



Metropolitan Washington Council of Governments

22 JURISDICTIONS 5+ MILLION PEOPLE 300 ELECTED OFFICIALS

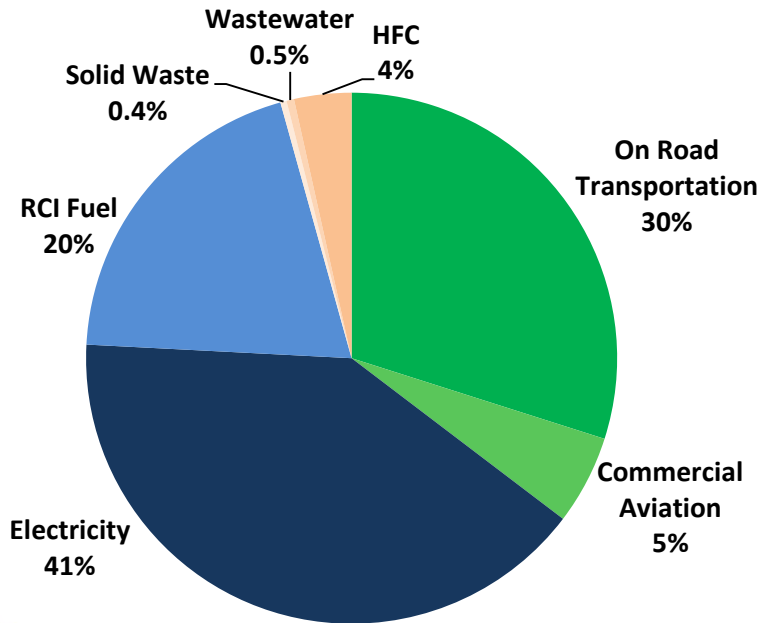
COG's
Multi-Sector Working Group
Energy/Built Environment Subgroup

Metropolitan Washington Council of Governments

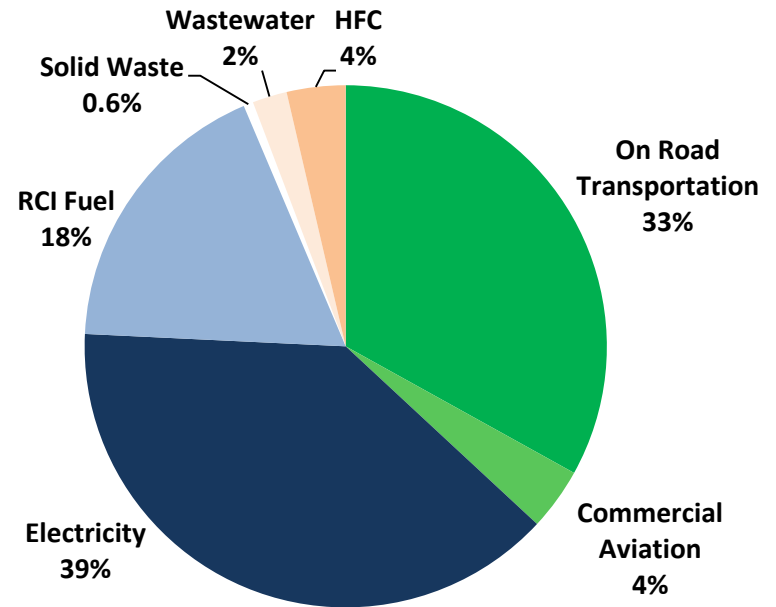
March 19, 2015

NCR Greenhouse Gas Inventory

2005 Revised GHG Inventory
National Capital Region
MWCOG
74.02 MMtCO₂e
16.02 MtCO₂e/capita



2012 Preliminary GHG Inventory
National Capital Region
MWCOG
69.88 MMtCO₂e
13.30 MtCO₂e/capita



Note: Due to differences in methodologies, 2005 and 2012 inventories are not directly comparable.

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NCR Greenhouse Gas Inventory

National Capital Region Greenhouse Gas Inventory - MWCOG				
Source	2005 Revised		2012 Preliminary	
	MMT CO ₂ e	Percent of Total	MMT CO ₂ e	Percent of Total
On Road Transportation	22.14	30%	23.10	33%
Commercial Airline	4.02	5%	2.69	4%
Electricity	29.96	40%	27.15	39%
RCI Fuel	14.70	20%	12.48	18%
Solid Waste	0.28	0.4%	0.42	0.6%
Wastewater Treatment	0.34	0.5%	1.50	2%
Hydrofluorocarbons (HFC)	2.58	3%	2.54	4%
Total (Gross Emissions)	74.02	100%	69.88	100%
Per Capita GHG Emissions	16.02		13.30	



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2005 & 2012 Greenhouse Gas Inventory Methodologies

Source	2005 General Methodology	2012 General Methodology
On Road Transportation	Moves 2010a; 2014 CLRP; TPB Travel Demand Model v 2.3.57	Moves 2010a; 2014 CLRP; TPB Travel Demand Model v 2.3.57
Commercial Aviation	Total US commercial aviation from EPA US GHG Inventory scaled to region based on Bureau of Transportation Statistics miles for all arriving and departing flights divided by two	Total US commercial aviation from EPA US GHG Inventory scaled to region based on Bureau of Transportation Statistics passenger miles for all arriving passengers scaled to the region by % trips originating in the region
Electrical	Emissions from regional power plants (EPA) plus emissions from electric imports (EPA regional emission factor)	Total electrical consumption times emission factors for eGrid zones covering Maryland/DC and Virginia

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NCR Greenhouse Gas Inventory

2005 & 2012 Greenhouse Gas Inventory Methodologies

Source	2005 General Methodology	2012 General Methodology
RCI Fuel	Total natural gas, distillate and residual fuel oil from US DOE, EIA, scaled to the region by population plus non-road emissions from EPA non-road emissions calculation tool	Total natural gas, distillate and residual fuel oil from US DOE, EIA, scaled to the region by households for residential and population for commercial and industrial plus non-road emissions from EPA tool
Solid Waste	US EPA waste GHG emission calculator	US EPA waste GHG emission calculator
Wastewater	EPA State Inventory Tool, IPCC formulas, default inputs, by population	ICLEI Wastewater emissions estimation tool based on treatment technology and population
HFC	Total US HFC emissions from EPA US GHG Inventory scaled to region by employment	Total US HFC emissions from EPA US GHG Inventory scaled to region by population

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