

Item # 7.1



Hamilton

2012 Climate Change Actions Update

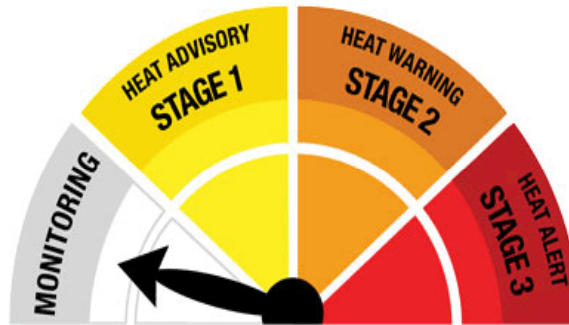
**Board of Health
October 21, 2011**

**Brian Montgomery
Air Quality & Climate Change Coordinator**

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Brian.Montgomery@hamilton.ca**

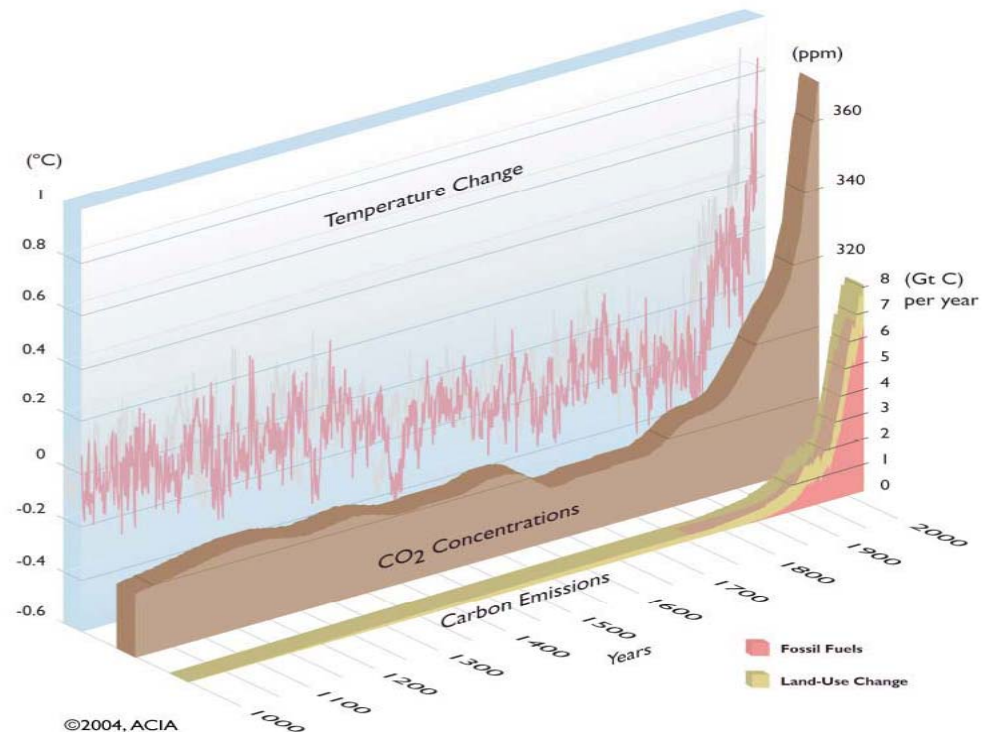
Climate Change

- Changes in the climate or long-term, average weather patterns.

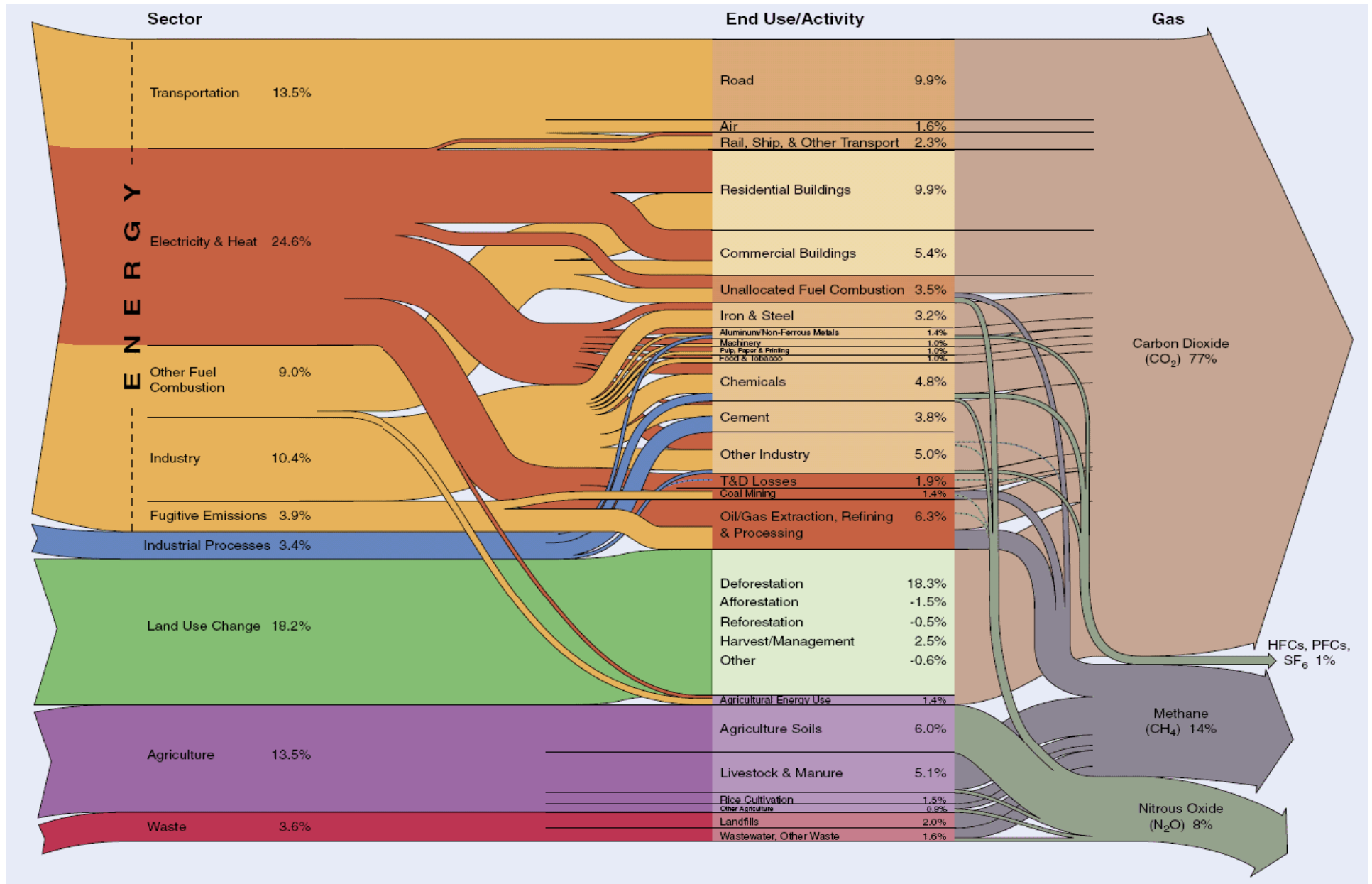


Key Greenhouse Gases (GHGs)

- Carbon Dioxide (CO_2)
- Methane (CH_4)
- Nitrous Oxide (N_2O)
- Hydrofluorocarbons (HFC's)
- Perfluorocarbons (PFC's)
- Sulfur Hexafluoride (SF_6)
- Nitrogen Trifluoride (NF_3)



Climate Change Linkages....



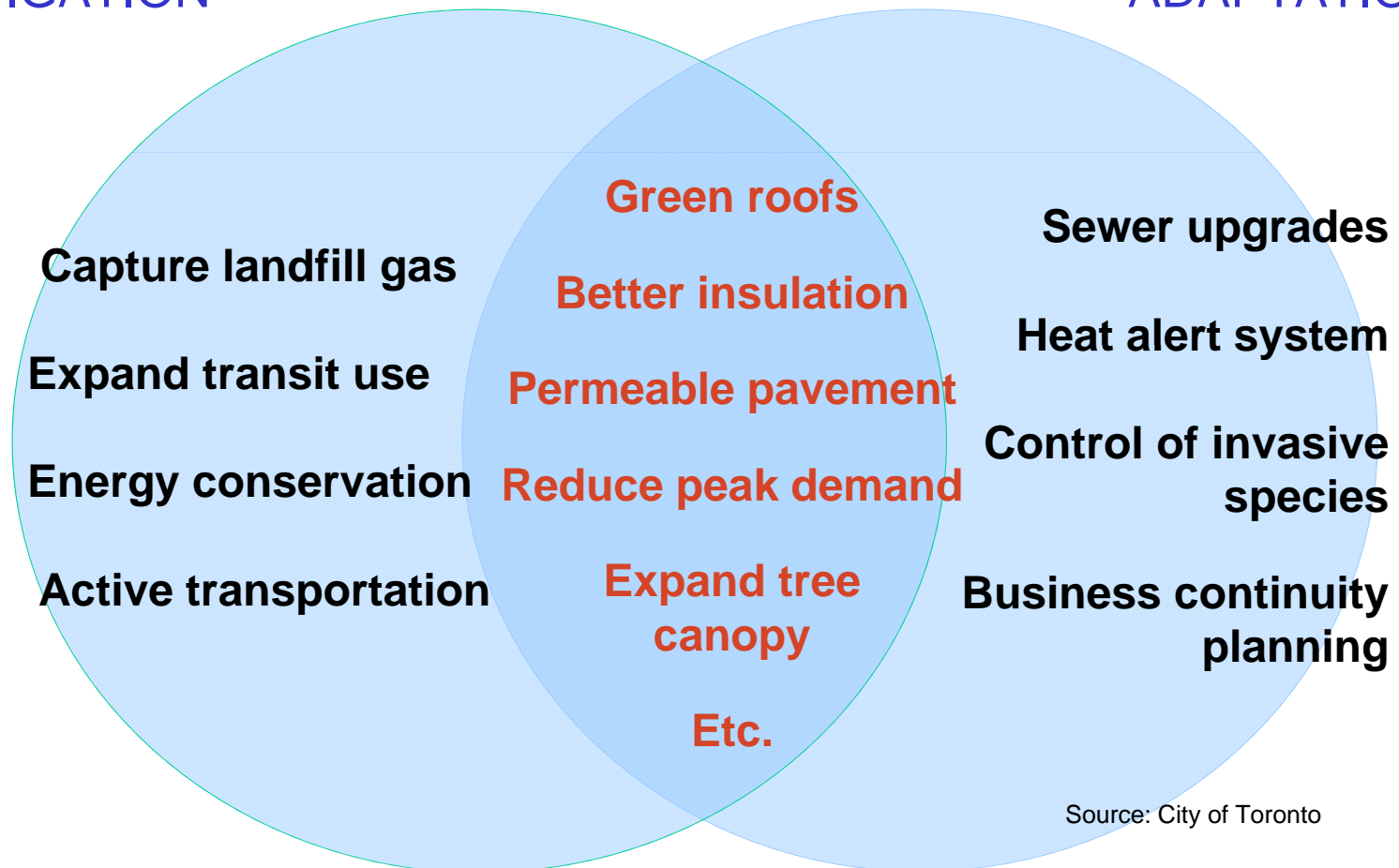
Municipalities & Climate Change

- **Cities and citizens are the drivers of action on addressing climate change.**
- **Climate change poses risks for cities and citizens.**
- **Successful cities recognize the synergy between economic growth and climate change is strongest at the local level.**

GHG Mitigation and Adaptation Together

MITIGATION

ADAPTATION



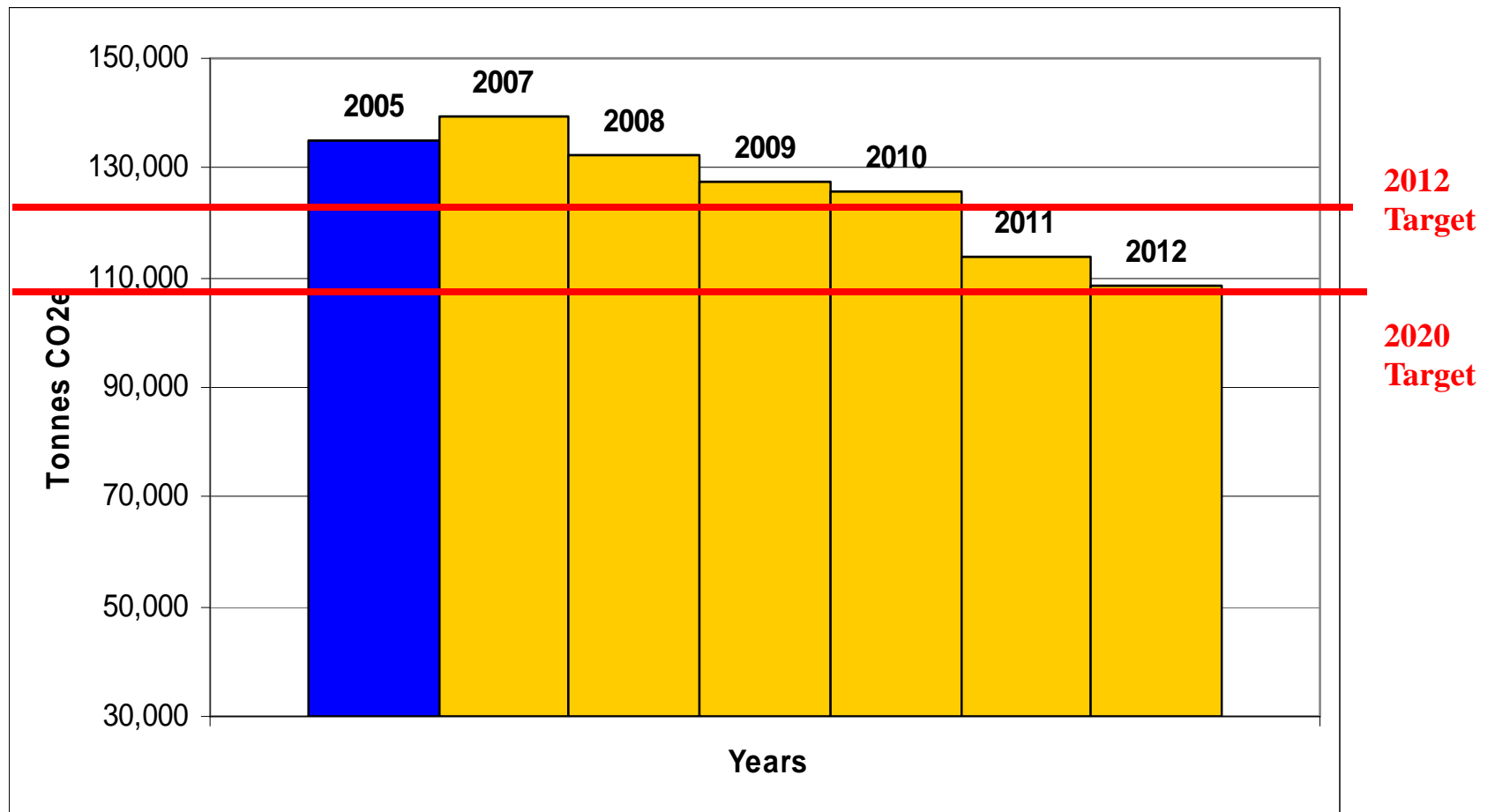
Source: City of Toronto

City of Hamilton – Reduction Achievements

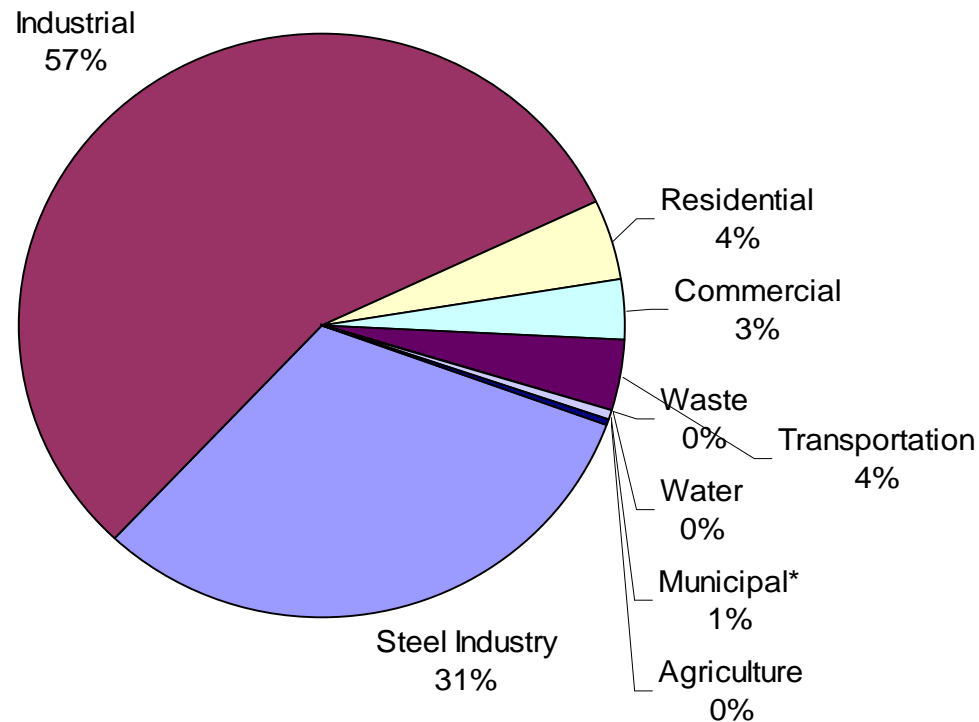
- 2008 – Corporate Climate Change Strategic Plan
- 2009 – GHG Inventory – Corporate and Community
- **Reduction Targets:** 10% by 2012 followed by 20% by 2020
- **Baseline:** City - 2005, Community - 2006

- In 2011, City achieved 2012 targets corporately
- In 2012, City has achieved 2020 targets corporately
- In 2011, Community has achieved 2012 and 2020 targets.

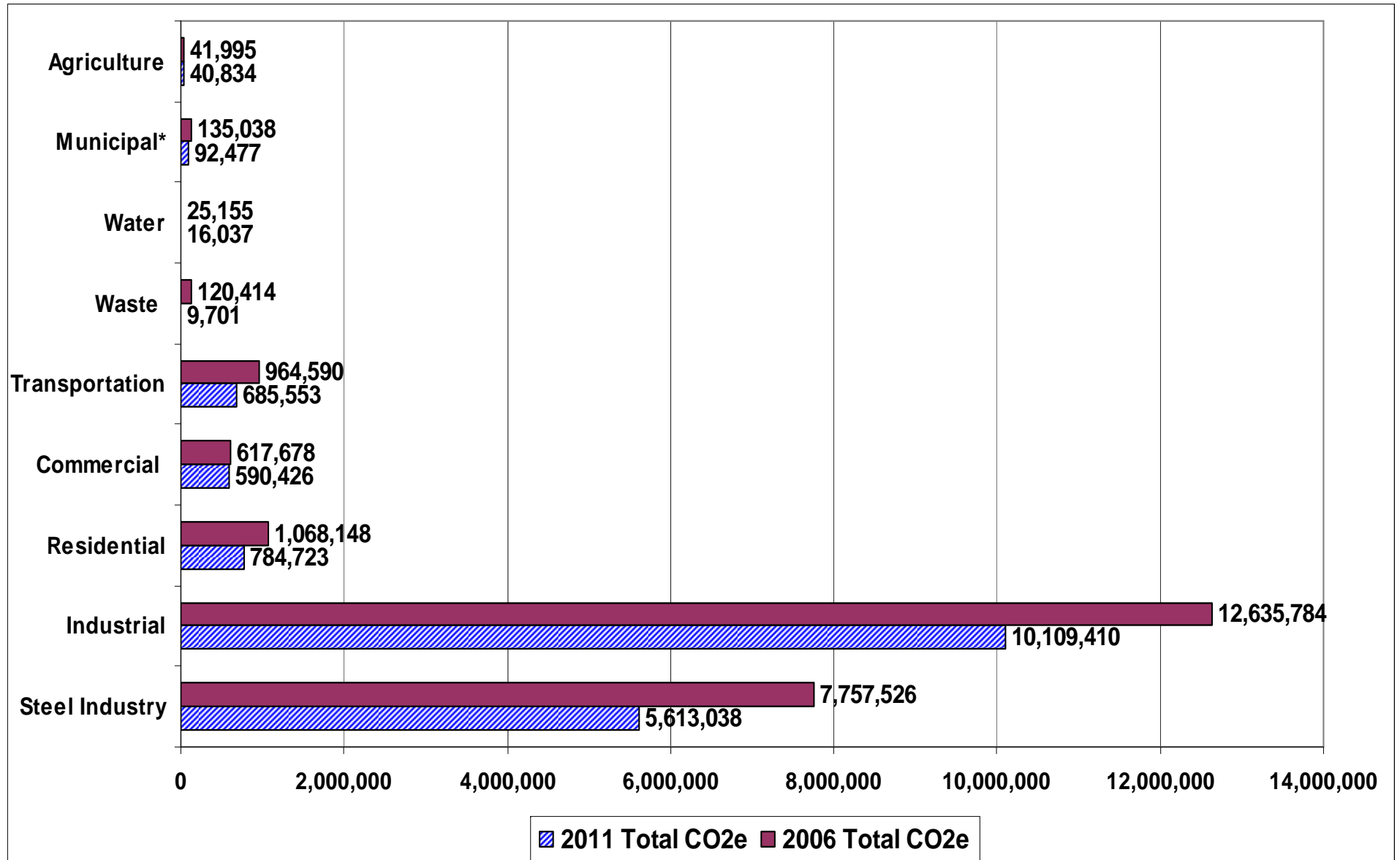
Corporate Emissions Yearly Trends: 2005 – 2012



Total Greenhouse Gas Emissions Corporate and Community (2011) = 17,835,696 M tonnes (23.1% reduction from 2006)



Community Emissions Changes 2006-2011



Recommendation 1: Emissions Targets

- Have been met
- Motion to review and increase targets
- Increase targets to further actions
- 80% reduction of emissions by 2050 (IPCC)
- Use same baseline years (2005, 2006)
- Has been recognized and adopted by others – Ontario, Canadian municipalities.
- Can develop short term targets and actions corporately and with community.

Recommendation 2: Corporate Lead

Recommend: Public Works

Why?

- Energy, Buildings, Lighting, Fleets, Employee Commuting.
- Corporate Infrastructure and Assets
- Control, Influence and Data

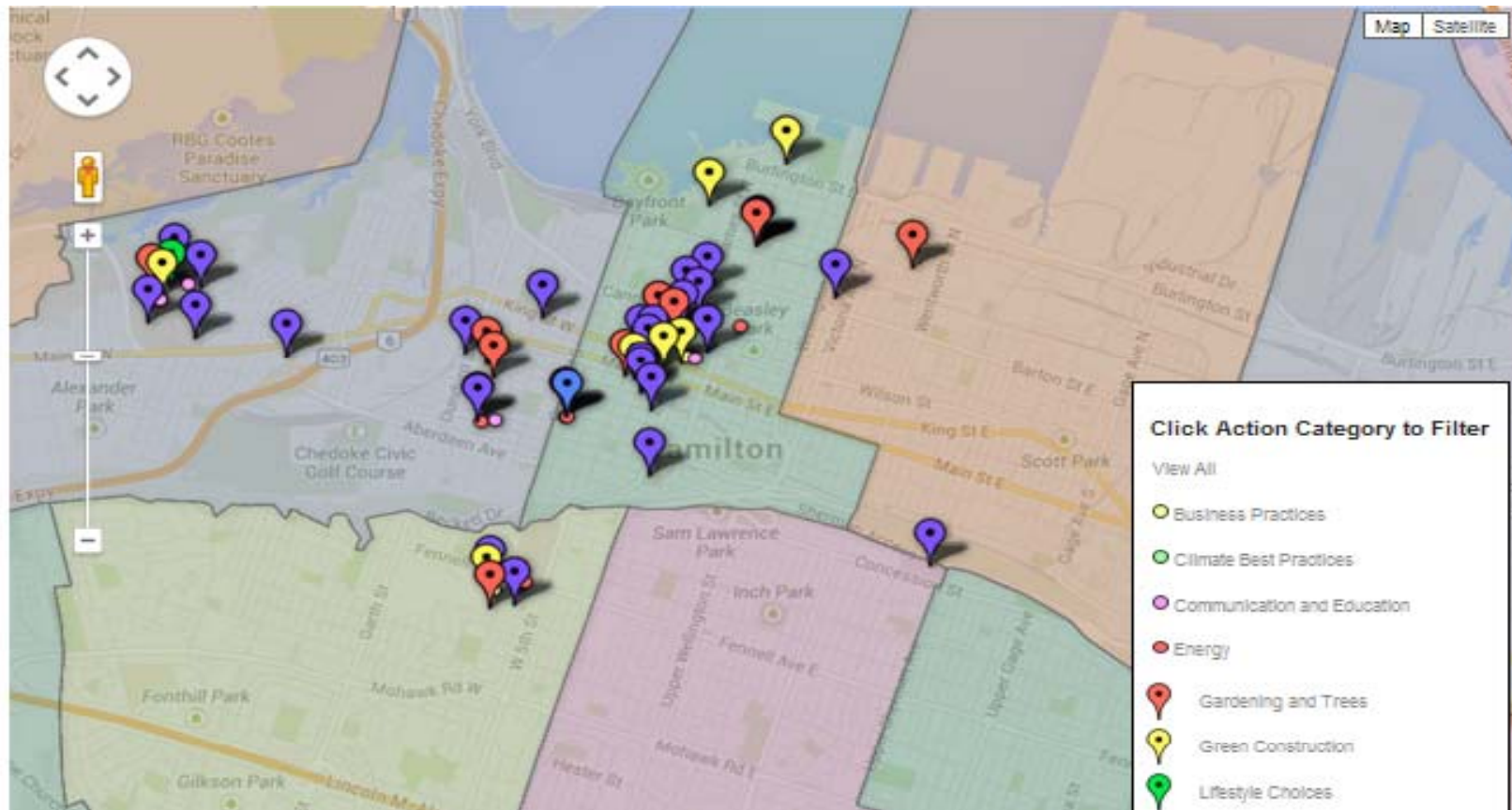
Recommendation 3: Community Lead

Recommend: Public Health Services

Why?

- Public Health Standards (2008) – Outreach and education on climate change
- Public Health Services Business Plan – Strategic Objective 1.6 = Community Climate Change Plan
- In line with Corporate Strategic Plan – Objective 6.1
- Built community relationships: Clean Air Hamilton, Climate Champions, Community Climate Charter, Hamilton Climate Map...

Hamilton Community Action Map



Put your actions on the Map!

<http://www.mapclimatechange.ca/maps.html>

Hamilton Community Action Map

- **Partnership with McMaster**
- **Map and Slideshow**
- **All Wards Represented, Encourage submissions**
- **Citizens and organizations submit photos and actions**
- **Seeing, Doing, Showing = Taking Action**



<http://www.mapclimatechange.ca/maps.html>

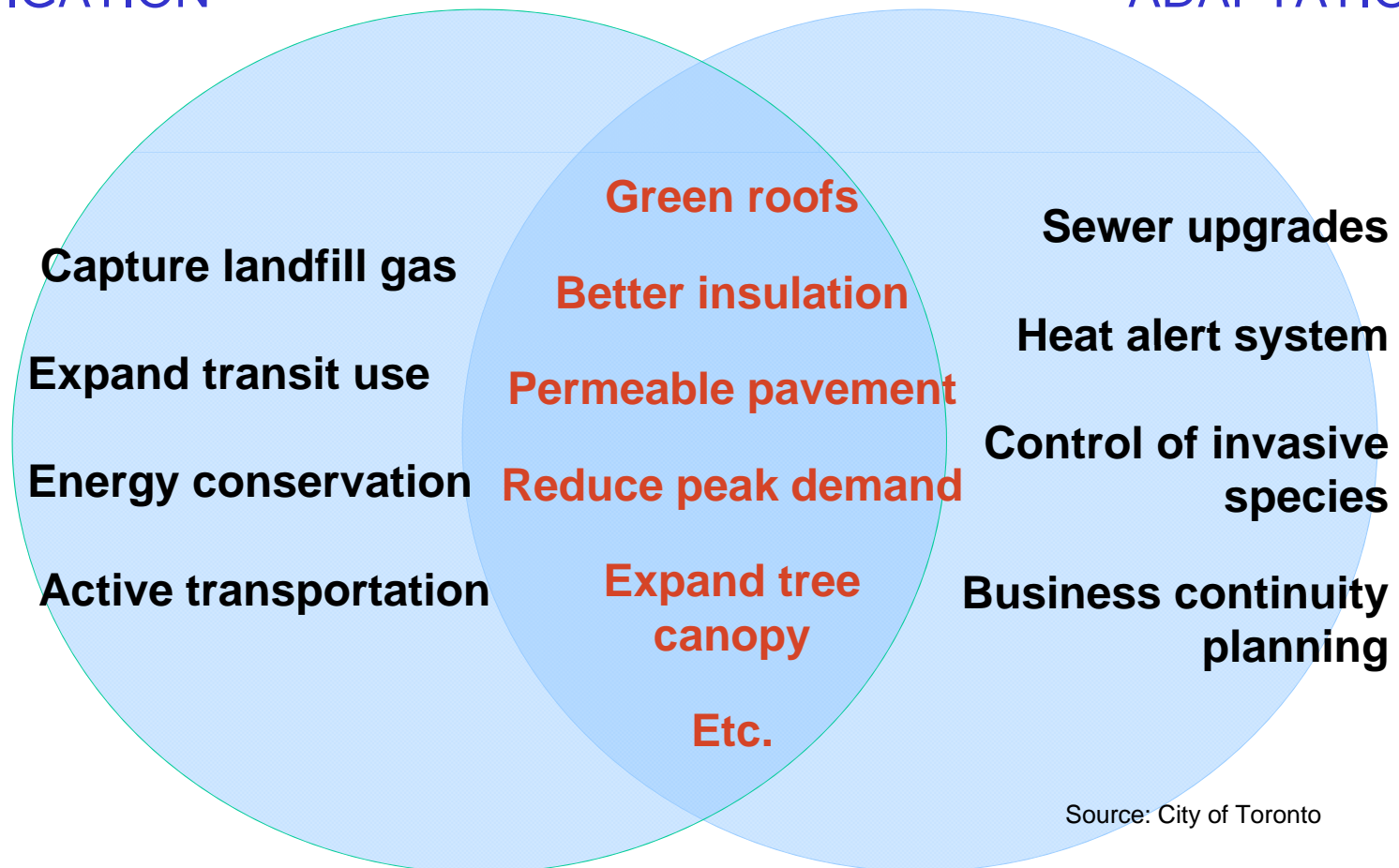
Hamilton Community Action Plan

- Hamilton has a reputation for action on climate change
- 2012 – 2015 Corporate Strategic Plan
 - Strategic Objective 6.1
 - Development of a Community-Based Climate Change Action Plan
- Matching funding available through FCM Green Municipal Fund
- Requires support from Council to apply
- Capital Budget request 2014 = \$140K
- **No Support = No Plan, No Resources**

GHG Mitigation and Adaptation Together

MITIGATION

ADAPTATION



Source: City of Toronto

Climate Adaptation

- Climate Change is underway and impacts are occurring.
- Even if emissions stop today, impacts and influence will still happen.
- Extreme weather – flooding, increased temperatures, increased precipitation, high winds...
- Infrastructure vulnerability
- Increased maintenance
- Insurance/reinsurance
- Preferred conditions for food, pests, illness
- Accessibility to water supply
- Safety risks
- **Impacts that cross Departments and Wards in Hamilton**

Recommendation 4: Adaptation

Recommend: City take action and across Departments

Why?

- 2004 – Vulnerability Study – GRIDS
- **Gap identified**
- Impacts services and community
- **Some programs:**
 - Heat Vulnerability Index, Flood Aware, SERG...
 - Emergency Response...
- **How will climate change influence these risks?**
- **How are we prepared?**
 - Planning, Health, Engineering, Financial, Emergency Response...
- **Needs examination, plan and response**