

CITY OF WILDWOOD GREENHOUSE GAS INVENTORY

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FOCUS ST. LOUIS ROADMAP

- 1. Commit to Action**
- 2. Assess the Situation**
- 3. Make Plans**
- 4. Implement**
- 5. Measure and Celebrate Success**

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UNDERSTANDING GREENHOUSE GASES

- Greenhouse gas emissions trap heat in our atmosphere
- 6 standard greenhouse gases are included in this inventory
- Each greenhouse gas's effect on our atmosphere varies
- Total GHG emissions are expressed in a common unit: metric ton of Carbon Dioxide equivalent (mt CO₂e)

1 METRIC TON OF CO₂e



SOURCES OF GHG EMISSIONS

■ Energy Use

- Combustion of coal to produce electricity
- Combustion of natural gas for heat or cooking

■ Transportation

- Combustion of gasoline
- Combustion of diesel

■ Waste

- Decomposition of solid waste in landfills

■ Wastewater

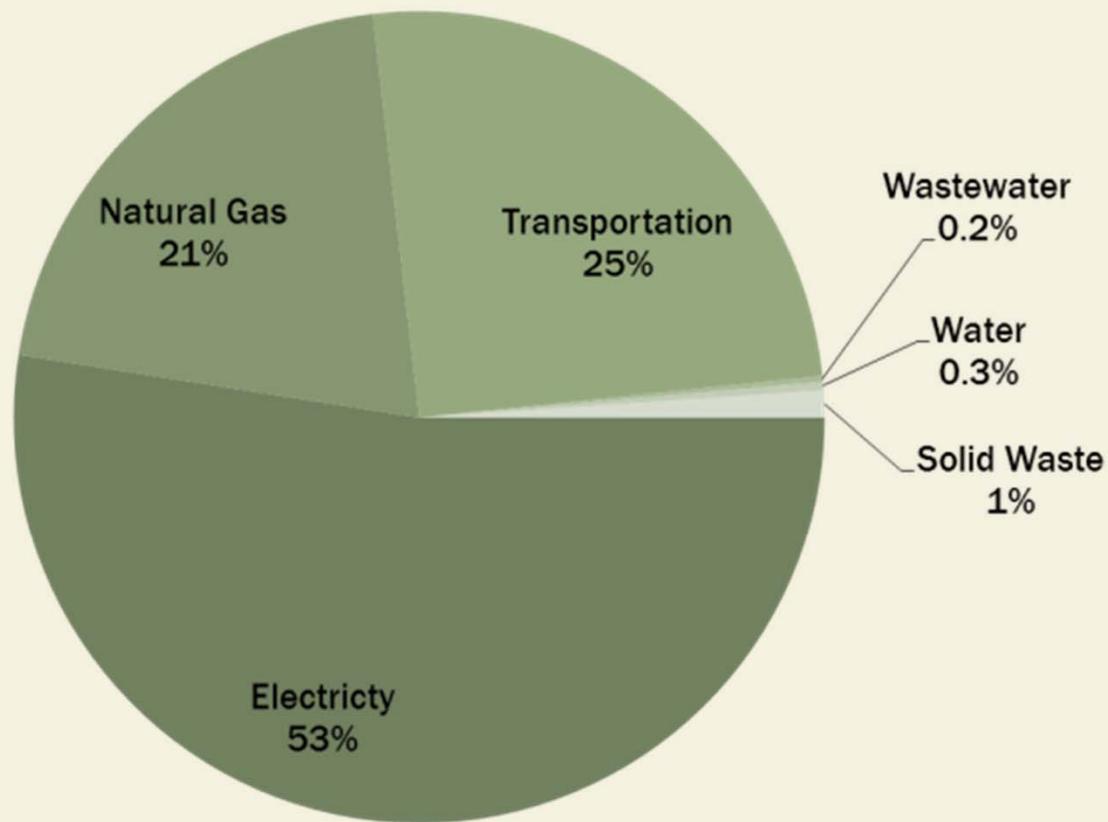
- Decomposition of wastewater in treatment plants or septic tanks

**COMMUNITY-WIDE
GREENHOUSE GAS
INVENTORY**

2010

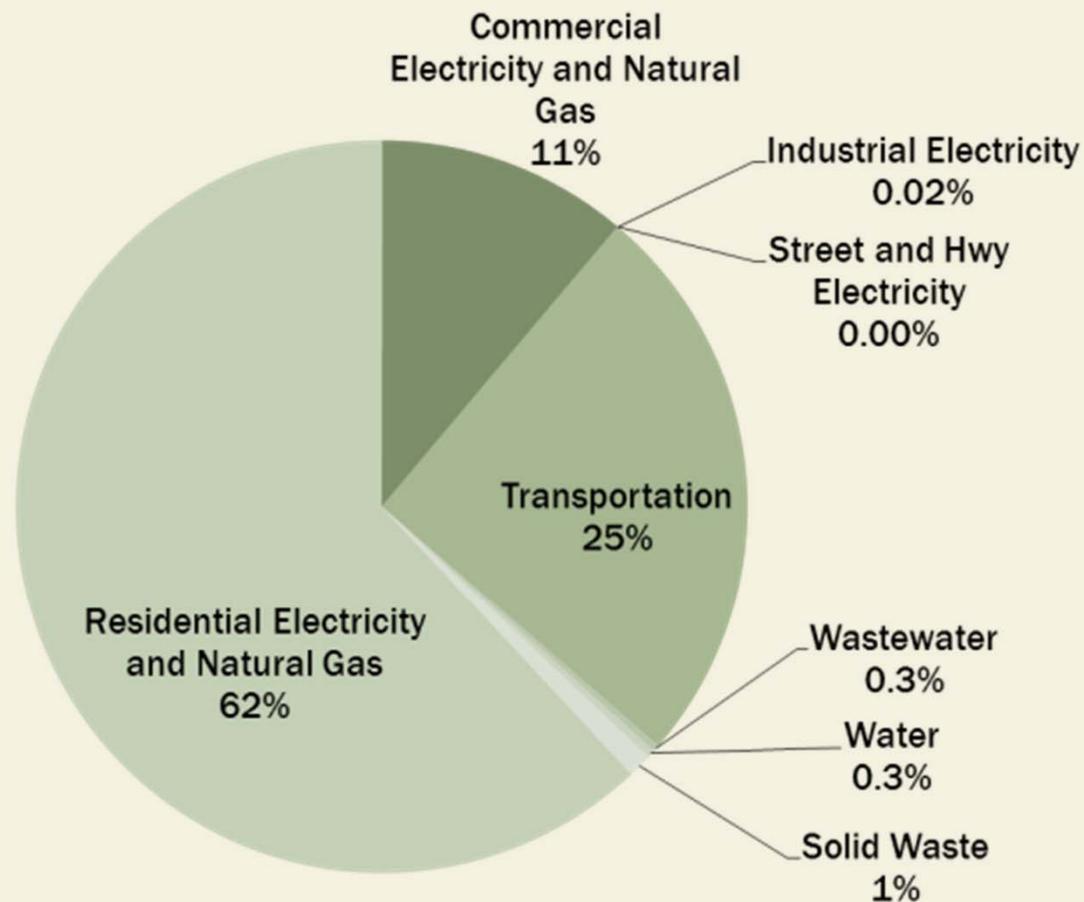
COMMUNITY-WIDE INVENTORY

City of Wildwood Community-Wide GHG Emissions, 2010



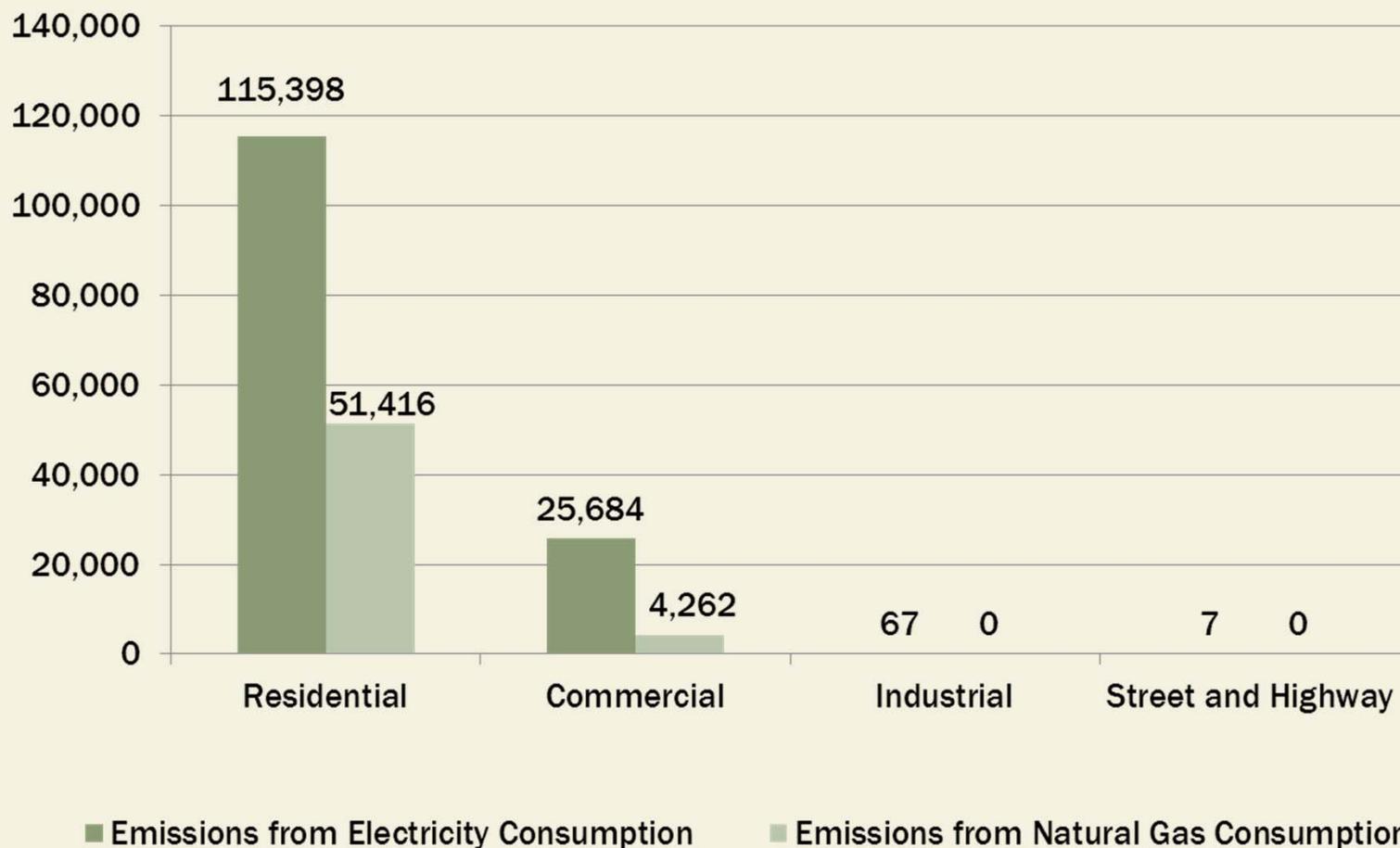
COMMUNITY-WIDE INVENTORY

City of Wildwood Community-Wide Emissions, 2010



COMMUNITY-WIDE INVENTORY

GHG Emissions from Electricity and Natural Gas Consumption



**LOCAL GOVERNMENT
GHG INVENTORY**

2010

LOCAL GOVERNMENT OPERATIONS INVENTORY

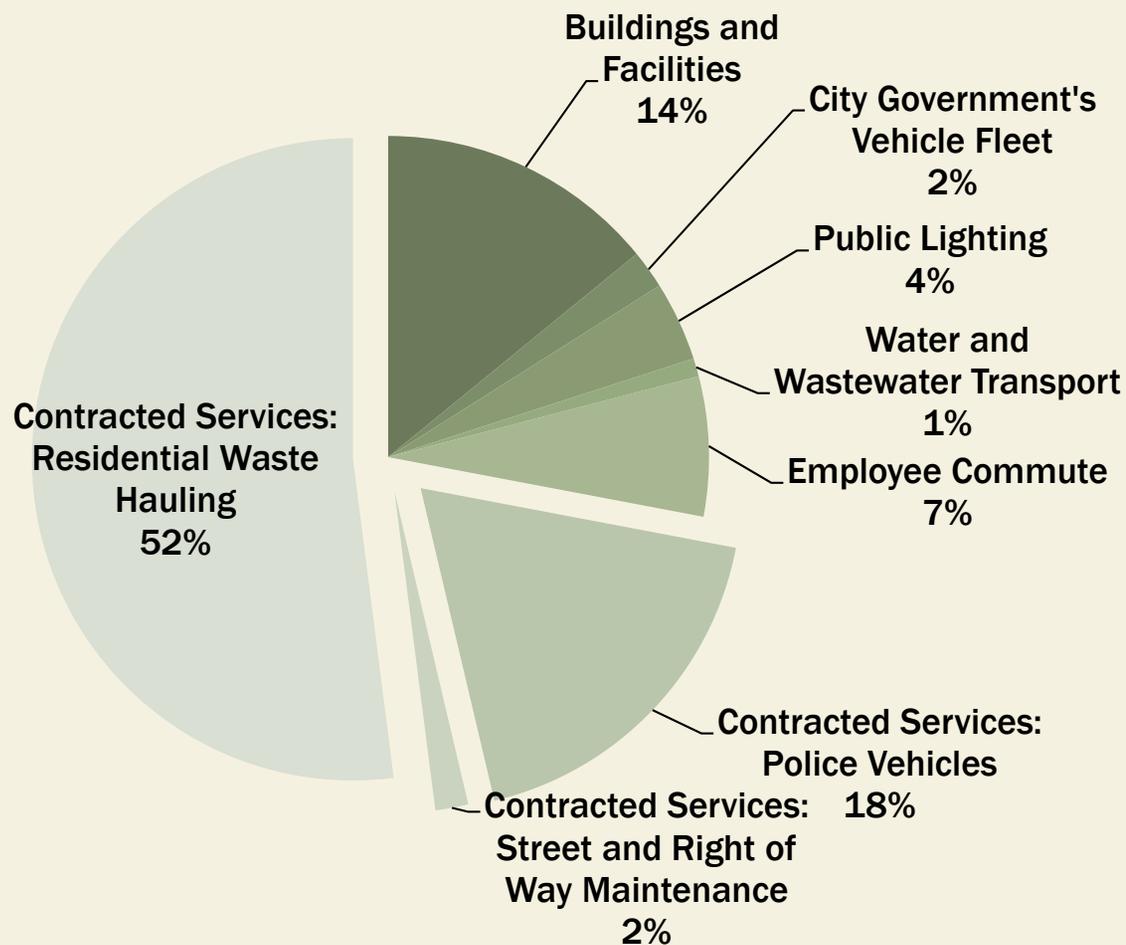
- Quantifies GHG Emissions associated with:
 - City Buildings and Facilities
 - Electricity
 - Natural Gas
 - Water and wastewater
 - City Vehicle Fleet
 - Gasoline
 - City-operated Street, Park, and Traffic Lights
 - Electricity
 - Information Items:
 - Contracted Services: Fuel Use
 - Employee Commute: Fuel Use

CONTRACTED SERVICES

- Contracted GHG emissions are outside of the City's direct operational control, but still of significant size
- Includes emissions from fuel consumed during:
 - Residential Waste Hauling
 - Street and Right-of-way Maintenance
 - Wildwood Police Precinct Operations

LOCAL GOVERNMENT INVENTORY

2010 Local Government Greenhouse Gas Emissions by Sector



MUNICIPAL COMPARISON

MUNICIPAL COMPARISON

- Municipalities with Greenhouse Gas Inventories
 - City of St. Louis
 - St. Louis County
 - Maplewood
 - Richmond Heights
 - Clayton
 - Creve Coeur



- **Municipalities with Greenhouse Gas Inventories**

- City of St. Louis

- St. Louis County

- Maplewood

- **Richmond Heights**

- **Clayton**

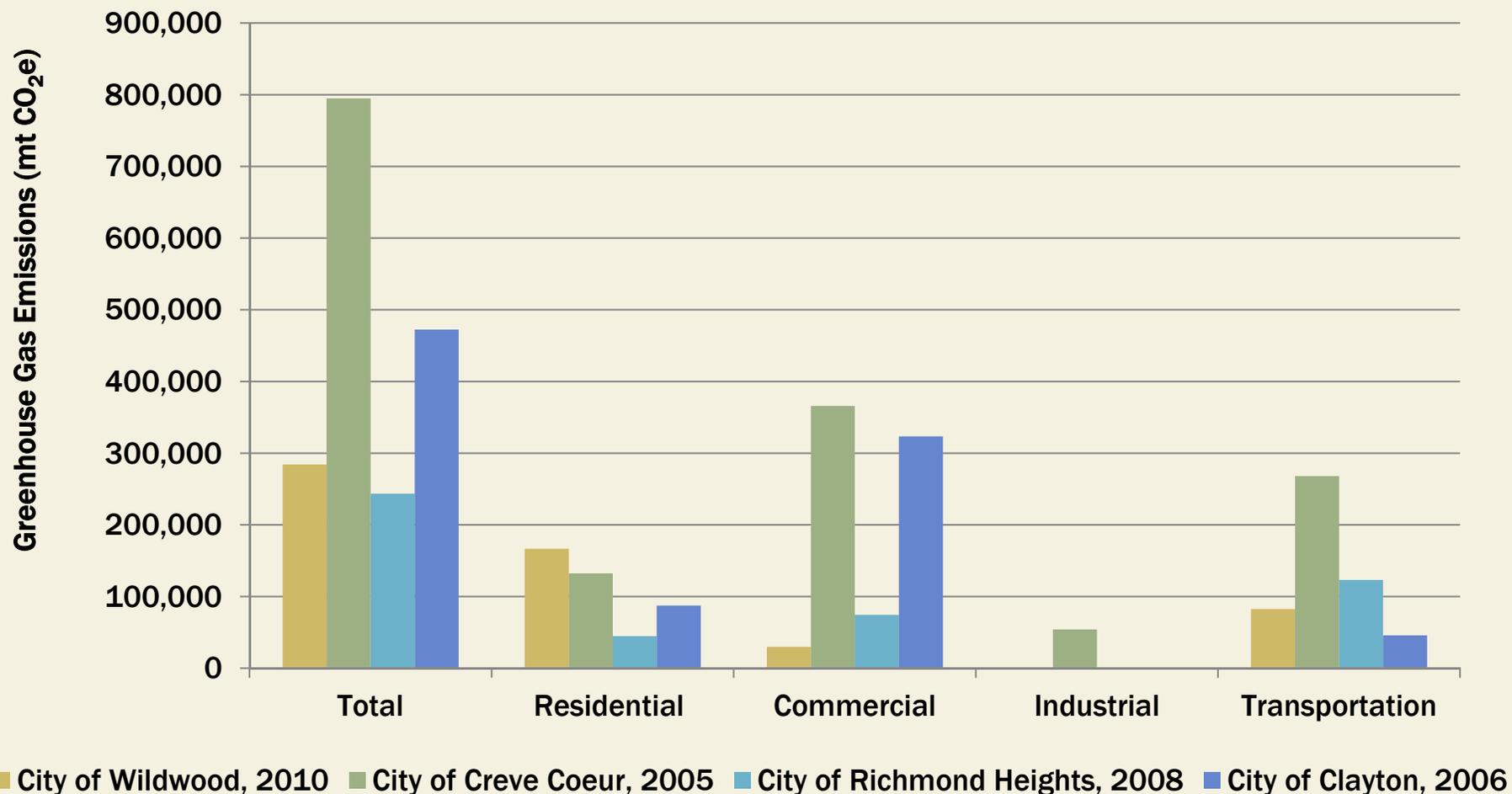
- **Creve Coeur**

MUNICIPAL COMPARISON

Municipality	Inventory Year	Population in Inventory Year	City Area (square miles)	Daytime Population Change (2005)
City of Wildwood	2010	35,517	68	-35.3%
Creve Coeur	2005	16,920	10.1	+23.5%
Richmond Heights	2008	8,600	2.3	+13.9%
Clayton	2006	15,935	2.5	+25.1%

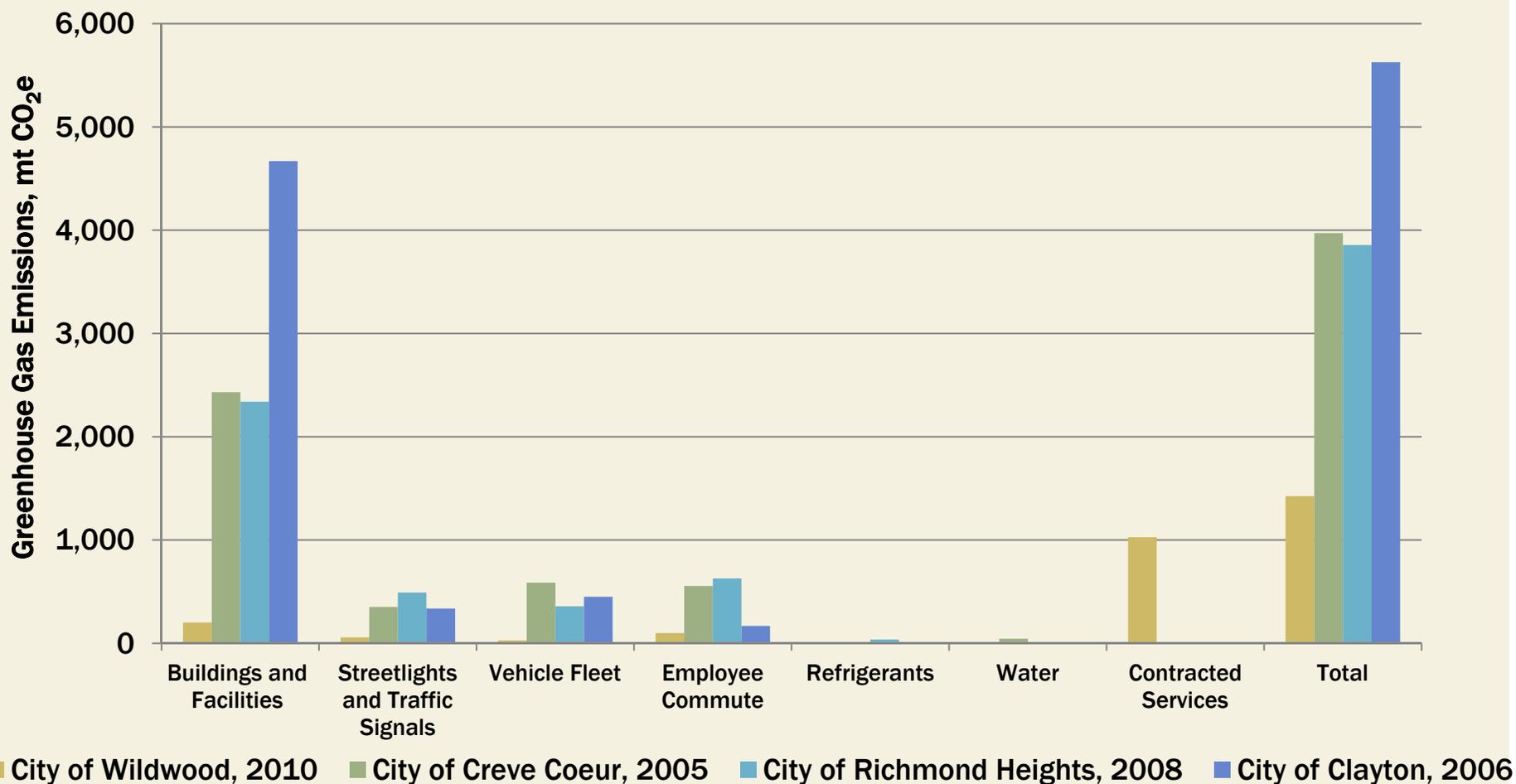
MUNICIPAL COMPARISON: COMMUNITY

Community-Wide GHG Emissions by Municipality



MUNICIPAL COMPARISON: LOCAL GOV

Local Government Operations Greenhouse Gas Emissions by Municipality



CONCLUSIONS

■ Community GHG Inventory

- Residential Emissions
 - Largest sector in Wildwood Community Inventory
 - Largest among compared municipalities
- Wildwood's community emissions total is significantly smaller than compared municipalities
 - Low commercial and industrial energy consumption
 - No interstates within City limits

■ Local Government

- Contracted services are the largest source of GHG emissions
- Building and Facility emissions do not reflect move

NEXT STEPS

- **2nd Phase of Internship**
 - **Step 3 of FOCUS framework: Make Plans**
 - **Pollution Reduction Plan will identify opportunities to conserve energy, save money, and reduce GHG emissions**

QUESTIONS?