



Preliminary Greenhouse Gas Inventory Projections for the Metropolitan Washington Region

Climate Change Steering Committee

September 26, 2007



Background

- CCSC Task: Develop Regional Inventory
- GHG Emission Workgroup Formed
- Preliminary Inventory in September
 - Include Major Sources
 - CO2 Only
 - Combination of Top-down and Bottom-up Approaches
- Draft Baseline Inventory in November.
 - Add other GHGs: methane, N2O, Hydrofluorocarbons (HFCs)
 - Add Additional Sources: Substitutes to Ozone Depleting Substances (HFCs), wastewater, land use changes.

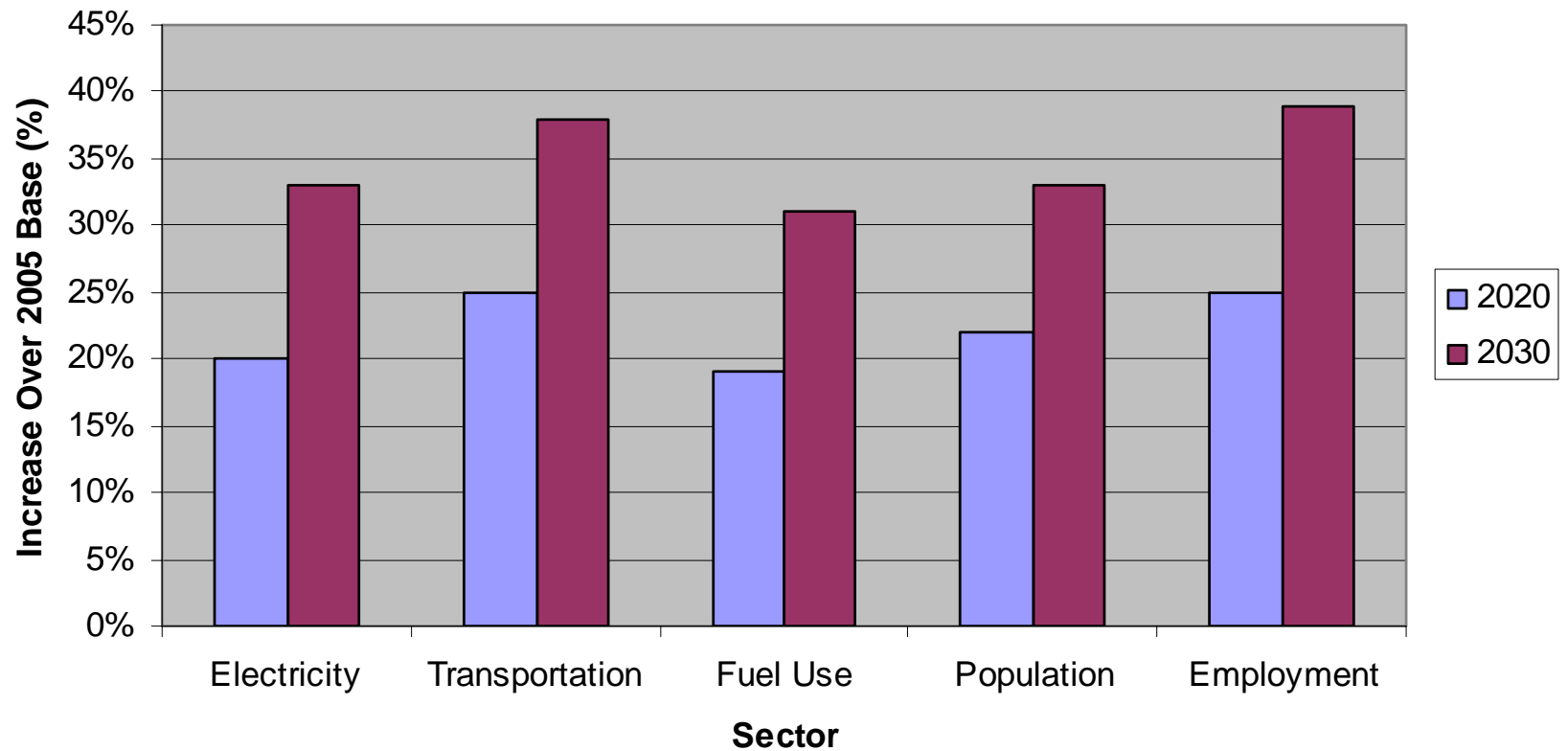
Inventory Projections

- Growth Rates
 - Expected regional growth in population, households, and employment is 33%, 35%, and 39% by 2030
- Projections 2005 to 2020/2030
- Emissions by Sector



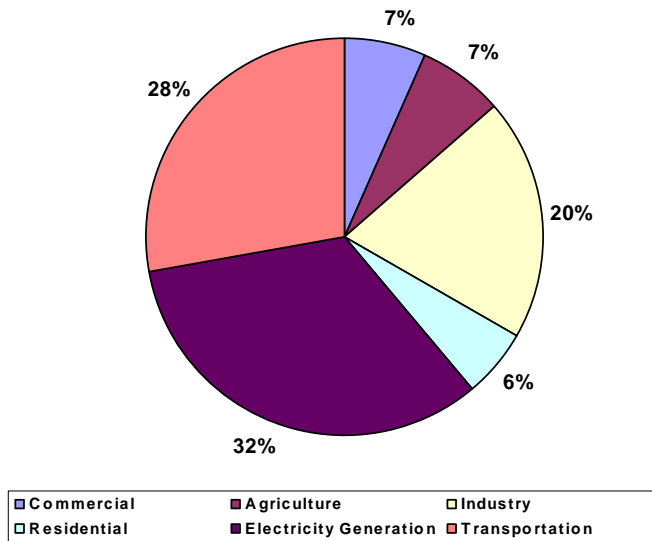
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Projected Growth Rates for Metropolitan Washington Region (Projection Years 2020&2030/Base Year 2005)



National (2004)

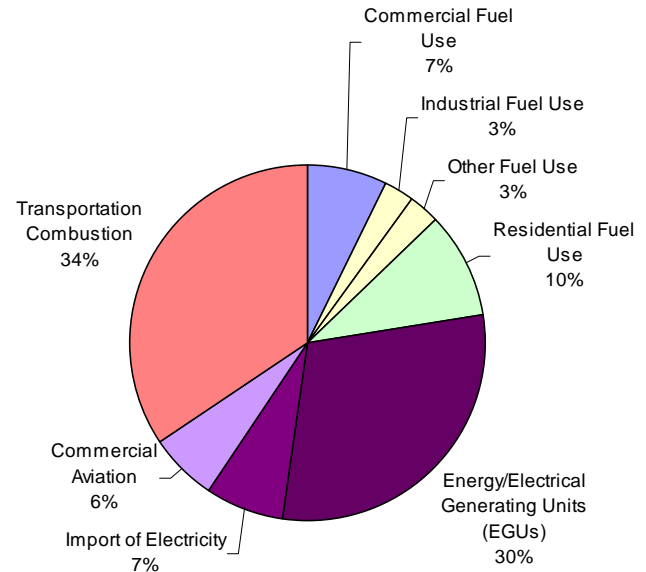
US Greenhouse Gas Emissions by Sector (Million Metric Tons CO₂ Equiv)



Source: EPA 2004 National GHG Inventory

Regional (2005)

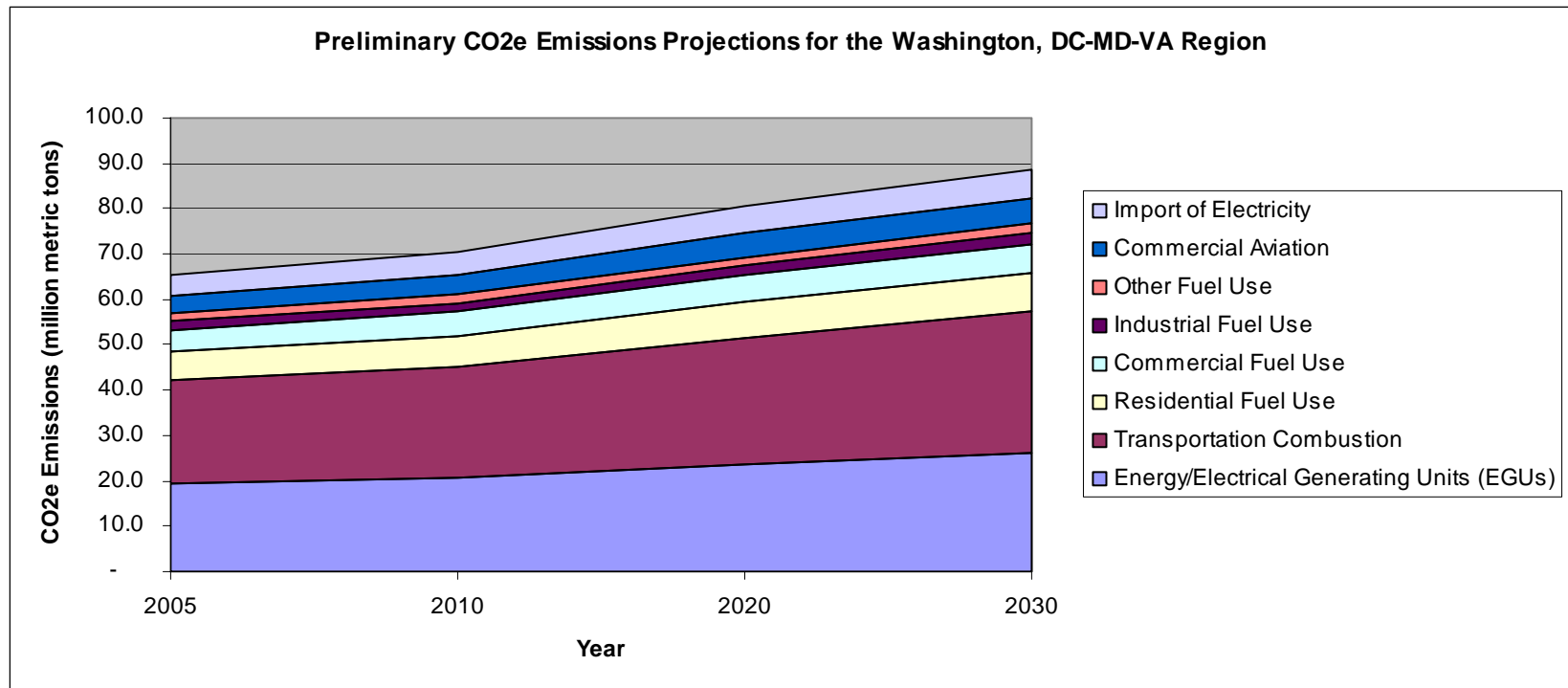
CO₂e Emissions by Sector for Washington, DC-MD-VA Region (2005)



Source: MWCOG estimates.

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PRELIMINARY CO2 Emissions Projections for the Washington, DC-MD-VA Region



Next Steps

- Refine estimates of electricity and fuels consumption – Energy Advisory Committee.
- Incorporate estimates of land use, land use change, and forestry, wastewater/solid waste, and high-GWP gases.
- Schedule:
 - Draft Inventory to CCSC on November 28, 2007
 - Final Inventory to CCSC on February 27, 2008