

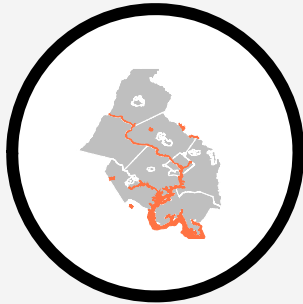
Regional Climate Action Review



ACPAC, May 19, 2014

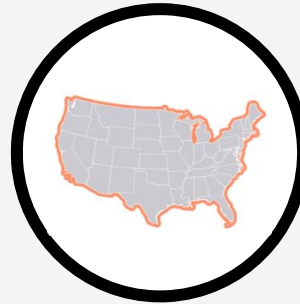


Review



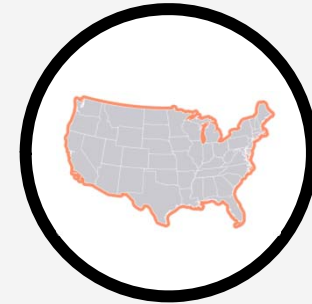
NCR Progress

Review draft survey results on climate and energy action progress in the National Capital Region



Comparison

Review LEED, Energy Star and Green Power Partner Draft Statistics for region's across the country



Best Practices

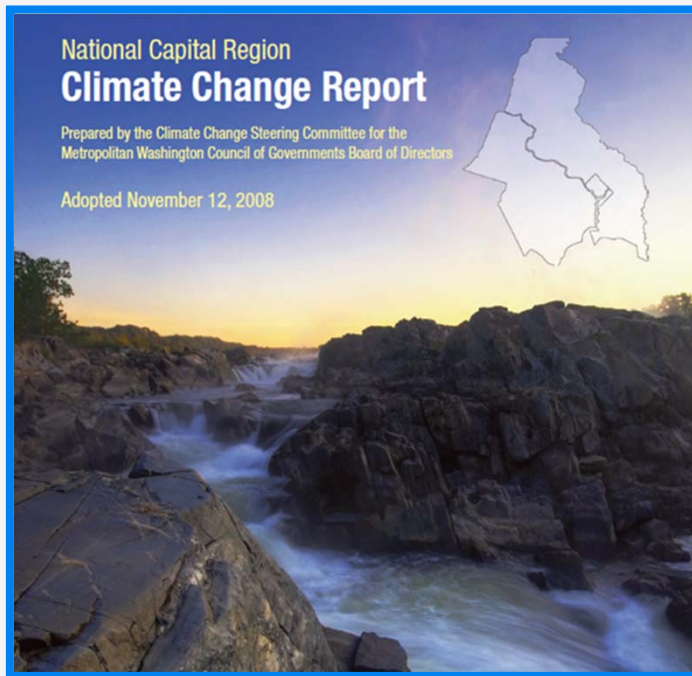
Review best practices for climate action planning from regions across the country



2



National Capital Region



NCR CLIMATE CHANGE REPORT (2008)

Set regional goals to reduce greenhouse gas (GHG) emissions to 10% below business as usual levels by 2012, 20% below 2005 levels by 2020 & 80% below 2005 levels by 2050.

REGION FORWARD (2010)

COG's vision and mission. Draws its climate and energy related goals from the 2008 Climate Change Report.

CLIMATE & ENERGY ACTION PLAN (2013)

Short-term actions to help move the region toward achieving long-term GHG reduction goals. It's the 2nd addition of a CEEPC Action Plan. Original plan timeframe was 2010 – 2012.



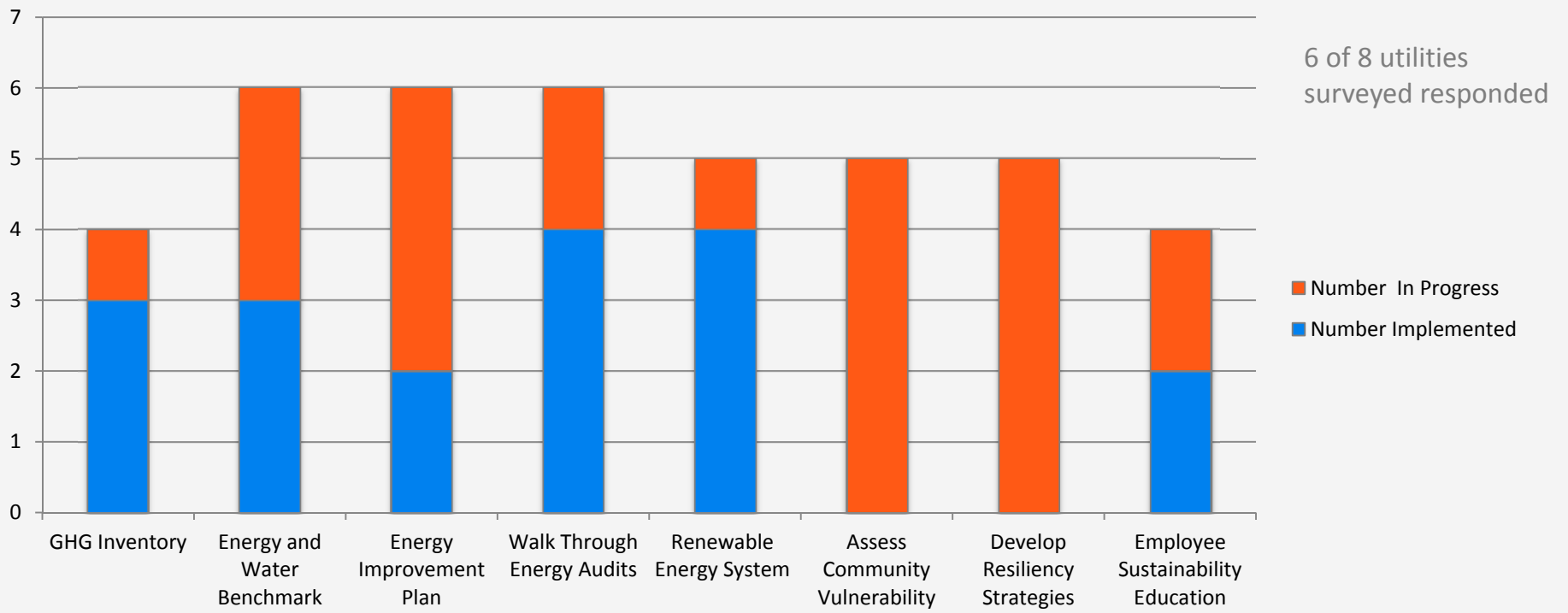
Local Jurisdiction Actions

Local Government	2012 Census Population Estimate ¹	Energy Improvement Plan - Govt Operations	Walk-Through Energy Audits	EPA Green Power Partner	EPA Green Power Communit	Employee Commute Option Program	Complete Streets Policy	Green Streets Policy	Assess Community Vulnerability	Develop Community Resiliency Strategies	Promote EERE Incentives	Employee Sustainability Education
District of Columbia	632,323	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓	✓	✓	✓✓
Suburban Maryland												
Charles County	150,592	✓✓	-	NR	NR	✓✓	✓	-	-	-	✓	✓
Frederick County	173,200	NR	NR	NR	NR	✓✓	-	NR	NR	NR	✓	NR
City of Frederick ²	66,382	-	-	-	-	-	✓	-	-	-	✓	-
Montgomery County	861,466	✓	✓	NR	NR	NR	NR	NR	-	-	✓✓	NR
City of Gaithersburg ²	62,794	-	✓✓	✓✓	-	-	N/A	N/A	-	-	✓✓	-
City of Rockville ²	63,244	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	-	-	-	✓✓	✓
City of Takoma Park ²	17,205	✓	✓✓	-	-	-	-	-	✓	✓	✓	-
Prince George's County	760,932	✓✓	✓✓	N/A	N/A	✓	✓✓	✓✓	✓	-	✓✓	✓✓
City of Bowie ²	56,129	✓✓	-	-	-	-	-	-	✓✓	✓	✓	✓
City of College Park ²	31,208	✓	✓✓	✓✓	✓✓	✓✓	-	-	-	-	-	✓
City of Greenbelt ²	23,541	✓	✓	✓✓	✓	-	-	-	N/A	N/A	✓	-
Town of Bladensburg ²	9,328	NR	NR	NR	NR	✓	NR	✓	-	-	N/A	-
Northern Virginia												
Arlington County	221,045	✓	✓✓	✓✓	-	✓✓	✓✓	-	✓	✓	✓✓	✓✓
Fairfax County	1,118,602	✓✓	✓✓	✓✓ (not current)	-	✓✓	✓✓	✓	✓✓	✓	✓✓	✓✓
Loudoun County	336,898	-	✓	-	-	✓✓	-	-	-	-	-	✓✓
Prince William County	430,289	✓	✓	✓	-	✓✓	N/A	N/A	-	-	-	✓
City of Alexandria	146,294	✓✓	✓✓	✓✓	-	✓✓	✓✓	-	✓	✓	✓✓	✓
City of Fairfax	23,461	✓	✓✓	-	-	-	-	-	✓	-	✓	✓
City of Falls Church	13,229	NR	NR	✓✓	✓✓	NR	✓	NR	NR	NR	-	NR
City of Manassas	40,605	✓	✓✓	-	-	N/A	✓✓	✓✓	-	-	✓	-
City of Manassas Park	15,798	-	✓	NR	NR	✓	-	-	-	-	-	-
Percent Jurisdictions Implemented		27%	50%	41%	18%	45%	32%	14%	9%	0%	32%	23%
Percent Jurisdictions In Progress		41%	23%	5%	5%	14%	14%	9%	27%	27%	41%	32%
Implemented + In Progress		68%	73%	45%	23%	59%	45%	23%	36%	27%	73%	55%
CEPC Action Plan Goal		75%	75%	75%	25%	75%	75%	50%	40%	40%	75%	50%

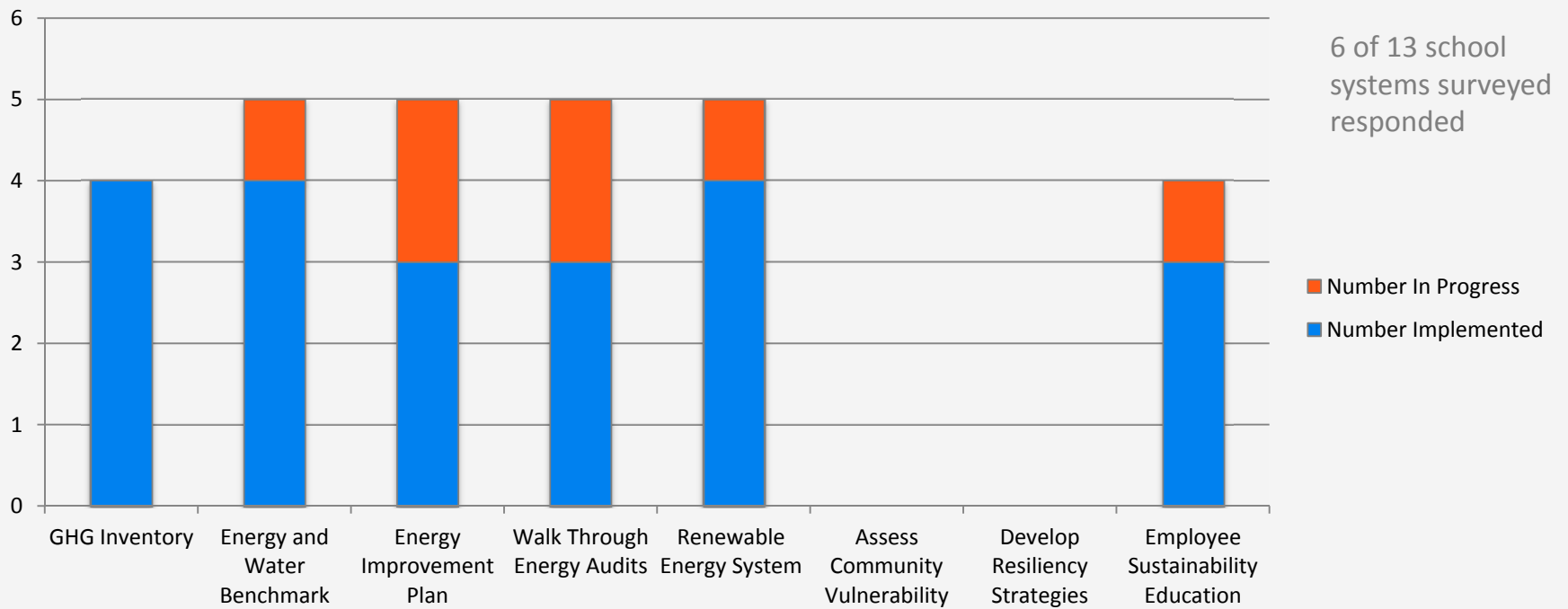
✓✓ = Implemented ✓ = In progress - = Not Started N/A = Not Applicable NR = No Response
¹ Annual Estimates of the Resident Population: 4/1/2010 - 7/ 1/2012 Source: U.S. Census Bureau, Population Division
² Population in Maryland cities is included in appropriate county totals.



Water Utility Actions



School System Actions



Alternative Fuel Vehicles Survey

2,379

**Light-Duty
AFVs**

1,859 of which are ethanol vehicles mainly owned by DC, Fairfax and Prince William Counties.

607

**Medium-Duty
AFVs**

562 of which are biodiesel vehicles mainly owned by DC, Arlington and Prince William Counties

546

**Heavy-Duty
AFVs**

506 of which are biodiesel vehicles owned mainly by DC and DC Water

Cooperative Interests

#1 – Electric vehicles and charging infrastructure

#2 – CNG vehicles, fuel, and stations

#3 – Biodiesel vehicles, fuel, and stations



7



Green Contracts Database



Recycling/Reuse

- Paper Products
- E-Waste
- Toner
- Batteries
- Tires



Facilities Mgmt.

- Cleaning
- Lighting
- Furniture
- Appliances
- Carpet



Office Equip/Supplies

- Computers
- Printers/Copiers
- Recycled-Content Paper



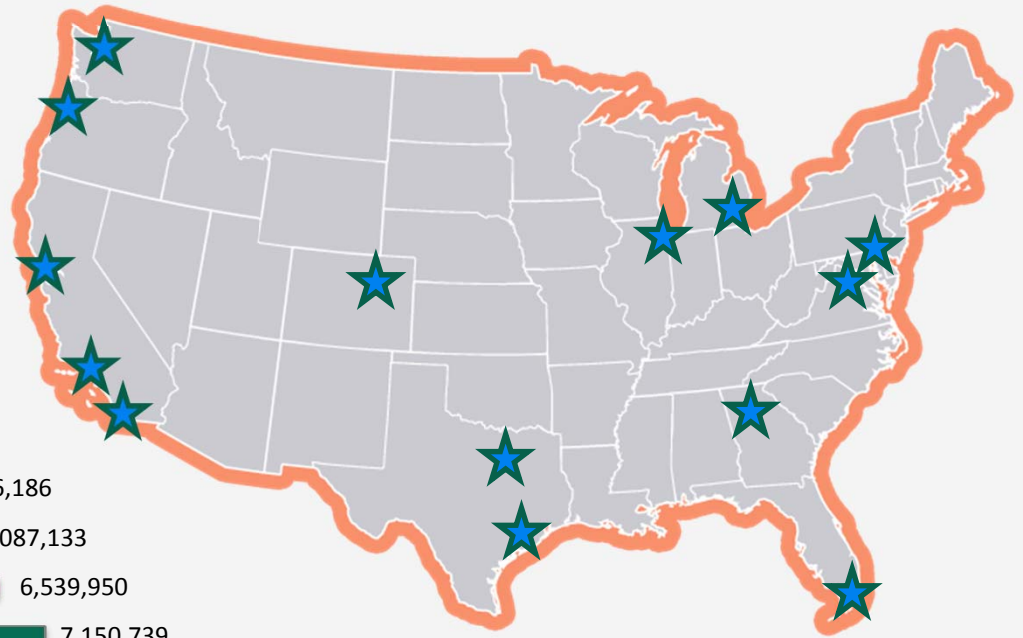
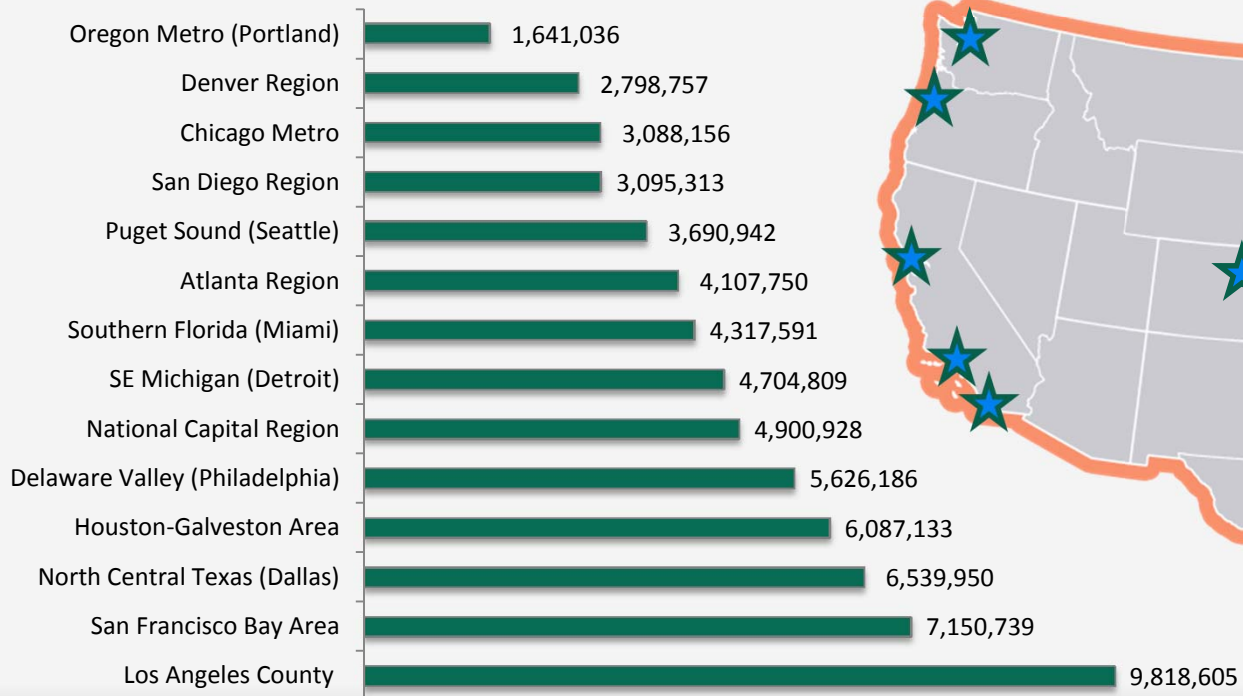
Fleet

- Hybrid vehicles
- Fuel Efficient Vehicles
- Green Car Washing Services



Regional Comparison

2010 Census Population



NCR Rankings and Stats



1560

Total # of LEED Certified Buildings



74

of LEED Platinum Certified Projects



896

Total # of ENERGY STAR Rated Buildings



103

of EPA Green Power Partners



686

of LEED Certified Homes



13

of LEED Projects Certified for Neighborhood Development



>203mil

FT² of ENERGY STAR Rated Floor Space

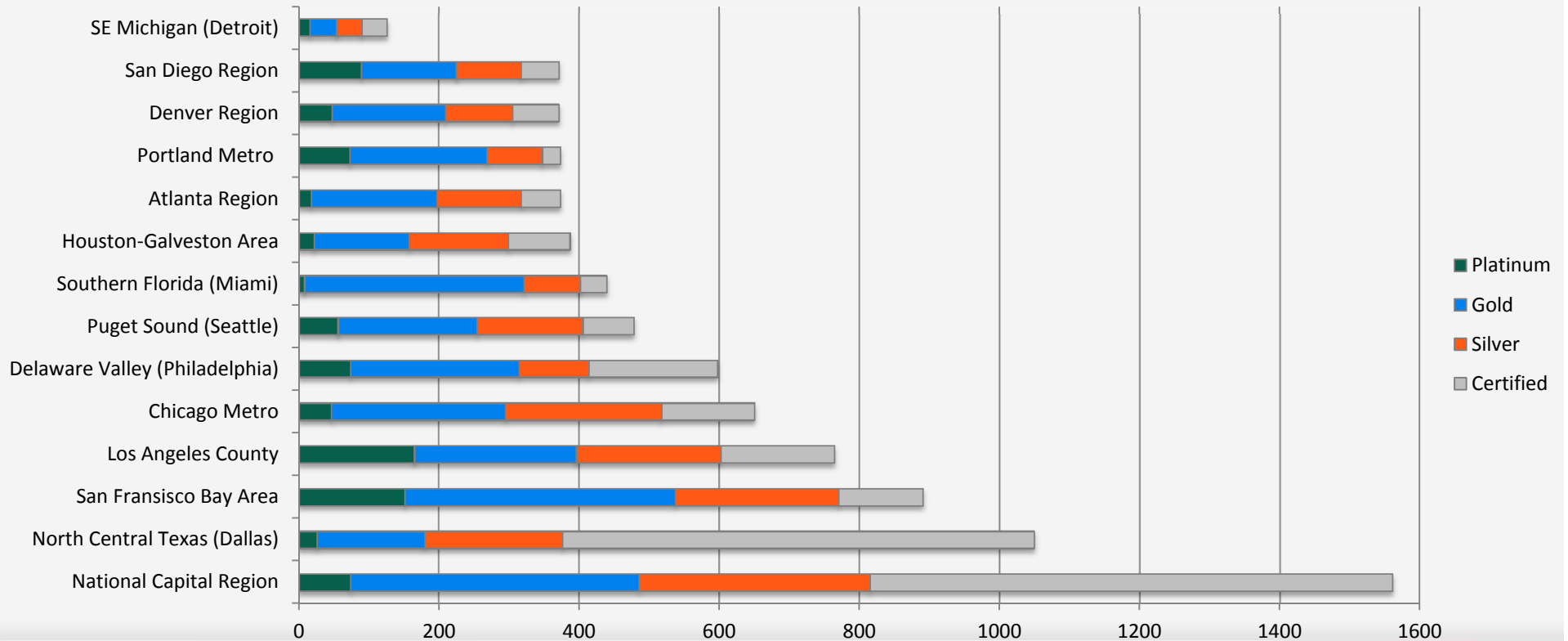


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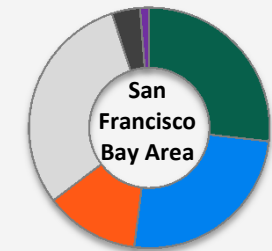
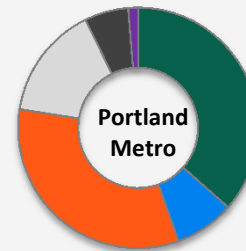
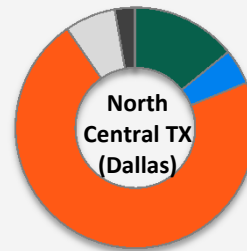
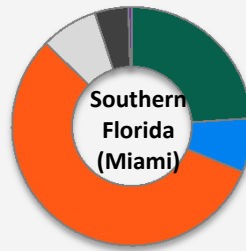
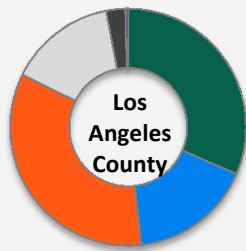
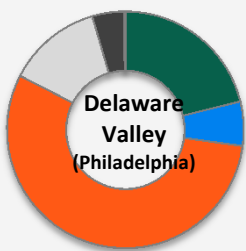
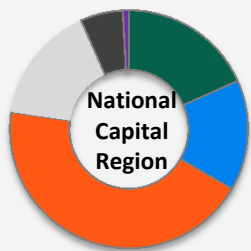
Green Power (kWh) by EPA Green Power Partners



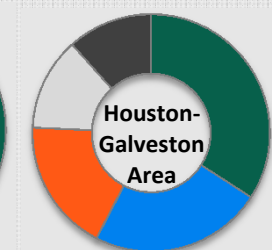
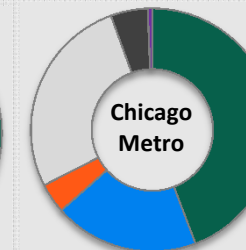
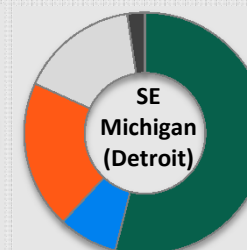
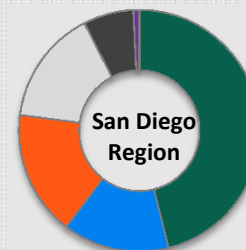
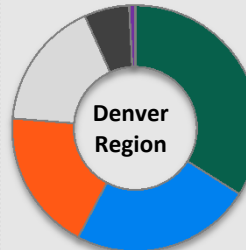
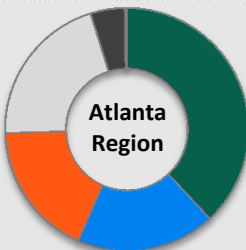
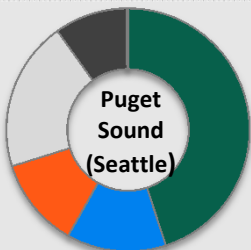
LEED Certification Levels



LEED Rating System

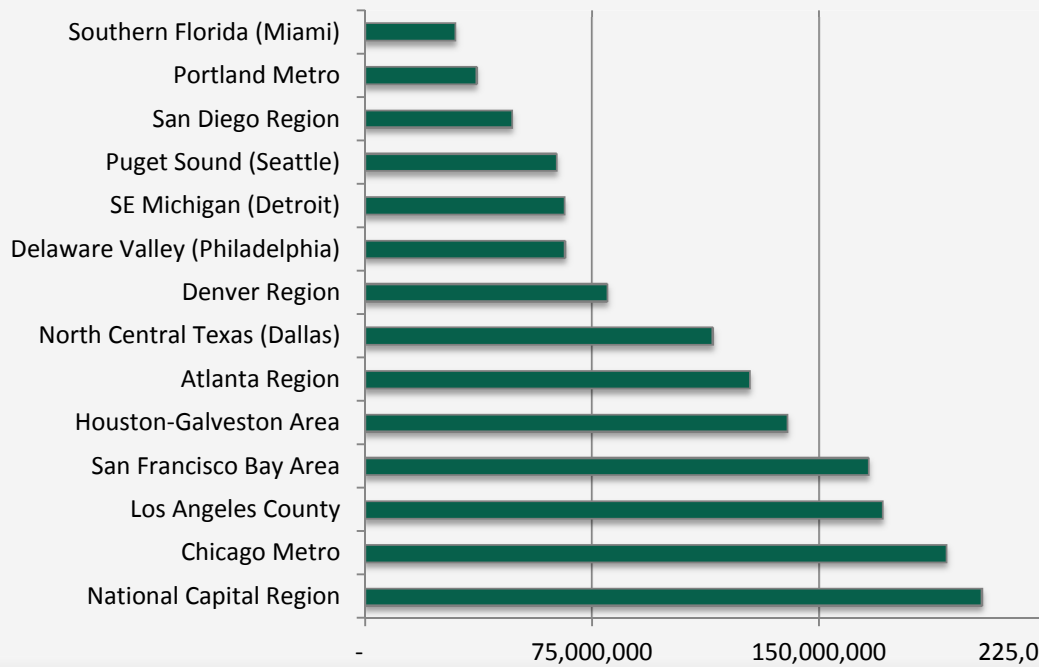


■ LEED-NC ■ LEED-EB ■ LEED Homes ■ LEED-CI □ LEED-CS ■ LEED-ND

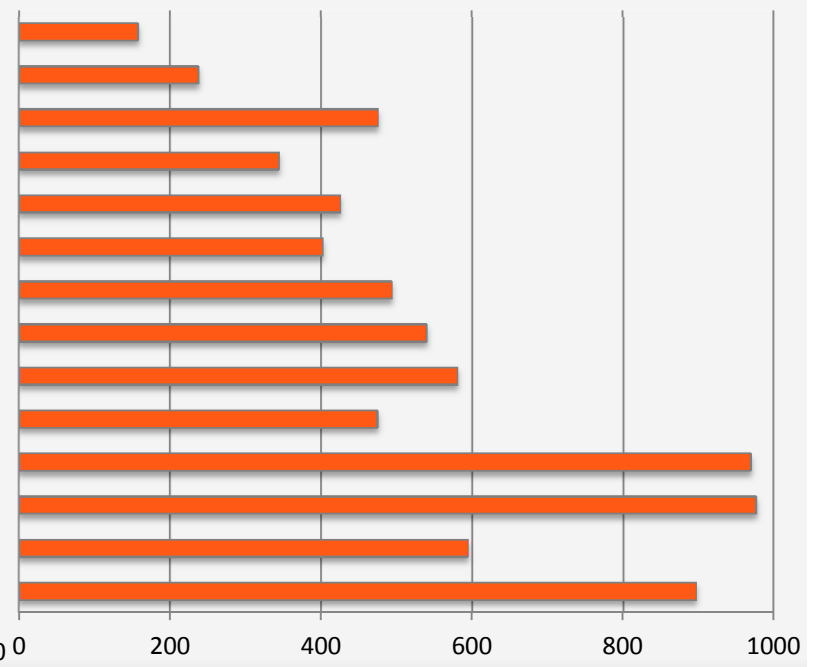


ENERGY STAR Rated Buildings

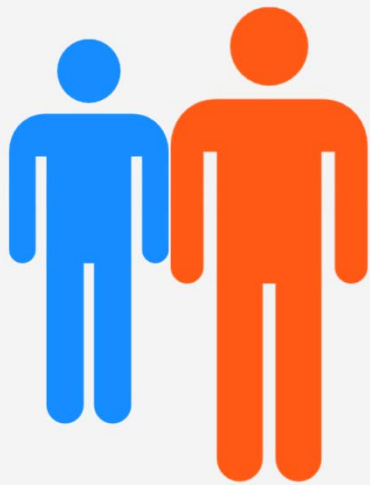
Floor Space (FT²)



Number of Buildings



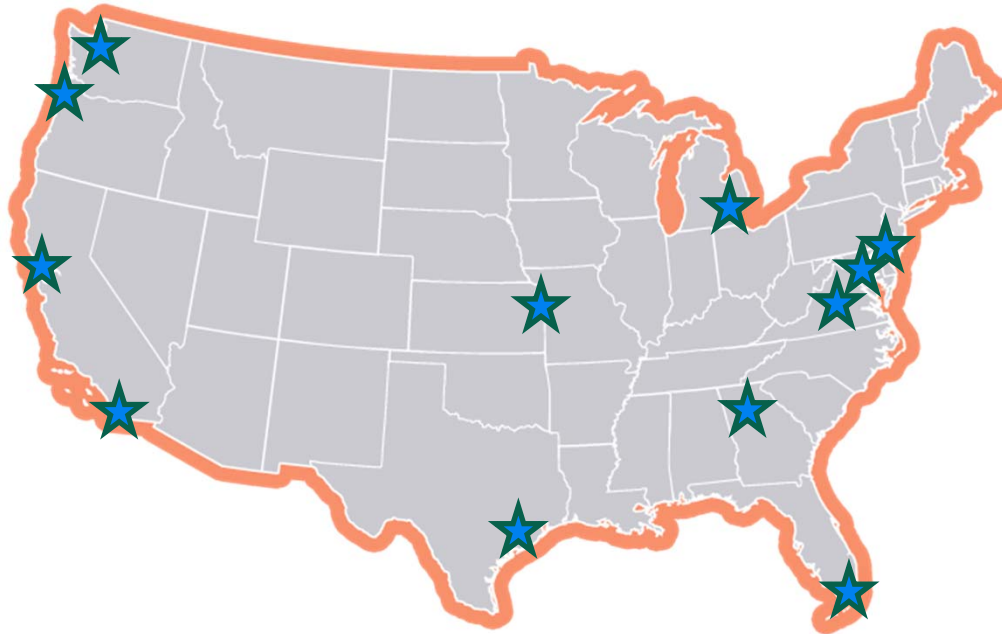
EPA Green Power Partners



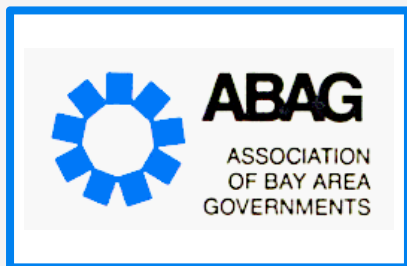
Region	Number of Partners	Green Power (kWh)	Top Green Power Partners
Southern Florida (Miami)	3	17,490,486	Intercontinental Hotel
Southern Michigan (Detroit)	5	18,187,280	General Dynamics Land Systems Central Office
San Diego Region	6	50,342,606	City of San Diego
Atlanta Region	8	121,267,914	Coca-Cola
Houston-Galveston Area	10	653,099,719	City of Houston
Los Angeles County	15	74,328,741	Los Angeles World Airports
Puget Sound (Seattle)	19	2,090,093,464	Microsoft
Denver Region	25	228,268,191	White Waves Food Company
North Central Texas (Dallas)	30	652,943,953	City of Dallas, Dallas-Fort Worth Airport
Portland Metro	34	191,016,670	Port of Portland, City of Portland
Delaware Valley (Philadelphia)	38	862,964,426	TD Bank, U Penn
Chicago Metro	42	1,186,652,530	Metro Pier and Exposition Auth, Chicago Public Schools
San Francisco Bay Area	80	5,491,057,765	Intel, Google, Apple, Cisco
National Capital Region	103	3,389,656,517	Federal Agencies, District of Columbia



Regional Best Practices



Transportation/Land Use Strategies



SF Bay Area

2035 Transportation Plan focuses on climate-friendly investments dominate spending, including a \$400 million for Transportation Climate Action Campaign



San Diego Region

Climate Action Strategy served as a basis for policies in the Regional Transportation Plan (RTP)'s Sustainable Communities Strategy



Portland Metro

Scenarios Project - Developing comprehensive strategy that's considering community design, pricing (pay as you drive), and more



Puget Sound

Transportation 2040 includes a 4-part GHG reduction strategy - land use, user fees, transportation choices, and technology



Resilient Regions

SOUTHEAST FLORIDA CLIMATE COMPACT AND PLAN

- 4-County Climate Compact for joint legislative policy and planning
- Climate Action Plan provides for a common sustainable communities & transportation planning framework
- Incorporate “Adaptation Action Areas” into local comprehensive plans and focus growth elsewhere
- Transportation infrastructure: focus investment on GHG reduction and resiliency projects



HOUSTON-GALVESTON FORESIGHT PANEL OF ENVIRONMENTAL EFFECTS

- Report identified 25 specific resiliency strategies that would address the goals of protecting human health, property and the natural environment. Emphasis placed on transportation efficiency and infrastructure.

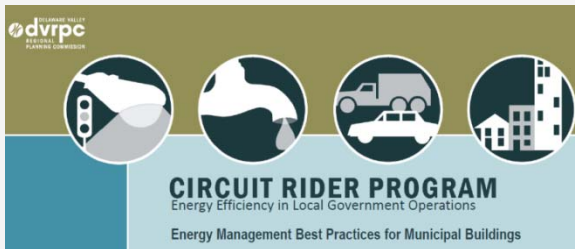


COGs in the Community



MID AMERICA GREEN IMPACT ZONE

- National model for place-based investment in a 150-square block area of Kansas City, Mo.
- Green projects: smart grid innovation park/project, 14K smart meters, 50 LEED certified affordable housing units
- Jobs and Training: 395 job training certifications and 151 job placements



DELAWARE VALLEY CIRCUIT RIDER FOR ENERGY EFFICIENCY IN GOVT OPS

- No-cost assistance to small-medium sized local governments to reduce energy costs in their municipal buildings, outdoor lighting, water/sewage treatment facilities, and vehicle fleets.
- Serves as a "one stop shop" for practical tools, relevant training, and direct technical assistance for reducing energy costs in municipal operations.



Sustainability Certifications



Atlanta Region

Unique Local Actions:

- Bicycle Friendly Community designation
- Walk Friendly Community designation



Detroit Region

Unique categories for local actions, such as:

- Economic Prosperity
- Resiliency
- Fiscal Sustainability
- Reliable, Quality Infrastructure



Go Green VA

Unique Local Actions:

- Climate protection resolution
- Establish energy manager or team
- Farm to School Programs



Sustainable MD

Unique Local Actions:

- Buy local campaign and preference policy
- Local business directory and roundtable
- Economic analysis of procurement practices



Next Steps



- Incorporate regional comparison and local survey results into Climate and Energy Progress Report.
- Use this climate and energy review information to help inform the upcoming FY2015 Regional Environmental Resources Workplan.
- Other ideas?



Thank you

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