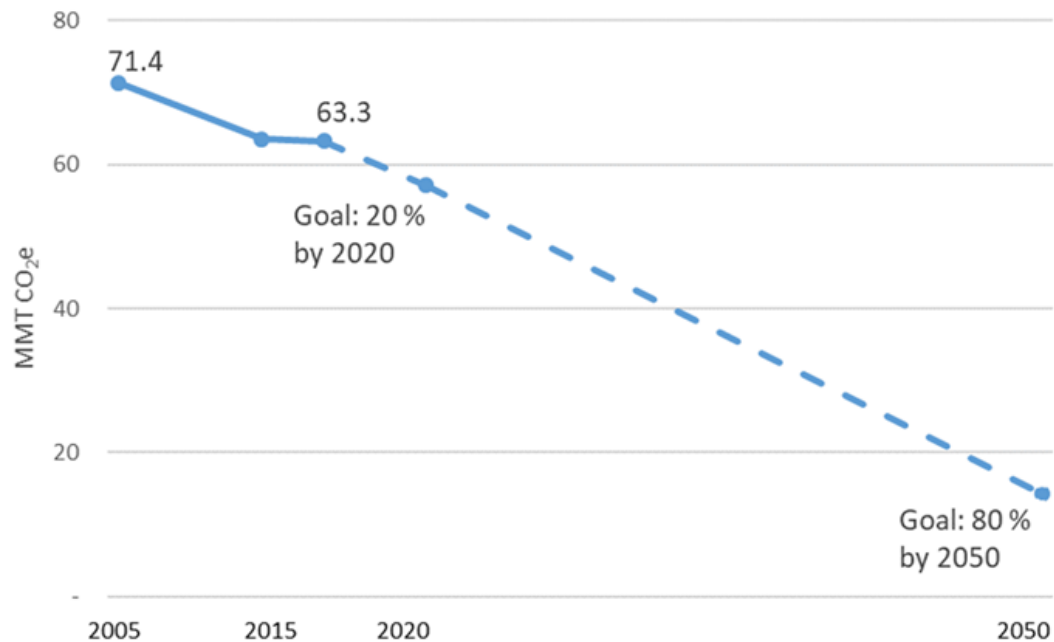
TARGET	LATEST ESTIMATE	TREND	MEET / DO NOT MEET TARGET	SOURCE/ LATEST DATA
<p>By 2020, construct 5,000 certified green buildings</p> <p><small>(Target revised to show number of high-performance buildings. The data on square footage of LEED commercial construction is no longer available)</small></p>	4,198			COG Climate and Energy Progress Dashboard - https://www.mwcog.org/environment/data-and-tools/climate-and-energy-progress
<p>By 2020, reduce regional greenhouse gas emissions by 20% below 2005 levels</p>	10%			COG Climate and Energy Progress Dashboard - https://www.mwcog.org/environment/data-and-tools/climate-and-energy-progress
<p>Beginning in 2014, the region's air quality will be improving and ambient concentrations will be reduced below federal standards (0.70)</p>	0.72			COG Air Quality Dashboard - https://www.mwcog.org/environment/data-and-tools/air-quality-
<p>The region will identify, conserve, and enhance a network of protected open spaces, parks and green infrastructure to provide ecological benefits, wildlife habitat, recreational opportunities, and scenic beauty</p>	26%			Chesapeake Bay Program GIS data - https://www.chesapeakebay.net/what/data , 2015-2016
<p>By 2050, 50% of all sentinel watersheds will be in good or excellent condition</p>	Data not updated since 2010	Not Determined	Not Determined	Chesapeake Watershed stream health data - http://www.chesapeakeprogress.com/abundant-life/stream-health
<p>By 2025, achieve 100% of Chesapeake Bay Program's Water Quality Implementation Goals</p>	100%			Chesapeake Bay Total Maximum Daily Load (TMDL) Tracker, https://tmdl.chesapeakebay.net/
<p>Beginning in 2012, the region will maintain more than 497,500 acres of its area for agricultural uses</p>	480,281			USDA Census of Agricultural ² https://www.agcensus.usda.gov/ , 2012

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Sustainability Targets — October 2019

TARGET	By 2020, reduce regional greenhouse gas emissions by 20% below 2005 levels
LATEST ESTIMATE	11%
TREND	↓
MEET / DO NOT MEET TARGET	✘

Progress Towards Metropolitan Washington Greenhouse Gas Emission Reduction Goals



Source: COG [Climate & Energy Progress Dashboard](#)

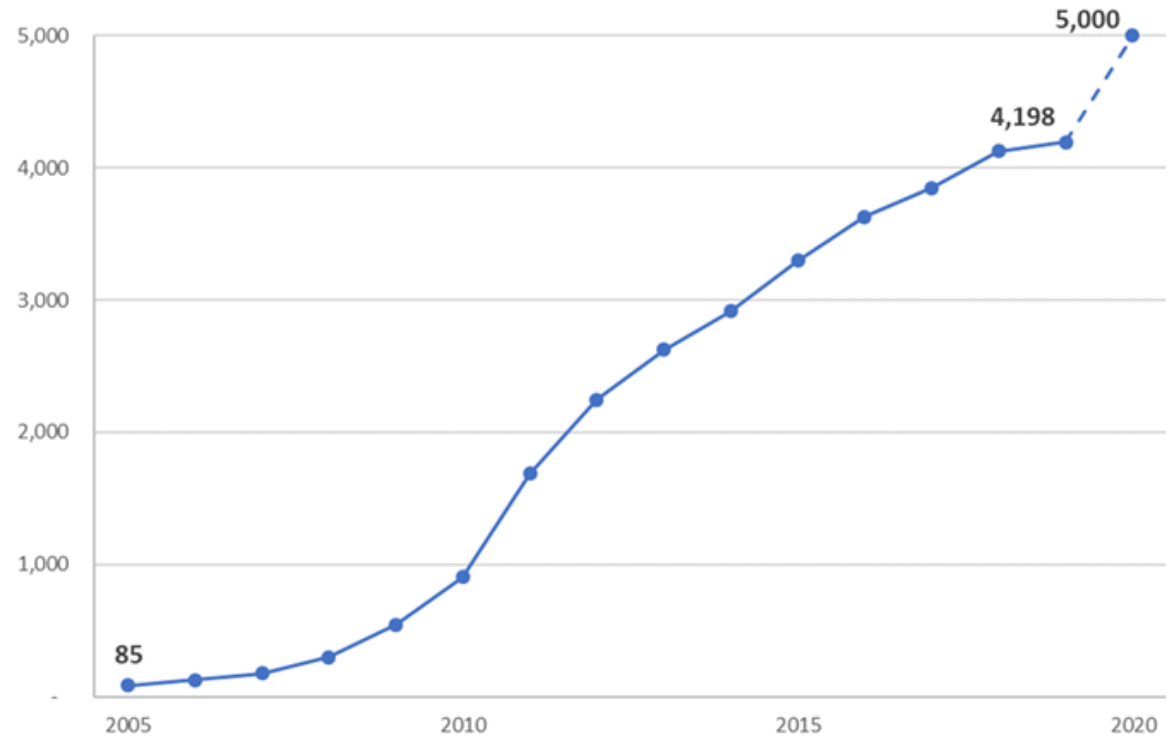


Region Forward: Measuring Progress

Sustainability Targets — October 2019

TARGET	<p>By 2020, construct 5,000 certified green buildings</p> <p><small>(Target revised to show number of high-performance buildings. The data on square footage of LEED commercial construction is no longer available)</small></p>
LATEST ESTIMATE	4,198
TREND	↑
MEET / DO NOT MEET TARGET	✘

Progress Towards Increasing High Performance Buildings



Source: COG [Climate & Energy Progress Dashboard](#)

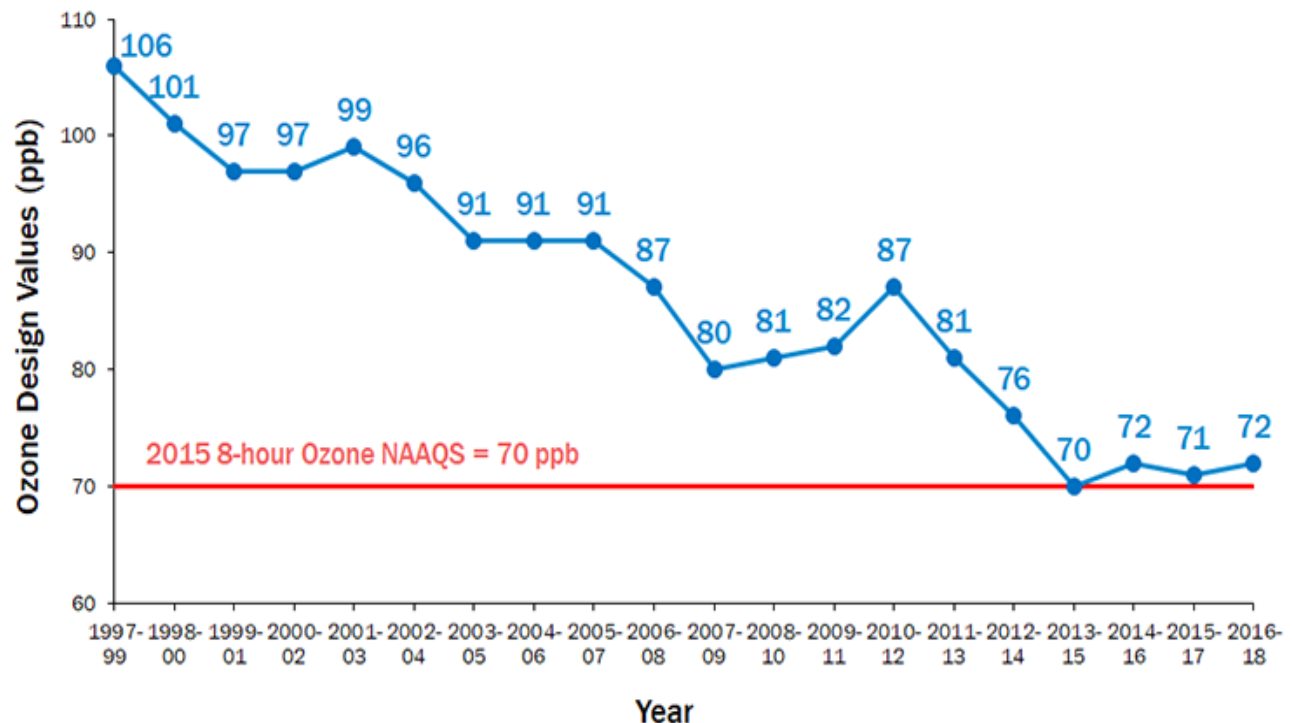


Region Forward: Measuring Progress

Sustainability Targets — October 2019

TARGET	Beginning in 2014, the region's air quality will be improving and ambient concentrations will be reduced below federal standards (0.70)
LATEST ESTIMATE	0.72
TREND	➔
MEET / DO NOT MEET TARGET	✘

8-Hour Ozone Design Values



Source: COG [Air Quality Progress Dashboard](#)

Region Forward: Measuring Progress

Sustainability Targets – October 2019

TARGET

By 2025, achieve 100% of Chesapeake Bay Program's Water Quality Implementation Goals

LATEST ESTIMATE

100%

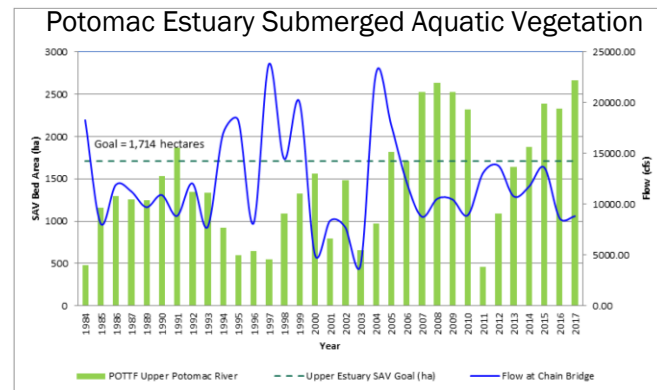
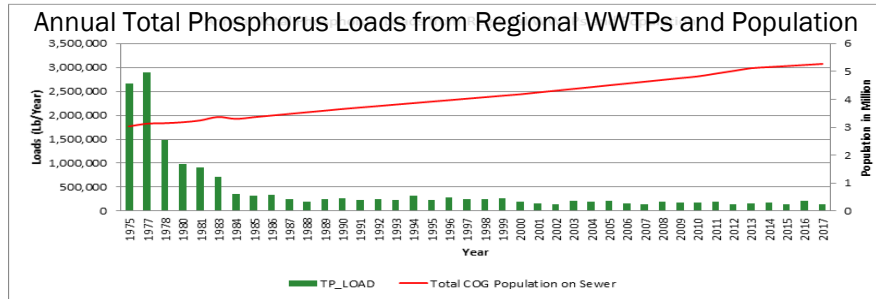
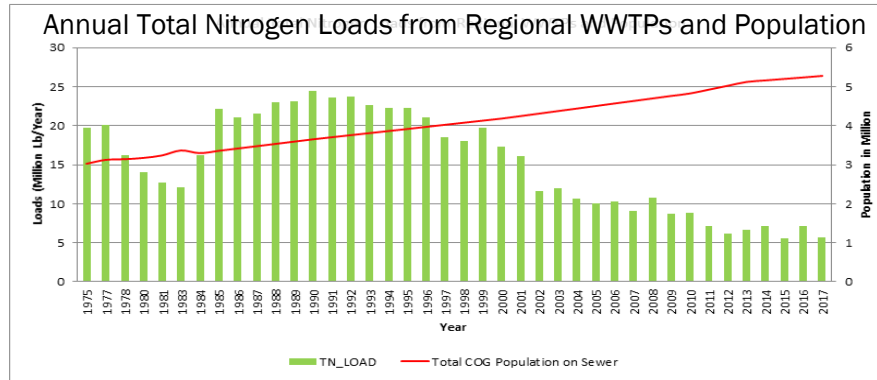
TREND



MEET / DO NOT MEET TARGET



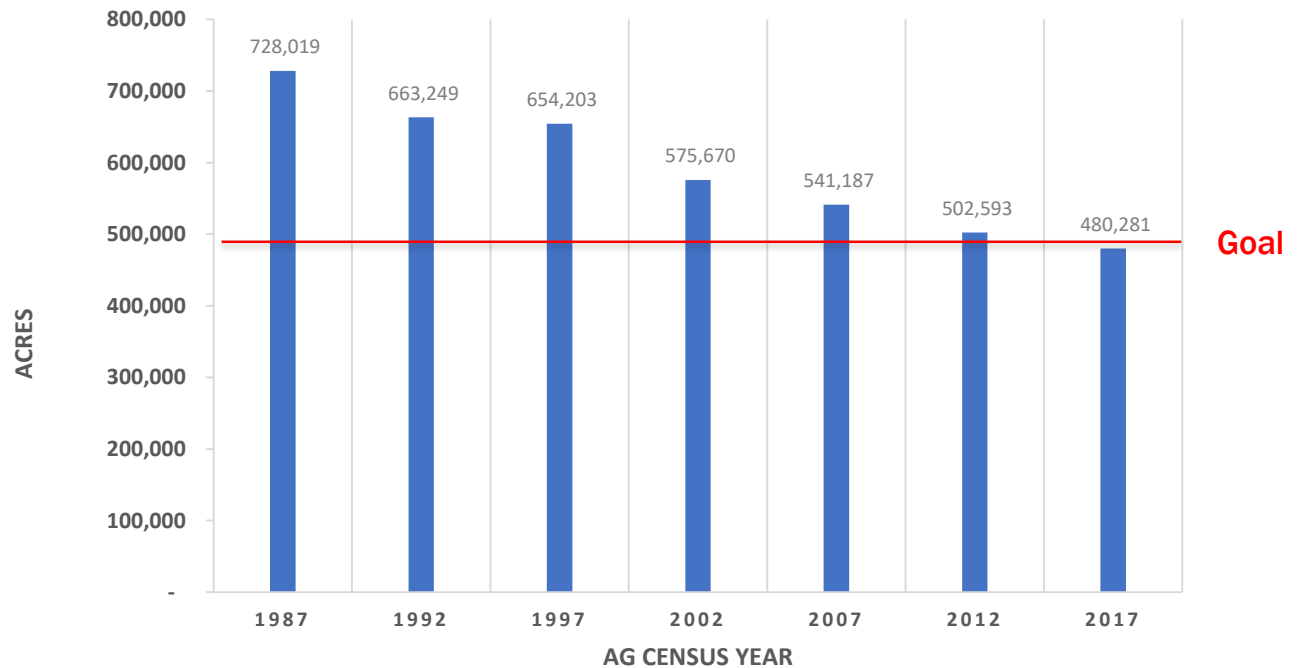
(Measures current attainment of TMDL wastewater nutrient limits)



Region Forward: Measuring Progress

Sustainability Targets — October 2019

Acres of Land in Farms



Source: COG analysis of [USDA Census of Agriculture](#)

TARGET

Beginning in 2012, the region will maintain more than 497,500 acres of its area for agricultural uses

LATEST ESTIMATE

480,281

TREND



MEET / DO NOT MEET TARGET



(Original 450,000 acre goal adjusted to include Charles County)



Region Forward: Measuring Progress

Sustainability Targets — October 2019

Equity

- 2017-2020 Climate & Energy Action Plan
 - Incorporate social equity, cultural sensitivity, and community health considerations into local climate change planning, program, and policy decisions.

PROTECT EQUITY AND HEALTH		%
7-a	Identify the community's priorities for equitable environmental improvements. Provide data and resources to support decision-making of priorities.	25%
7-b	Conduct cumulative environmental and health impact assessments in underserved communities.	25%
7-c	Integrate equity and health considerations and strategies into climate and energy policies, plans, and programs. Identify impacts of policies and programs to underserved populations and communities and how to maximize positive impacts and minimize negative impacts.	25%
7-d	Develop a healthy food access or food security plan.	25%
7-e	Direct environmental incentives towards vulnerable populations.	25%
7-f	Provide training to local government staff on successful public engagement techniques, equity and diversity.	25%
7-g	Support community environmental monitoring programs to increase community participation in gathering and accessing community data (e.g., citizen science).	25%
7-h	Provide meaningful engagement forums and community leadership development opportunities to enhance citizen's knowledge on the local environmental planning process, how to influence environmental decision-making, and how to access data, technical assistance, and resources.	50%



Region Forward: Measuring Progress

Sustainability Targets – October 2019

Equity

- Global Covenant of Mayors Common Reporting Framework
 - European Experience – COG is focus of North American definition
 - Energy poverty
 - Inability to realize essential capabilities due to insufficient access to affordable, reliable, and safe energy services
 - Energy Access Plan
 - Access of vulnerable populations to
 - Secure energy
 - Sustainable energy
 - Affordable energy
- Climate Risk Vulnerability Assessment
 - Identify, map & assess climate hazards
 - Assess vulnerability – assets & populations/vulnerable groups
 - Assess adaptive capacity
 - Risk = Probability x Consequence

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