

2009 Regional Energy Consumption- Preliminary Summary

Metropolitan Washington Council of Governments (COG) collaborated with regional utilities to establish a dataset of energy use in the region. The dataset contains information about energy consumption, green power, smart meters, and pricing incentives throughout the region. Data will be updated annually and reported to COG by the end of the first quarter. This data will be used to show progress towards regional goals established in the National Capital Region Climate Change Report and the Climate Action Plan.

Data from 2009 has been received from the following utilities: Allegheny Power, Constellation Energy, Dominion Virginia Power, NOVEC, Pepco, and Washington Gas. All 2009 data provided below represent a preliminary summary and analysis. There are still some uncertainties in the data that COG staff is working to clarify with utilities. Please note that data is estimated actual use.

Total Energy Use

COG conducted an inventory of 2005 regional energy consumption. The 2009 data is compared initially with this 2005 data below.

Electricity Consumption Data by State (2005 and 2009) (kWh)

	DC ⁺	MD	VA	Total
2005	11,735,691,057	24,763,295,642 [*]	22,907,359,051	56,978,685,448
2009	8,765,823,968	20,340,022,786	25,834,253,719	54,940,100,473
Percent Difference	-25.31%	-17.86%	+12.78%	-7.52%

^{*}2005 data from Constellation Energy not available, 2007 data from Constellation Energy is included.

⁺In 2001, DC consumed 10,755,655,313 kWh, which shows that the trend to increasing has reversed.

Natural Gas Consumption Data by State^{*} (2005 and 2009) (therms)

	DC	MD	VA	Total
2005⁺	318,372,431	677,240,901	555,260,051	1,555,873,383
2009	288,890,242	578,717,258 [~]	490,982,364	1,358,589,864
Percent Difference	-9.26%	-14.55%	-11.58%	-12.68%

^{*}Data provided by the following utilities: Constellation Energy and Washington Gas.

⁺2005 data does not include consumption from Constellation Energy.

[~]Washington Gas did not include Frederick County in its preliminary 2009 data; however, is included in the 2005 data.

Green Power

Utilities in the District of Columbia, Maryland, and Virginia have options for customers to purchase a portion or all of their energy use from renewable sources, such as solar and wind.

Green Power Purchases by State (2009) (number of accounts)

	DC	MD	Northern VA [*]	Total
Number of accounts	152	265	6,581	6,998

^{*}This includes accounts in all of Dominion's Northern Virginia territory.

Utilities reported on grid-connected solar and wind systems in the region.

Renewable Energy Installations by State (2009)

	DC	MD	Northern VA*	Total
Number of solar systems	151	457	79	667
Total solar kW	1,091.47	5,712.89	276.33	7,079.69
Number of wind systems		10		10
Total wind kW		31		31

*This includes accounts in all of Dominion’s Northern Virginia territory.

Pricing Incentives and Smart Meters

Some utilities offer time of use pricing or credits for customers to reduce peak demand. Time of use pricing establishes higher prices for electricity consumption at the times of day when there is greater demand. Some pricing incentives allow the utility to automatically turn on or off appliances such as air conditioning and water heaters during critical peak demand periods. Smart meters are being deployed across the region. Some utilities have pilot programs to test their use. Pepco reported that no smart meters had been installed in the District.

Pricing Incentive and Smart Meters by State (2009) (number of accounts)

	DC	MD	VA	Total
Pricing Incentives	1,373	88,557	12,700*	102,630
Smart Meters	0	305	5,500 ⁺	5,805

*This includes all of Dominion’s Northern Virginia territory.

⁺This includes all of Dominion’s Virginia territory.