Utility Data Request

Summary and Comparison 2005, 2009, 2010

Energy Advisory Committee July 21, 2011

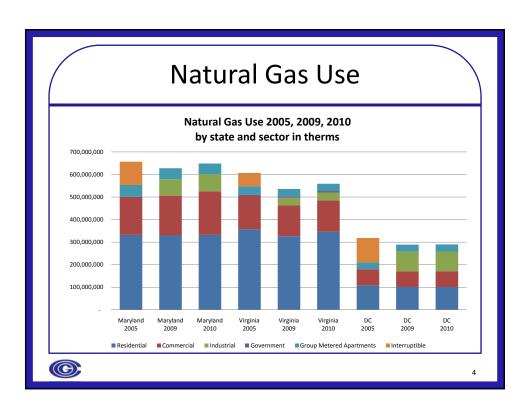


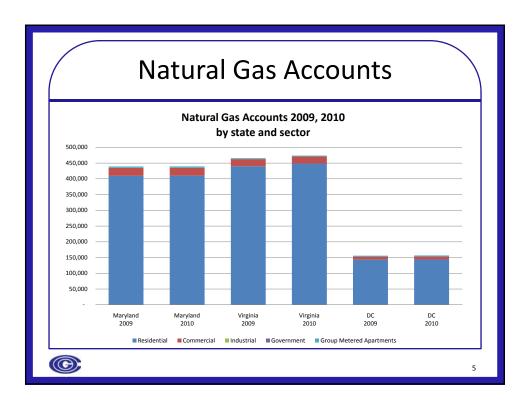
Outline

- Data Sources
 - Electricity
- Natural Gas
- Comparison and Trends
 - Renewables
 - Smart Grid
 - Pricing Options
 - Available Information



Data Sources- Utilities							
Utility	Territory	Data Provided					
Columbia	Fairfax, Loudoun, Prince William Counties;	Natural Gas Use (Residential, Commercial, Industrial,					
Gas	Cities of Manassas and Manassas Park	Government) by zip code in Mcf; Accounts					
		Electric and Natural Gas Use (Residential,					
Constellation	Montgomery and Prince George's	Commercial/Industrial)by jurisdiction and zip code in therm or					
Energy	Counties	kWh; Accounts; Pricing Options					
Dominion		Electric Use (Residential, Commercial, Government, Industrial) by					
Virginia	COG Virginia territory except Cities of	jurisdiction in kWh; Accounts; Renewables; Pricing Options;					
Power	Manassas and Manassas Park	Smart Meters					
		Electric Use (Residential, Commercial, Government, Industrial) in					
Manassas	City of Manassas	kWh; Accounts					
	Fairfax, Loudoun, and Prince William	Electric Use (Residential, Residential Government, Commercial,					
	Counties; Cities of Manassas and	Commercial Government) by jurisdiction and zip code in kWh;					
NOVEC	Manassas Park	Accounts					
		Electric Use (Residential, Commercial, Residential Government,					
	District of Columbia, Montgomery and	Commercial Government) by jurisdiction and zip code in kWh;					
Pepco	Prince George's Counties	Accounts; Renewables; Pricing Options; Smart Meters					
		Electric Use (Residential, Government, Commercial, Industrial,					
Potomac		Lighting) by jurisdiction in kWh; Account; Renewables; Pricing					
Edison*	Frederick and Montgomery Counties	Options; Smart Meters					
Washington		Natural Gas Use (Residential, Commercial, Industrial, Group-					
Gas	All COG territory except City of Manassas	Metered Apartments) by zip code in term; Accounts					

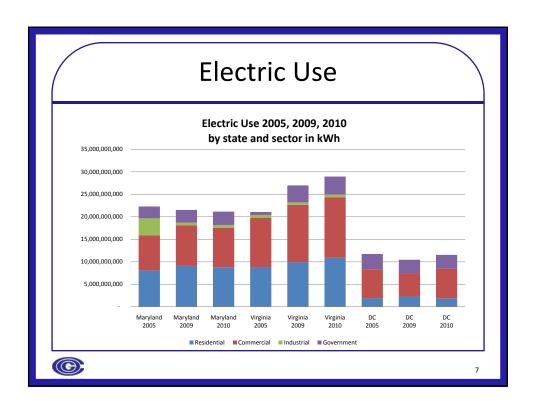


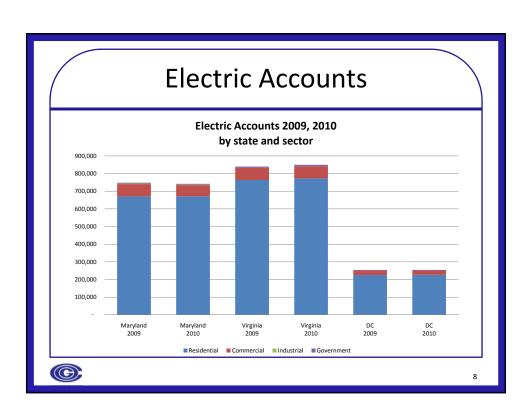


Natural Gas Comparison and Trends

- Large growth in Loudoun County in all sectors except Group Metered Apartments, which decreased- tremendous Commercial Growth
- Large growth in Fairfax City Residential, decrease in Commercial and Group Metered Apartments
- No large changes in account distributions from 2009 to 2010







Electric Comparison and Trends

- Large drop in Frederick County Industrial since 2005
- Large growth in Loudoun County in all sectors
- NOVEC territory in Fairfax, Loudoun Counties saw tremendous government growth, especially in accounts, however this is a small portion of the total for the state



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Grid Connected Systems

Grid Connections			2009		2010	
Jurisdiction	Utility	Туре	# Systems	Capacity (kW)	# Systems	Capacity (kW)
Alexandria	Dominion	Solar	28	96.515	33	117.810
Arlington	Dominion	Solar	40	137.987	46	156.887
Fairfax	Dominion	Solar	4	15.880	52	241.796
Falls Church	Dominion	Solar	7	25.944	11	54.199
Loudoun County	Dominion	Solar	-	=	48	251.669
Manassas	Dominion	Solar			3	14.110
Prince William County	Dominion	Solar	-	=	7	41.910
DC	Pepco	Solar	103	659.528	273	1,694.199
Montgomery County	Рерсо	Solar	186	2,141.870	397	3,918.896
Prince George's County	Рерсо	Solar	33	396.350	50	613.959
Frederick/Montgomery	Potomac Edison	Solar	50	369.250	137	2,671.700
Frederick/Montgomery	Potomac Edison	Wind	10	39.700	21	72.700
TOTAL SOLAR			451	3,843.324	1,057	9,777.135
TOTAL WIND			10	39.700	21	72.700
TOTAL GRID CONNECTED SYSTEMS			461	3,883.024	1,078	9,849.835



Residential Electric and Natural Gas Use per Capita

Year	Residential Electric and Natural Gas Use per Capita (kWhe)		
2005	9,880		
2009	9,710		
2010	9,720		

Residential Electric and Natural Gas Use per Capita represents residential electric use plus residential and group metered apartment natural gas use combined using a kWh equivalent factor for natural gas of 29.3.

2005 and 2009 populations from COG Planning Department 2005-2009 Economic Trends Report; 2010 population from COG tabulation of 2010 Census data

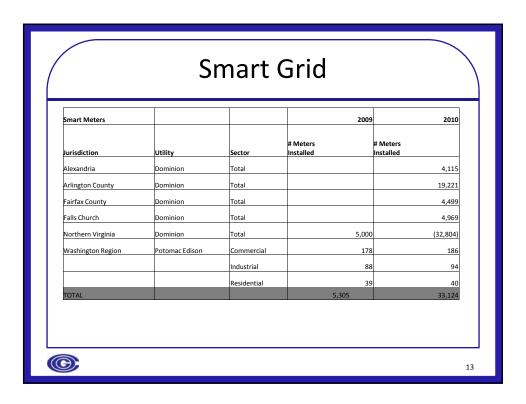


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Green Power Sales

Green Power Sales			2009	9 2010 # Accounts
Jurisdiction	Utility	Account Type	# Accounts	
DC	Pepco	Residential	140	
DC	Рерсо	Comm/Govt	3	
DC	Рерсо	Commercial	9	
Montgomery County	Рерсо	Residential	220	
Montgomery County	Рерсо	Comm/Govt	7	
Montgomery County	Pepco	Commercial	6	
Prince George's County	Pepco	Residential	24	
Prince George's County	Рерсо	Comm/Govt	2	
Prince George's County	Рерсо	Commercial	6	
Northern Virginia	Dominion*	Total	6,581	7,469
TOTAL			6,998	7,469





Pricing Options Time of Day/Utility Control Pricing 2009 2010 Utility Jurisdiction Sector # Accounts # Accounts Pepco Residential 174 DC Pepco Commercial Montgomery County Constellation Residential 5,857 6,426 Montgomery County Constellation Non-Residential 122 128 Montgomery County Pepco Residential 36,279 Рерсо 326 Montgomery County Commercial Prince George's County 26,578 29,945 Constellation Residential Prince George's County Constellation Non-Residential 1,194 1,186 Pepco 18,040 Prince George's County Residential Prince George's County Pepco Commercial 137 >12,700 13,294 Virginia Dominion Total Frederick/Montgomery Potomac Edison 10 10 Commercial Frederick/Montgomery Potomac Edison Industrial 13 6 Frederick/Montgomery Potomac Edison Government TOTAL 87,173 36,371 Residential TOTAL Non-Residential 1,977 1,330 TOTAL 37,701 14

Available Information- Sharepoint

- ncrportal.mwcog.org/sites/surveys/climate/default.aspx
 - This presentation
 - Single Jurisdiction data
- Summary of natural gas usage and accounts by jurisdiction and utility
 - Summary of electric usage and accounts organized by state
- Tables with all data for electric and natural gas use per capita, grid connections, smart grid, pricing options



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Questions/Comments?

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