# Regional Climate and Energy Action Plan

## **DRAFT CONCEPT**

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Climate, Energy and Environment Policy Committee (CEEPC) September 28, 2016



# **Draft Concept**

- 1. Region Forward Goals
- 2. Principles
- 3. 2020 Objectives and Outcomes
  - Tracking Progress
- 4. Local Actions Menu



# **Region Forward Goals**



#### **Land Use**

- Preservation of neighborhoods, historic sites, and resource lands
- Transit oriented mixed used growth in Activity Centers



### **Transportation**

- Accessible, affordable transportation choices
- · Maximize community connectivity



### **Climate and Energy**

- Reduce GHG emissions, focus on built environment and transportation
- Efficient use of energy, rely on renewables and alternative fuels



### **Environment**

- Meet/exceed standards for air, water, and land
- Preserve/enhance open space, green space, and wildlife preserves



### **Public Safety**

- · Safe communities
- Partnerships that manage emergencies, protect the public health, safety, welfare



#### **Education**

- Greater access to the best education at all levels
- Region a pre-eminent knowledge hub



### Housing

- Variety of housing types and choices
- Production, preservation, and distribution of affordable housing



#### **Health and Human Services**

· Every person enjoys health and well-being



### **Economy**

- Diversified, stable, and competitive economy
- Minimize economic disparities



# **Region Forward Goals**



#### Land Use

- · Preservation of neighborhoods, historic sites, and resource lands
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## **Public Safety**

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10% by 2012

80% by 2050

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#### Climate and En

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### **Economy**

- Diversified, stable, and competitive economy
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# **Principles**

- Build an ecosystem to support application at scale
- Flexibility and innovation to be best in class leader
- Integration in plans and operations
- Local economic growth and resiliency
- Equity in planning and implementation
- Outreach, education and partnerships



# 2020 Objectives and Outcomes

Objectives	2020 Outcomes
Reduce Greenhouse Gas Emissions	↓ 20% (below 2005 levels)
Reduce Energy Consumption	↓ 1% per year
Increase Share of Renewables	<ul><li>↑ 20% of generation from renewables</li><li>↑ 25K grid-connected renewables</li></ul>
Advance Sustainable Regional Mobility	<ul><li>↓ 5% transportation sector GHG emissions</li><li>↑ 150,000 EV &amp; hybrid owners</li><li>↑ 800 EV charging stations</li></ul>
Increase Sustainable Urban Development	<ul> <li>↑ rate of growth occurs in activity centers (73% jobs,</li> <li>59% housing, 53% population)*</li> <li>↑ 5,000 high performance buildings</li> </ul>
Move Toward Zero Waste	↑ 50% diversion rate

<sup>\*</sup> Draft Cooperative Forecast 9.0

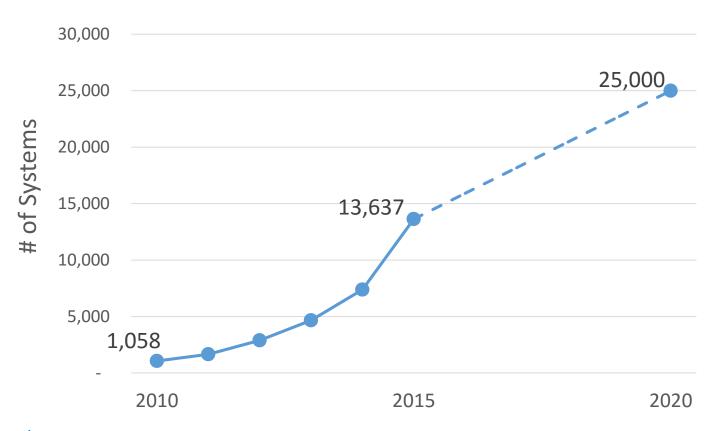


# **Tracking Progress 2.0**



#### DASHBOARD EXAMPLE: RENEWABLES

13,637 grid-connected renewables in 2015, with 132.2 megawatts of capacity





# **Tracking Progress 1.0**

Local Jurisdictions	Community Inventories	Govt Energy Plans	Govt Energy Audits	Encourage Private-Sector Benchmarking	Energy Assurance Planning	Bicycle/ Pedestrian Plans	Green Streets Policies	Green- space Plans	Tree Canopy Goals	Green Business Challenge	Govt Employee Education
District of Columbia	۷۷	٧	<b>VV</b>	√√	VV	<b>VV</b>	<b>VV</b>	٧٧	۷۷	٧٧	٧٧
Suburban Maryland											
Charles County	٧٧	٧٧	-	-	-	٧	-	-	٧	-	٧
Frederick County	٧٧	NR	<b>V</b> V	NR	NR	٧	NR	٧٧	٧٧	٧	NR
City of Frederick	٧٧	-	٧٧	-	-	٧	-	٧	٧٧	-	-
Montgomery County	٧٧	٧	<b>V</b> V	٧	٧	٧	NR	٧٧	٧	٧	٧
City of Gaithersburg	٧٧	٧	٧٧	-	N/A	<b>VV</b>	N/A	٧٧	٧٧	۷۷	٧
City of Rockville	٧٧	٧٧	<b>V</b> V	٧٧	<b>VV</b>	<b>VV</b>	٧	٧٧	٧٧	٧٧	٧
City of Takoma Park	٧٧	٧٧	٧٧	٧	-	٧	-	٧	٧٧	٧٧	٧
Prince George's County	٧٧	٧٧	٧٧	٧	٧	٧	√√	٧٧	٧٧	٧	٧
City of Bowie	٧٧	٧٧	٧٧	-	<b>VV</b>	٧	-	√√	٧٧	۷۷	<b>V</b> V
City of College Park	٧٧	٧	٧٧	N/A	NR	NR	-	-	-	N/A	٧
City of Greenbelt	٧٧	٧٧	٧٧	-	N/A	<b>VV</b>	٧	٧٧	٧٧	-	-
Town of Bladensburg	٧٧	-	-	-	N/A	NR	٧	-	-	-	-
Northern Virginia											
Arlington County	√√	√√	√√	<b>VV</b>	-	√√	-	٧٧	۷۷	٧٧	√√
Fairfax County	٧٧	√√	VV	-	-	٧	٧	<b>V</b> V	√√	٧٧	٧
Loudoun County	٧٧	-	√√	-	-	<b>VV</b>	-	٧٧	٧٧	٧٧	√√
Prince William County	√√	٧	√√	-	-	<b>VV</b>	NR	√√	√√	٧	٧
City of Alexandria	٧٧	٧٧	٧٧	-	٧	<b>VV</b>	٧	٧٧	٧٧	٧٧	<b>V</b> V
City of Fairfax	٧٧	٧	٧	-	-	٧	-	-	-	٧	٧
City of Falls Church	۷۷	-	٧٧	-	-	٧	-	٧	٧٧	-	<b>V</b> V
City of Manassas	۷۷	٧	<b>V</b> V	-	-	٧	<b>V</b> V	٧	۷۷	N/A	-
City of Manassas Park	٧٧	٧	٧	-	-	-	-	٧	-	-	-
# Implemented + In Progress	22	17	20	6	6	19	8	18	18	14	16
% Implemented + In Progress	100%	77%	91%	27%	27%	86%	36%	82%	82%	64%	73%

√√ = Implemented

v = In Progress

- = Not Started

N/A = Not Applicable

NR = No Response



# **Local Action Ideas Menu**

## Purpose

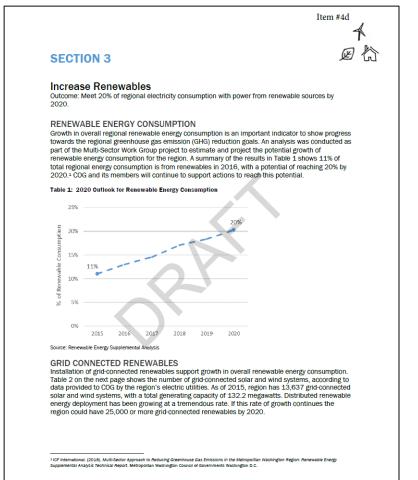
- 1. Shopping list of options to consider for the final Regional Climate and Energy Action Plan.
- 2. Provide ideas for local climate planning and action.

#### **INCREASE RENEWABLES** TRACK Track percent generation from renewables for government operations and community-wide.<sup>2,3</sup> Track renewable energy projects community-wide (e.g. via grid-connected renewables utility data, community solar map, etc.).3,4 PLAN Conduct feasibility studies to evaluate renewable energy potential at public facilities or community-wide.3 Adopt a net zero energy plan or policies.4 **INVEST** a) Install renewable energy systems on local government property.<sup>1</sup> b) Achieve and maintain EPA Green Power Partnership for government operations (minimum percentage standards for renewables that can be met through both on-site generation and green power purchasing).1 Implement innovative pilot initiatives and partnerships to advance new renewable technologies, including deployment and testing of energy storage and recovery technologies.<sup>3,4</sup> Deploy clean, local power sources for off-road equipment use.<sup>2</sup> REQUIRE a) Adopt solar access ordinances and similar regulations to provide a more stable investment environment.<sup>2,3</sup> Require new buildings to be solar-ready.3



# **DRAFT Action Plan and Next Steps**

- Draft Regional Climate and Energy Action Plan will blend the dashboard and top actions from Local Action Ideas Menu
- Input from BEEAC and ACPAC September/ October
- Draft Plan presented to CEEPC in November, CEEPC asked to adopt





DRAFT 2020 Regional Climate and Energy Action Plan I 1

# **Discussion Questions**

- 1. Does the DRAFT Dashboard track the right/useful data?
- 2. Questions/comments on the DRAFT Local Action Ideas Menu?

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