



# Built Environment and Energy Advisory Committee FY 2016 Priorities

Presented to BEEAC

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**Council of Governments**

# Survey Overview and Purpose

- **Survey Purpose**

- Find out what our members needs and priorities are,
- Assist in meeting member needs by developing focused meeting discussions, implementation actions, programs, and projects, and
- Link BEEAC priorities with CEEPC and other related program areas such as MSWG and EV Work Group

- **Data collection**

- Sept. 23 – Oct. 23

- **FY 2016 BEEAC Survey included 12 responses from 12 jurisdictions**

# Local Government Priorities

Focal Measure	Priority Ranking							
	FY 2015				FY 2016			
Solar and other RE	(3) Critical	(3) High	(8) Medium	(3) Low	(3) Critical	(7) High	(2) Medium	
Energy Efficiency	(5) Critical	(8) High	(2) Medium		(4) Critical	(8) High		
Benchmarking	(3) Critical	(6) High	(7) Medium		(1) Critical	(2) High	(4) Medium	(5) Low
Energy Infrastructure Financing	(2) Critical	(5) High	(2) Medium	(7) Low	(3) Critical	(2) High	(1) Medium	(6) Low
AFVs/Evs	(1) Critical	(7) High	(8) Medium		(2) Critical	(7) High	(2) Medium	(1) Low
Smart Grid		(2) High	(6) Medium	(7) Low		(1) High	(5) Medium	(6) Low
Microgrids		(1) High	(7) Medium	(6) Low	(1) Critical	(3) High	(1) Medium	(7) Low
Energy Resiliency		(6) High	(5) Medium	(4) Low		(5) High	(6) Medium	(1) Low
Energy Storage		(3) High	(2) Medium	(10) Low	(1) Critical	(1) High	(3) Medium	(7) Low
Utility Programs		(6) High	(4) Medium	(4) Low		(3) High	(5) Medium	(4) Low
Cooperative Purchase		(6) High	(4) Medium	(4) Low	(1) Critical	(4) High	(4) Medium	(3) Low
High Performance Buildings	(1) Critical	(7) High	(5) Medium	(3) Low	(2) Critical	(4) High	(4) Medium	(2) Low

Priority

## ■ FY2016 Local Government Priorities:

- Solar and other renewable energy technology,
- Energy efficiency, and
- AFVs/EVs.

# BEEAC Priorities: FY15 and 16






























Focal Measure	Priority Ranking					
	FY 2015			FY 2016		
Solar and other RE	(5) High	(9) Medium	(1) Low	(3) Very High	(6) High	(3) Medium
Energy Efficiency	(10) High	(4) Medium		(5) Very High	(5) High	(2) Medium
Benchmarking	(7) High	(7) Medium		(4) High	(6) Medium	(2) Low
Energy Infrastructure Financing	(4) High	(5) Medium	(4) Low	(3) Very High	(3) High	(3) Medium (3) Low
AFVs/Evs	(6) High	(9) Medium		(2) Very High	(6) High	(3) Medium (1) Low
Smart Grid	(2) High	(7) Medium	(5) Low	(5) High	(5) Medium	(2) Low
Microgrids	(1) High	(7) Medium	(6) Low	(1) Very High	(4) High	(3) Medium (4) Low
Energy Resiliency	(6) High	(6) Medium	(2) Low	(3) Very High	(5) High	(3) Medium (1) Low
Energy Storage	(2) High	(8) Medium	(4) Low	(1) Very High	(2) High	(5) Medium (4) Low
Utility Programs	(3) High	(5) Medium	(5) Low	(3) High	(5) Medium	(3) Low
Cooperative Purchase	(5) High	(6) Medium	(3) Low	(1) Very High	(2) High	(7) Medium (1) Low
High Performance Buildings	(5) High	(6) Medium	(3) Low	(4) Very High	(3) High	(4) Medium

## Priority

### ■ FY2016 BEEAC Priorities:

- Renewable energy and solar - commercial and business community solar,
- Energy efficiency - upgrades in existing buildings and residential engagement programs,
- AFVs/EVs - development of regional recommendations regarding EV-ready design,
- Energy resiliency - COG to assist where local governments have limited ability to act, and
- High performance buildings.

# Energy Benchmarking Regional Status

JURISDICTION	PRIORITY LEVEL	TRACKING AND/OR BENCHMARKING STATUS	DETAILS
DC	High	Government: 	Reporting deadline: April 1st of each year
		Commercial: 	<a href="#">Benchmarking help center</a>
<b>MARYLAND</b>			
Bowie	Medium	Government: 	Energy benchmarking started for government facilities
		Commercial: 	Investigating Portfolio Manager for businesses as an item in City's Climate Action Plan
Frederick County	Low	Government: 	Tracking through Portfolio Manager but not benchmarking
		Commercial: 	
Greenbelt	Low	Government: 	Uses ICLEI's CACP
		Commercial: 	
Gaithersburg	Low	Government: 	Benchmarking expected to start soon
		Commercial: 	
Montgomery County	Critical	Government: 	23 facilities by June 1, 2015
		Commercial: 	Requires non-residential buildings (> = 250,000 sq. ft. by Dec. 2016) to benchmark and report to the County for disclosure.
Prince George's County	Low	Government: 	Reports to Portfolio Manager using EnergyCap
		Commercial: 	
Rockville	?	Government: 	Tracks energy consumption by all City utility accounts; In the process of entering data in Portfolio Manager
		Commercial: 	
Takoma Park	?	Government: 	Benchmarking through Portfolio Manager
		Commercial: 	
<b>VIRGINIA</b>			
Alexandria	Medium	Government: 	Completed portfolio-wide energy benchmarking of local government facilities
		Commercial: 	
Arlington County	High	Government: 	Transitioning Building Energy Report Cards to automatically link with EnergyCAP database in County's Open Data platform
		Commercial: 	
Fairfax County	Medium	Government: 	Reports to Portfolio Manager using EnergyCap
		Commercial: 	Under consideration
Loudoun County	Medium	Government: 	Reports to Portfolio Manager through EnergyCap; working towards data purification
		Commercial: 	
Implemented			
In Progress			
Not Implemented			

# 2013-2016 Climate Action Plan (CAP) Goals

**Goal: To reduce to reduce non-transportation energy consumption, which accounts for two thirds of the region's greenhouse gas emissions.**

## ■ The CAP Implementation Actions

- 100% of jurisdictions track and/or benchmark energy performance in all government,
- 75% of jurisdictions participate in a regional EPA Portfolio Manager Master Account Sharing, and
- 75% of jurisdictions disclose energy performance of all government buildings.

## ■ CAP Goal Status

### Benchmarking

- 54% or 12 out of 22 jurisdictions are tracking and/or benchmarking government facilities

### MWCOG CAP Master Account

- 407 properties
- 5 jurisdictions and 1 school: DC, Alexandria, Arlington, Greenbelt, Rockville, and Loudoun County Public Schools

# Legislative Priorities and Program Linkages

## LEGISLATIVE PRIORITIES

- Energy Conservation
- District and renewable energy
- Emission reductions and tracking GHG regulation efforts
- Solar
  - Community solar regulation crafted in MD
  - Renewal of federal tax credits for energy efficiency and solar
  - Solar in the commercial market solar
- Electric vehicles
- Energy Infrastructure
- Energy storage
- Energy resiliency
- Smart grid
- Regional energy financing market development

## Recommended linkages to CEEPC and MSWG Outcomes

- Energy storage
- Micro-grids and energy resiliency
- GHG emission reduction
- Commercial benchmarking
- Alternative vehicles
- Energy infrastructure
- Smart grid
- Efforts to reach 2% reduction in existing buildings
- Residential engagement

# Next Steps

- BEEAC update at next CEEPC meeting
- Develop meeting discussions, schedule and outcomes around identified priorities
  - Update on EV Work Group Activities
  - Commercial real estate and energy financing meeting (Part II)