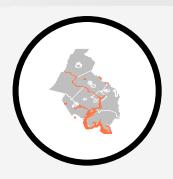
Regional Climate Action Review



CEEPC, May 28, 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



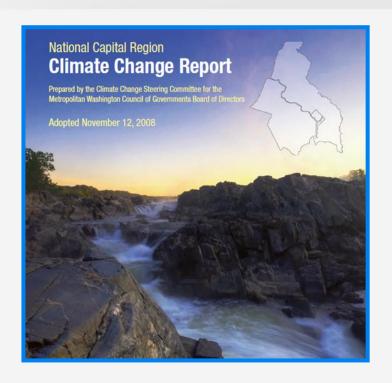
Best Practices

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





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 2^{nd} addition of a CEEPC Action Plan. Original plan timeframe was 2010-2012.





Local Jurisdiction Actions

Local Government	2013 Census Population Estimate ¹	Energy Improvement Plan - Govt Operations	Walk- Through Energy Audits	EPA Green Power Partner	EPA Green Power Community	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	646,449	V	11	11	11	11	11	11	V	· /	V	11
Suburban Maryland												
Charles County	152,864	11	1	NR	NR	11	V	-	-	ı	>	✓
Frederick County	241,409	NB.	NR	NR	NR.	11	-	NR	NR.	NR.	V	NR.
City of Frederick ¹	66,893	-	1	-	ı	1	V	ı	-	ı	\	-
Montgomery Counnty	1,016,677	V	√	NR	NR.	NR.	NB.	NR	-	-	11	NR.
City of Gaithersburg ²	65,690	-	11	11	-	-	N/A	N/A	-	-	11	-
City of Rockville ²	64,072	11	11	11	11	11	44	-	-	-	11	✓
City of Takoma Park ²	17,721	V	11	-	-	-	-	-	V	· ·	-	-
Prince George's County	890,081	11	11	N/A	N/A	A	44	11	V	-	11	11
City of Bowie ²	56,759	11	-	-	-	-	-	-	11	V	V	✓
City of College Park ¹	31,274	V	11	11	11	11	-	-	-	-	-	✓
City of Greenbelt ²	23,753	V	1	11	✓	-	N/A	N/A	N/A	N/A	1	-
Town of Bladensburg ²	9,433	NB.	NR	NR	NR	V	NR.	V	-	-	N/A	-
Northern Virginia												
Arlington County	224,906	V	11	44	-	11	44	-	V	· /	11	11
Fairfax County	1,130,924	11	11	√√ (not ourrent)	-	11	44	✓	44	4	11	11
Loudoun County	349,679	-	V	-	-	11	-	-	-	-	-	11
Prince William County	438,580	V	V	· /	-	11	N/A	N/A	-	-	-	✓
City of Alexandria	148,892	11	11	11	-	11	11	-	V	V	11	✓
City of Fairfax	23,973	V	11	-	-	-	-	-	V	-	1	✓
City of Falls Church	13,508	NR.	NR	11	11	NR.	V	NR	NR.	NR.	-	NR.
City of Manassas	41,705	V	11	-	-	N/A	44	11	-	-	1	-
City of Manassas Park	16,149	-	V	NR	NR	^	-	-	-	-	-	-
Percent Jurisdictions Implemented		27%	50%	41%	18%	45%	32%	14%	9%	0%	3:2%	23%
Percent Jurisdiction	ons In Progress	41%	23%	5%	5%	14%	14%	9%	27%	27%	41%	32%
Implemented -		68%	73%	45%	23%	59%	45%	23%	36%	27%	73%	55%
CEEPC A	cion Plan Goal	75%	75%	75%	25%	75%	75%	50%	40%	40%	75%	50%



¹ Annual Estimates of the Resident Population: 4/1/2010 - 7/ 1/2013 Source: U.S. Census Bureau, Population Division



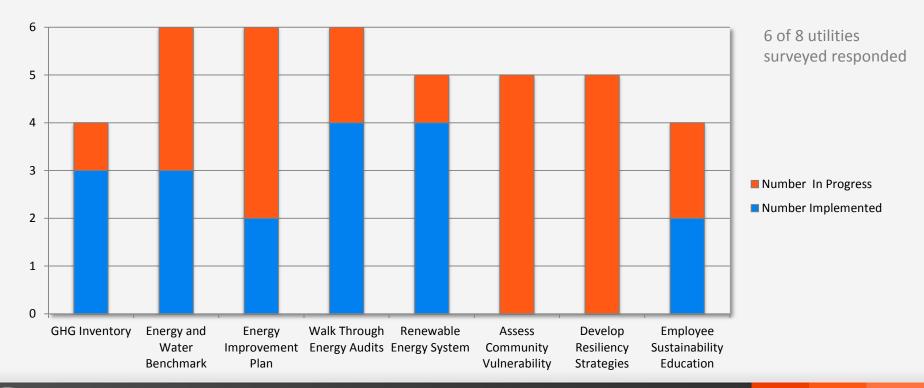


^{- -} Not Started

N/A = Not Applicable

NR - No Response

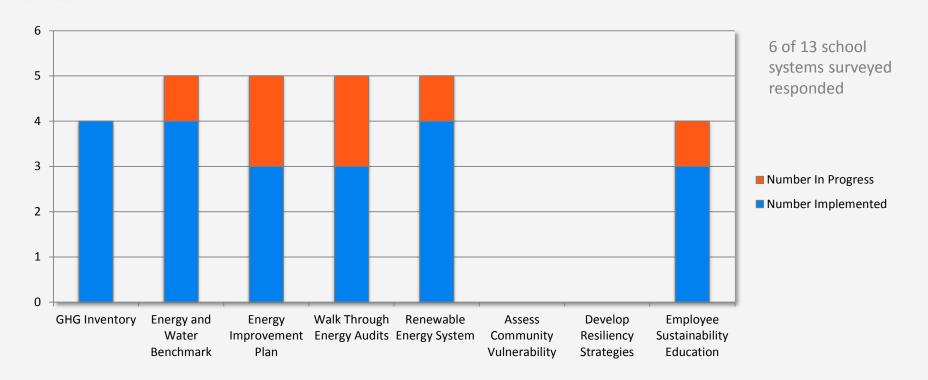
Water Utility Actions







School System Actions





Alternative Fuel Vehicles Survey

2,379
Light-Duty
AFVs

Including:

- •1,928 ethanol
- 244 electric
- -196 hybrid (not plug-in)
- -28 all battery
- -20 plug-in hybrid

607
Medium-Duty
AFVs

Including:

- •562 biodiesel
- •17 electric
 - -9 hybrid (not plug-in)
 - −8 all battery

546

Heavy-Duty AFVs

Including:

- •506 biodiesel
- •26 electric
 - −25 hybrid buses
 - −1 plug-in hybrid bus

Cooperative Interests

#1 – Electric vehicles and charging infrastructure

#2 – CNG vehicles, fuel, and stations

#3 – Biodiesel vehicles, fuel, and stations

(E-85 fuel cooperative reverse auction already underway)





Green Contracts Database



Recycling/Reuse

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



Facilities Mgmt.

- Cleaning
- Energy Management
- Lighting
- Furniture
- Appliances
- Carpet



Office Equip/Supplies

- Computers
- Printers/Copiers
- Recycled-Content Paper



Fleet

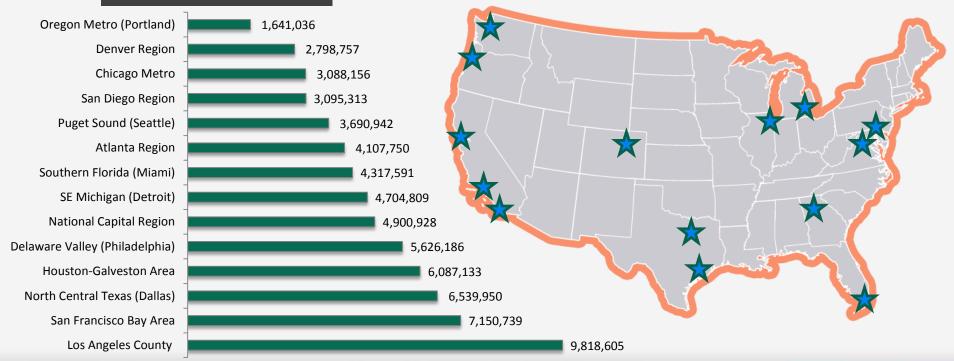
- Hybrid vehicles
- Fuel Efficient Vehicles
- Green Car Washing Services





Regional Comparison

2010 Census Population







NCR Rankings and Stats

1st 1560

Total # of LEED
Certified Buildings

4th

74

of LEED Platinum Certified Projects (tied for 4th) 3rd

896

Total # of ENERGY STAR Rated Buildings **1**st

103

of EPA Green Power Partners

2nd

686

of LEED Certified Homes

1st

13

of LEED Projects Certified for Neighborhood Development **1**st)

>203mil

FT² of ENERGY STAR Rated Floor Space 2nd

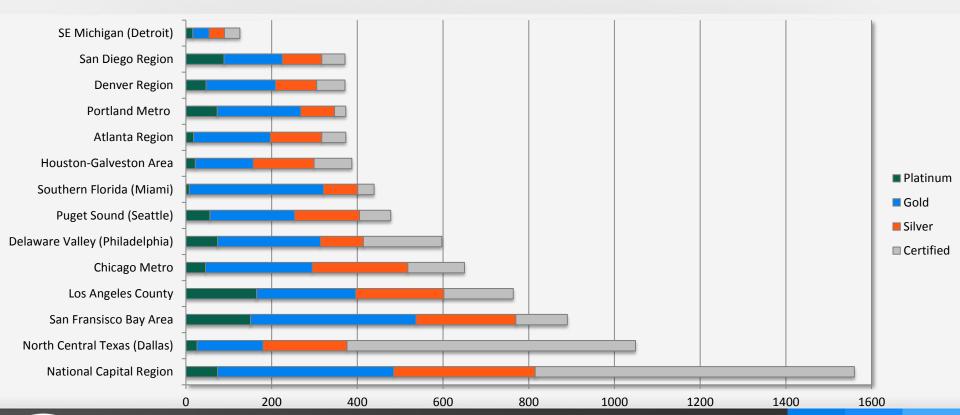
>3.3bil

Green Power (kWh) by EPA Green Power Partners





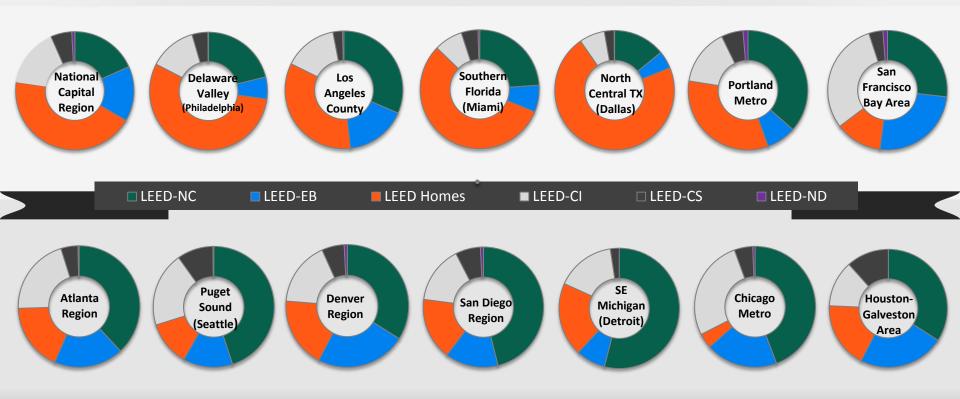
LEED Certification Levels







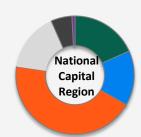
LEED Rating System





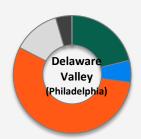


Green Home Certifications



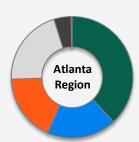
Main LEED for Homes Developments:

- Mosaic Townhomes in Fairfax
- Chancellors Row in DC
- Capital Quarter in DC
- Old Town Commons in Alexandria
- James Bland in Alexandria



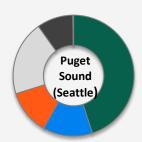
Main LEED for Homes Developments:

- Kendal Retirement Community
 Affordable Housing Redevelopments:
- West Philadelphia Real Estate
- Sheridan Street Housing
- Norris Apartments
- Temple N. 16 St and Temple II



<u>EarthCraft</u> Certification is more prevalent than LEED for Homes

- EarthCraft was established in 1999 with Greater Atlanta Home Builder Ass.
- > 25,000 certified homes
- Hundreds of EarthCraft builders, home renovators, real estate professionals



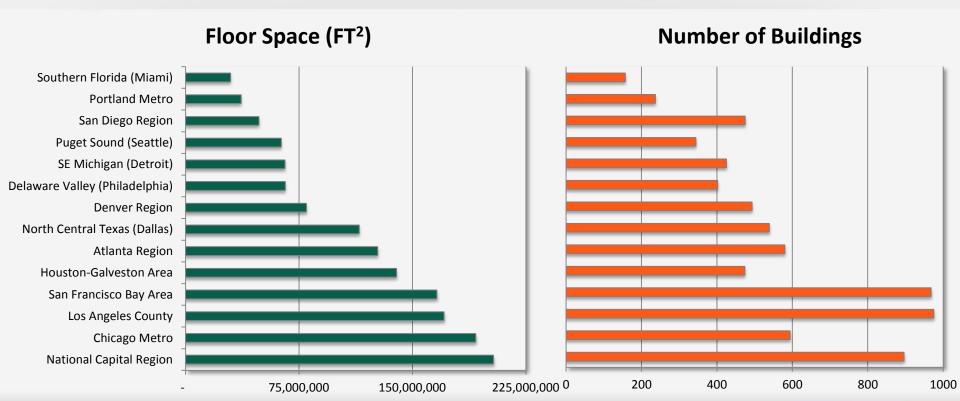
<u>Built Green</u> Certified Homes is more prevalent than LEED for Homes

- Built Green was established in 1999 with the Master Builders Association of King and Snohomish Counties
- > 15,000 certified homes
- 300 Built Green builders and remodelers





ENERGY STAR Rated 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 climatefriendly investments dominate spending, including a \$400 million for Transportation Climate Action Campaign.

LA Region

Transportation Plan supports a \$35 million zero emission truck freeway demonstration and initial deployment project and green construction techniques that reduce GHGs.

San Diego Region

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

Sacramento Area

Transportation Plan calls for development of regional climate action plan, construction energy conservation plan, transportation pricing policy, and alternative fuel local govt toolkit.





Transportation/Land Use Strategies



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.



SE Florida

Climate Action Plan provides common sustainable communities and transportation planning framework.





Resilient Regions

CA COLLABORATION OF REGIONAL CLIMATE ADAPTATION NETWORKS

- Convened 4 regional climate adaptation networks in California and identified priorities for regional climate resiliency planning including actions such as:
 - Work with stakeholders to create regional resiliency vision
 - Identify and map responsibilities parties for adaptation action
 - Develop local government policy templates for resiliency action
- Example initiatives within those regional networks include:
 - Sea Level Rise Strategy for San Diego Bay
 - San Francisco Bay Area Climate Resiliency County Snapshots
 - **Resilient Sacramento**

HOUSTON-GALVESTON FORESIGHT PANEL OF ENVIRONMENTAL EFFECTS

Report identified 25 specific resiliency strategies that would address the goals of protecting human health, property (including infrastructure) and the natural environment. Strategies also address transportation efficiency and urban heat.









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









Detroit Region

Unique categories for local actions, such as:

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

Atlanta Region

Unique Local Actions:

- Bicycle Friendly Community designation
- Walk Friendly Community designation

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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