

Earth Day



Florida Keys National Conversation on
Climate Action

The CCP Milestone Process



GLEE's Mission

- GLEE's mission regarding climate change is to work together as a community to find solutions to protect and enhance our environment strong and maintain a vibrant community with economic opportunity for everyone and ensure the future of the Florida Keys

The Impacts of Climate Change on Florida

- **EARTH'S TEMPERATURE RISE** – The IPCC predicts increase from 2.5 to 10.4° F by 2100
- **SEA LEVEL RISE** –The IPCC estimates between four and 35 inches
- **FUTURE PRECIPITATION AND STORM CHANGES** – Tropical storms and hurricanes are likely to become more intense.

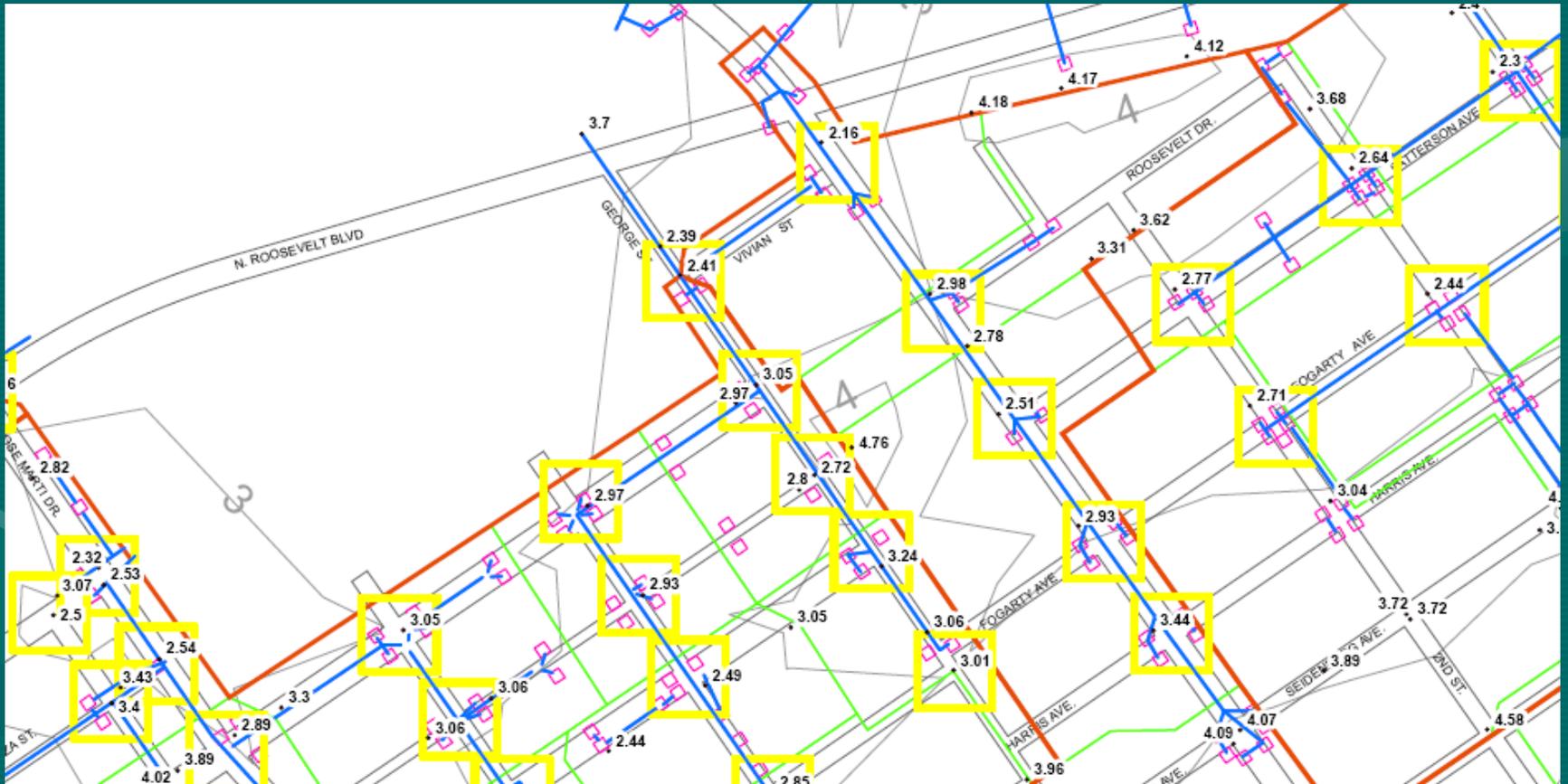
Florida Impacts

- **WATER RESOURCES** – Evaporation is likely to increase; lower river flow and lake levels; groundwater could also be reduced.
- **OCEANS** – High water temperatures lead to the bleaching of coral and ocean acidification.
- **COASTAL AREAS** – As sea level rises, Florida's wetlands and lowlands along the coast could be inundated; loss of land and structures, loss of wildlife habitat, accelerated coastal erosion, exacerbated flooding.

Impacts of Climate Change in the Keys

- Reduction of land mass, which is habitat, possible extinction of certain species animal and plant if it is quick.
- Rising tide waters on city streets
- Increasing hurricanes
- Heat
- Loss of reef

Key West Topography Map



Sea Levels w/o Rain in Key West



Jose Marti Drive



US 1 – Truman Ave



First Street



Fourth Street



Northside Drive



11th Street



Flagler Ave



Keys Local Governments

- Marathon
- Key Colony Beach
- Islamorada
- Layton
- Key West
- Monroe County – Dawn Townsend

Keys Agencies

- NOAA – Matt Strahan
- School District



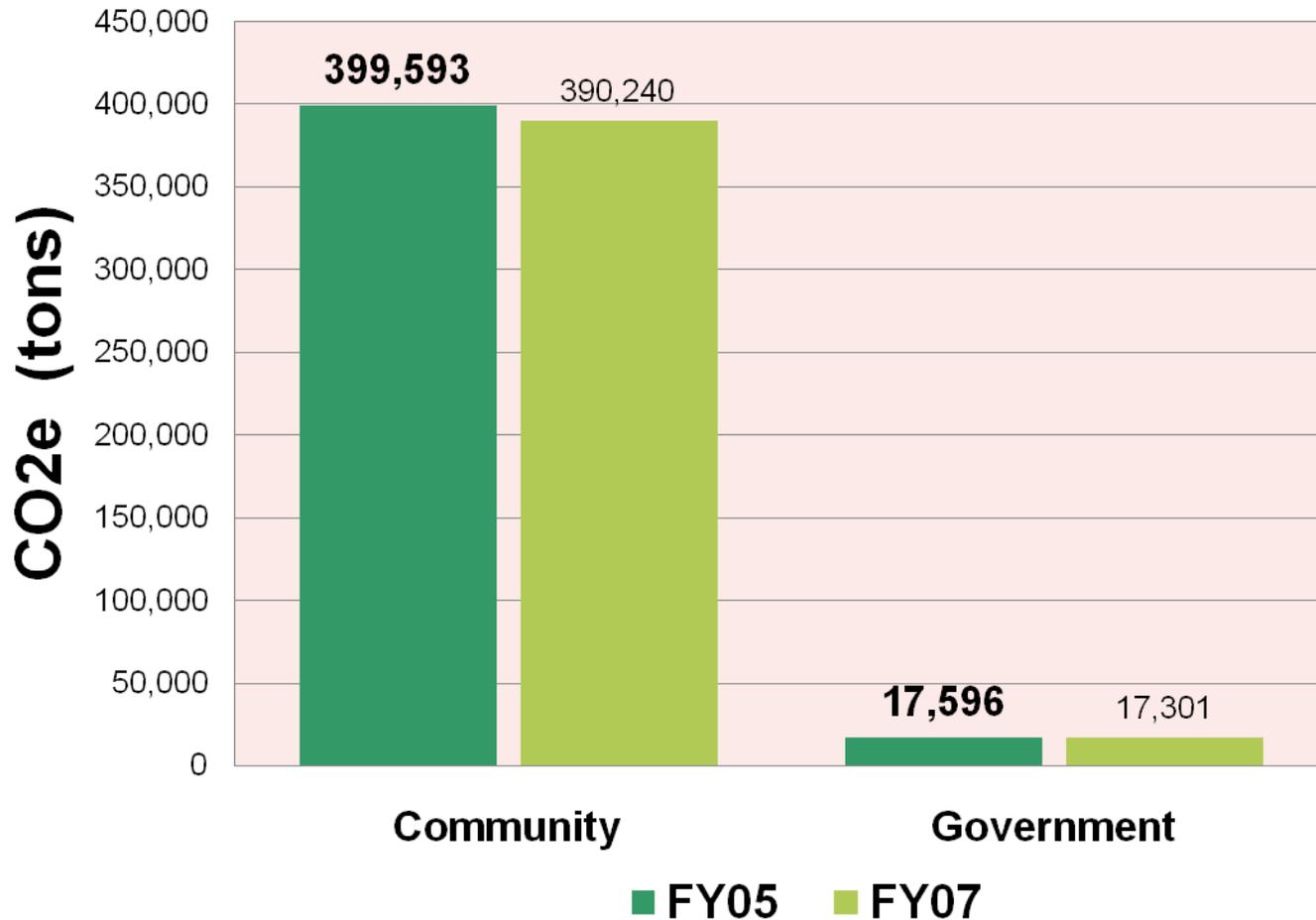
Key West Greenhouse Gas Emissions Inventory Report

March 4, 2008



*Cities for Climate Protection Campaign
ICLEI-Local Governments for Sustainability*

Total GHG Emissions by Year



FY05 Community GHG Emissions by Source

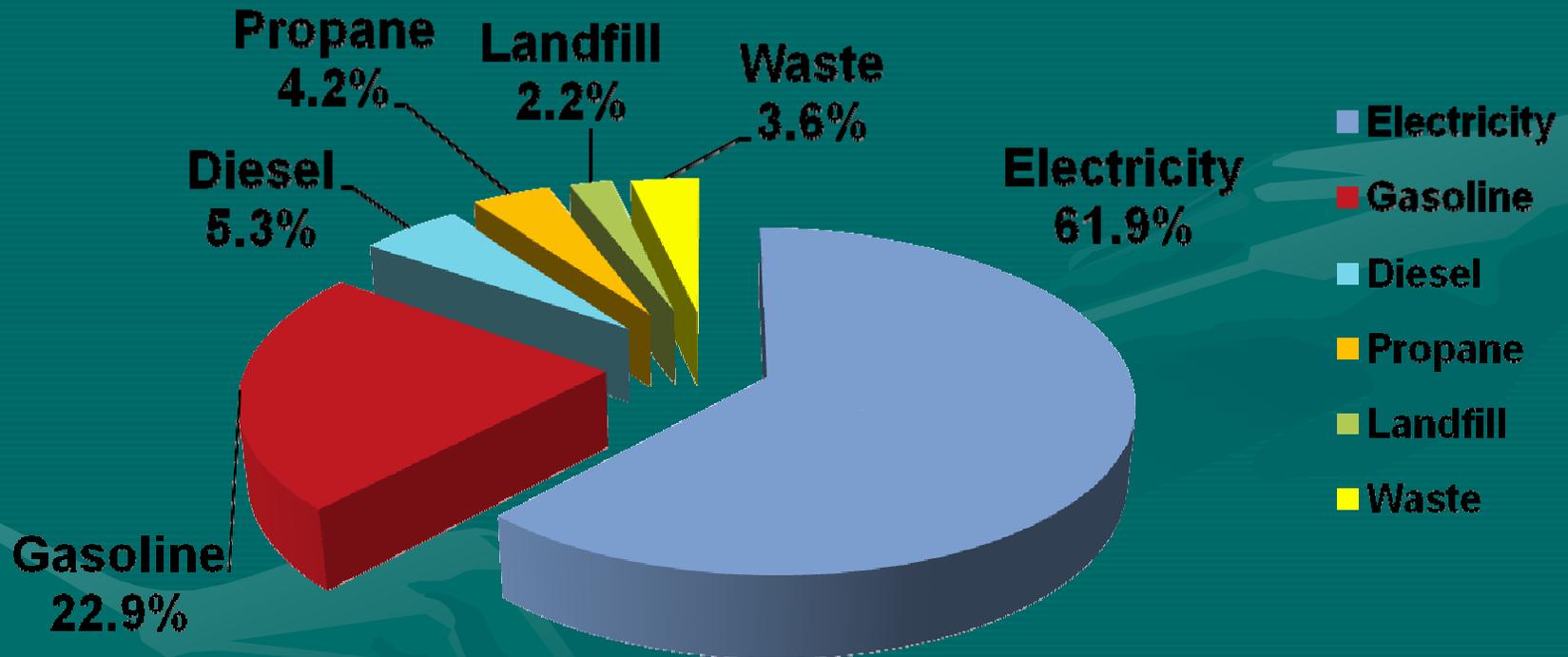
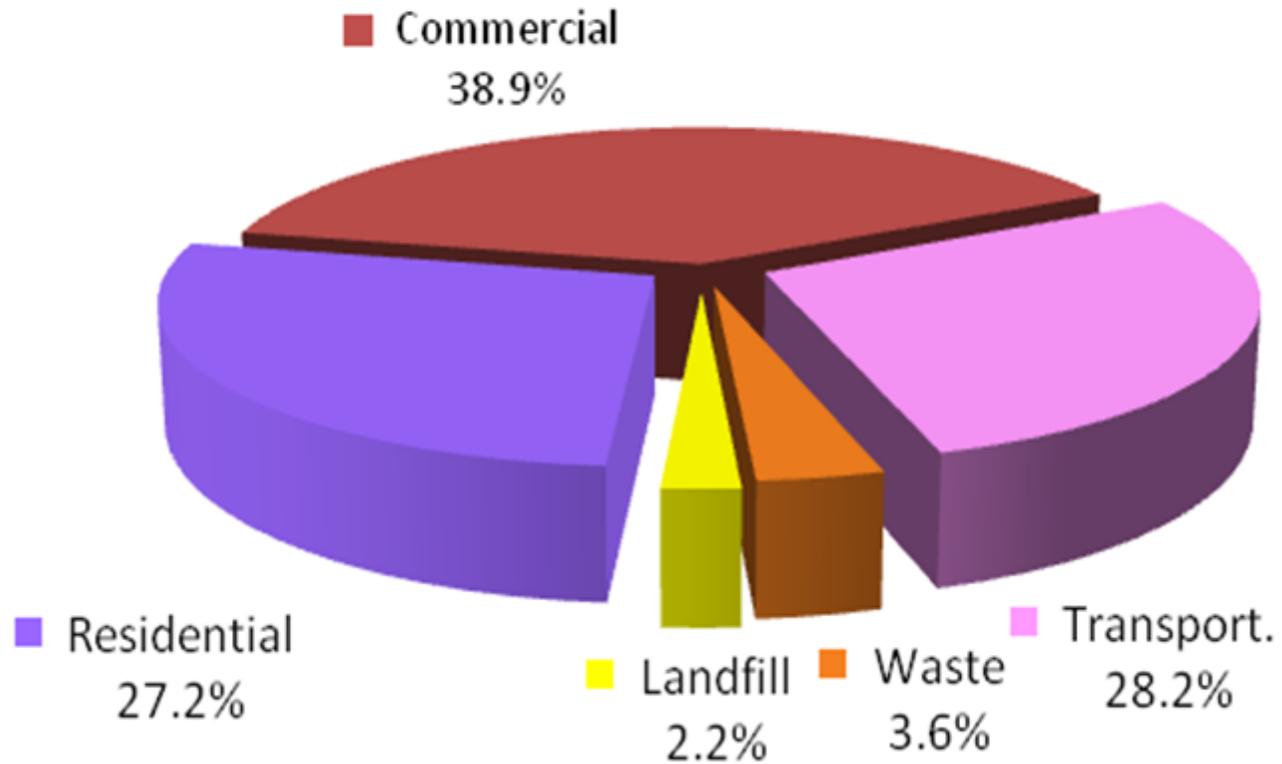


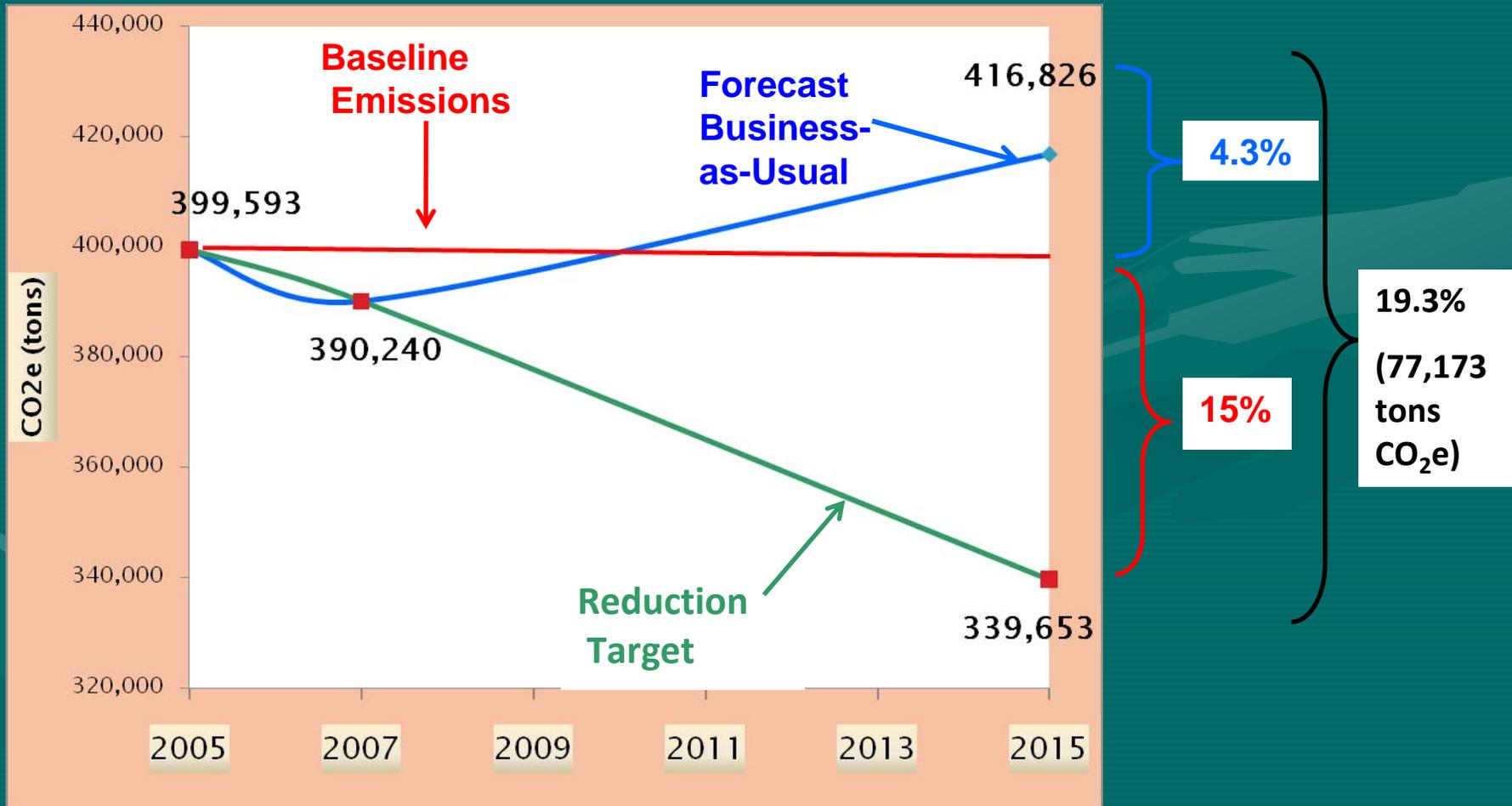
Figure 7: **FY05 Community GHG emissions by sector**



Key West Policy

- Reduce Greenhouse Gas Emissions by 15% from the 2005 base year by 2015
- Future expectations reduce 50% BY 2050

Community Forecast & Target



Implemented Measures

450 tons of CO₂e Reduction through

- RECYCLING INCREASES
- CITY FLEET CONVERTED TO B20 BIODIESEL
- CHANGING LIGHT BULBS IN STREETLIGHTS
- CHANGING TRAFFIC LIGHTS TO LED

Plan Development

- Climate Action Team
 - Stakeholders (business, agency, community)
 - Reports to City Manger
 - Viable Action Items
 - Project Costs
 - Carbon Reductions

- **Viability** –financially, technologically, and politically viable?
- **Cost-effectiveness** –are costs and benefits equitable and reasonable?
- **Implement ability** –Are potential barriers to implementation low?
- **Achievement of goals** –action contribute to short and long-term reduction goals?
- **Engagement** –potential for public engagement and education?

Action Areas



Action Areas

- Energy Alternatives
- Solid/Sewer Waste
- Transportation Emissions
- Increase Tree/ Plant Canopy
- Building Energy Efficiency

Commercial Climate Challenge

This program will engage Key West's business community to reduce their greenhouse gas emissions through:

- Green fleets
- Green building improvements such as green roofs, landscaping, etc
- Tie the agencies' CEO salary to the energy savings
- Use shared savings/energy performance contracting
- Self energy audit
- Additional support for those biking and walking to work

Residential Climate Change

- Outreach events and community partnerships will be used to conduct energy conservation, solar energy, and sustainable transportation challenges.
- Challenge all residents to *Turn it up a notch!*
- Switch to CFL's
- Switch to solar water heater
- Solar pool heaters

Incentivize Energy Conservation

- Implement a tiered rate for electricity consumption
- City to create incentives (50% paid by city) is a developer uses solar
- Grants to weatherize public buildings
- Charge utility tax for electric and propane.
Tangible benefit

YOU HAVE
the POWER™



Together, We Make a  rld of Difference

Break-out Session

Move to a table which is home to the subject you would like to discuss

