

Climate Change Action Plan Follow-up for GHG Reduction

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What we need from you

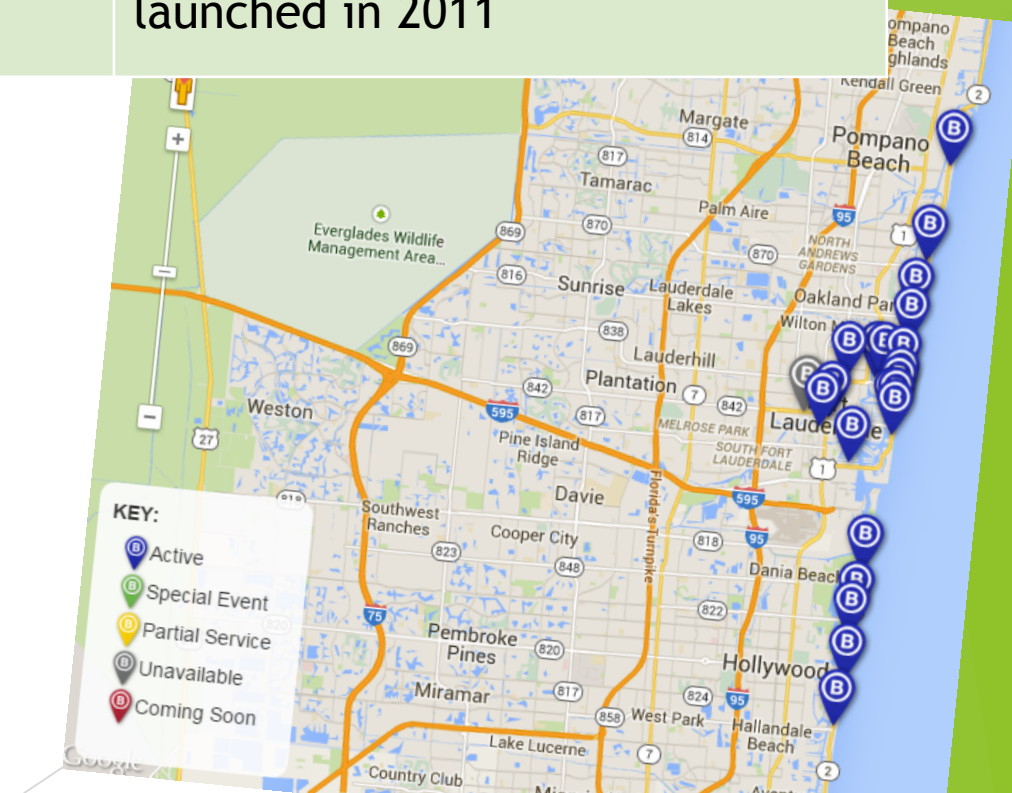
- ▶ Action for GHG reduction to
 - ▶ reduce greenhouse gas emissions, 2% per year
 - ▶ Measurable, verifiable and county has the authority to complete
- ▶ Sort actions to keep/revise /delete
- ▶ For actions to revise - identify modifications to actions

Transportation - Follow-up

Goal MT-2: Support Broward County's proposed Bike Share Program.

Action	Complete/ Initiated	Update
Action MT-2.1 Promote Bike Share program	Complete (Ongoing)	Broward B Cycle program launched in 2011

- ▶ 23 Stations
- ▶ 253 Bikes
- ▶ 6 Cities
- ▶ 99% solar-powered
- ▶ 28% increase in ridership in 2013-2014, greater increase expected in 2015



Actions Needed to Increase Bike Share

- ▶ Tie-in to bus stations and transit hubs
 - ▶ Utilize County complete streets program
- ▶ Company looks at density and foot traffic for locations, have map of potential locations but need the following to grow:
 - ▶ Safe Streets - well-lit, bike lanes, or at least “sharrows” and share-the-road signage
 - ▶ Non-slick striping



Built Environment - Follow-up

Goal ZB-1: Identify measures to reduce greenhouse gas emissions through changes in building codes and practices.

Action	Complete/ Initiated	Update
Action ZB-1.2 Encourage green and climate impact resistance construction practices	In Progress (Ongoing, Needs Attention)	In 2013, Broward County government committed to improve the climate resiliency and energy-efficiency of new and existing buildings and public infrastructure in the Broward County Comprehensive Plan
Action ZB-1.1 Support Energy Code changes	Initiated (Needs More Attention)	Community Energy Strategic Plan (CESP) approved in January 2015 - one component of the plan is to work on proposal for local code amendment. Proposal document drafted.

HOLLYWOOD, Florida

Highlights of Green Building Code

- ▶ Mandatory green building practices for new construction and major renovation
- ▶ Menu of Green Building Practices for developers
- ▶ 20,000 sqft or above must be LEED Certified, or certified by FGBC



Sort Actions

KEEP (AS IS)

This item is ongoing and in progress and something has should stay in the plan.

REVISE/EDIT

This item should stay in the plan but needs editing to include new information, more specifics, or other changes.

DELETE

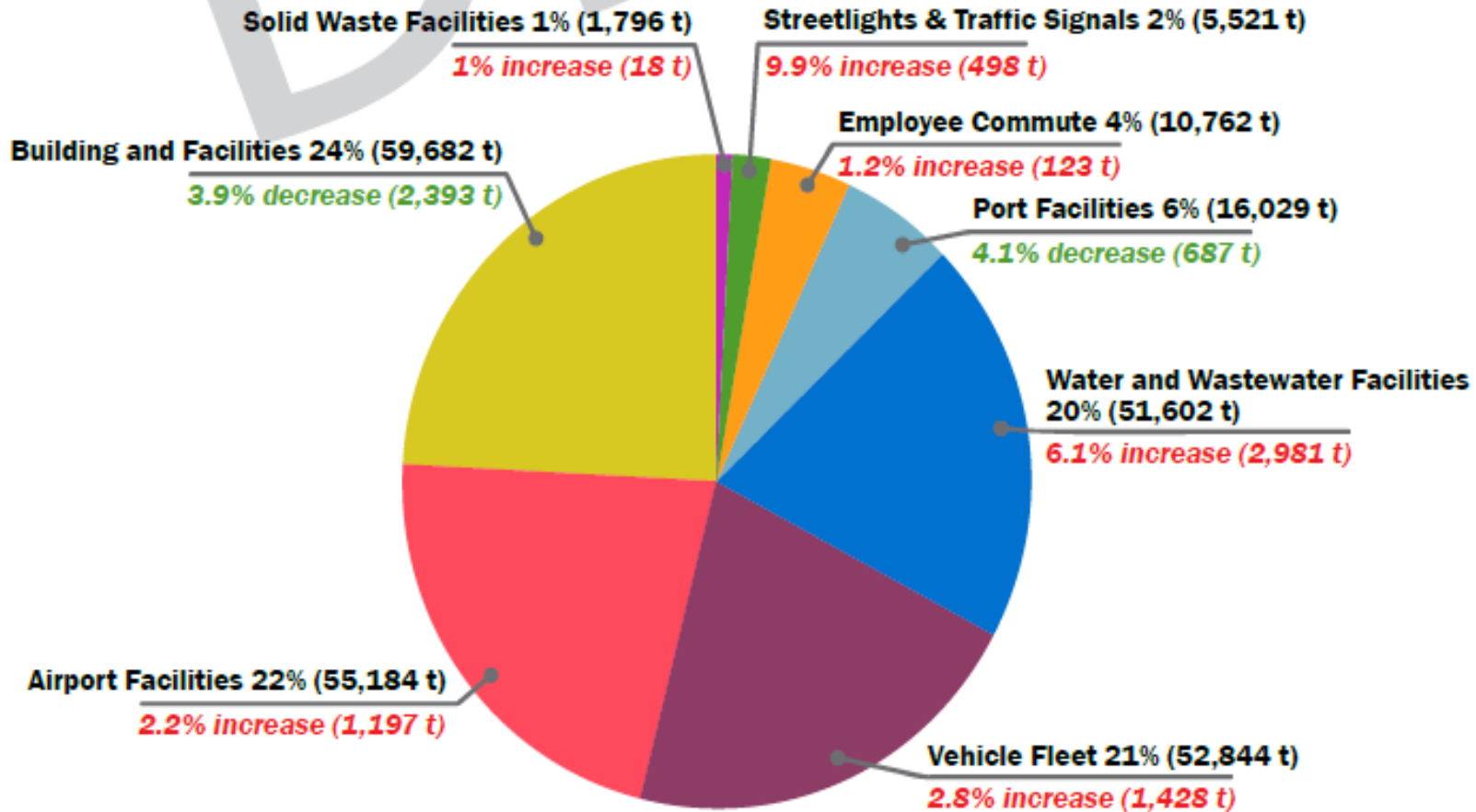
This item was completed and no longer is needed, or doesn't lead to GHG emissions reductions.



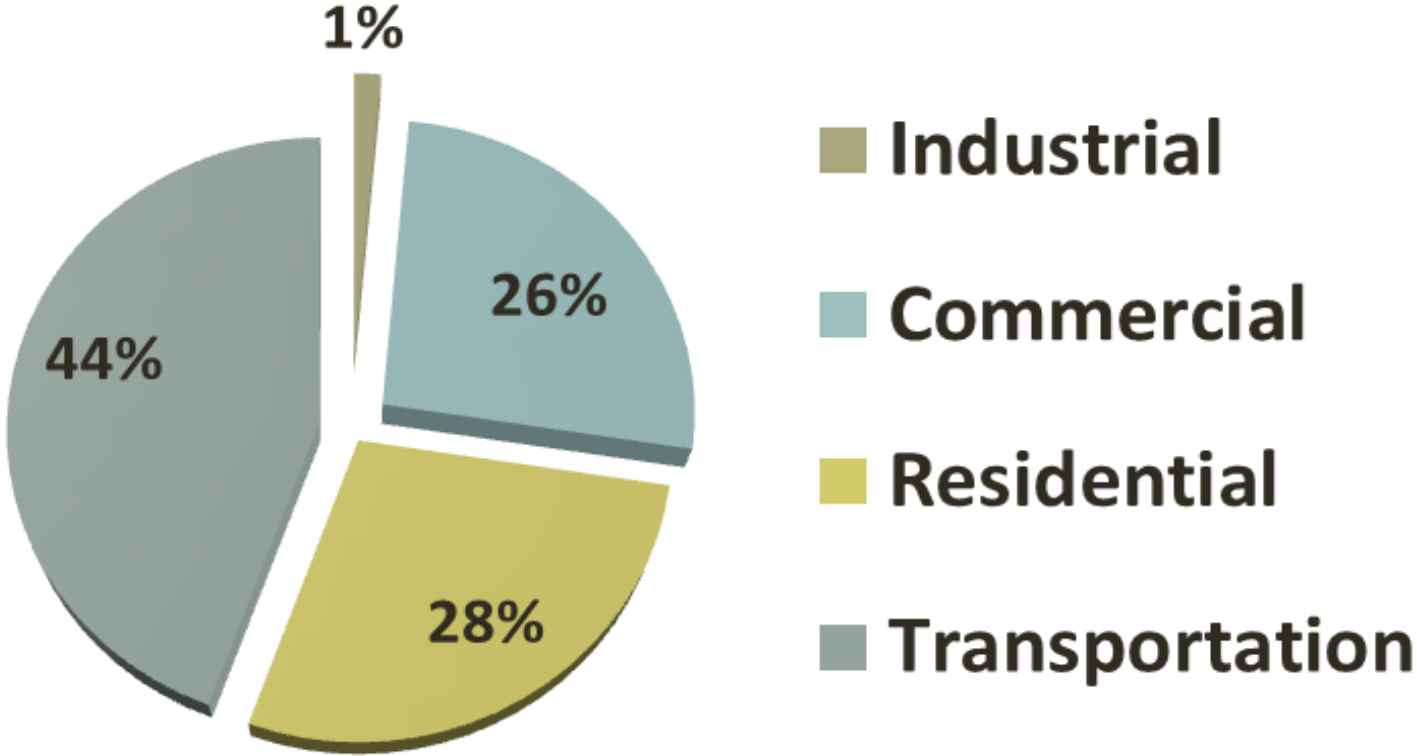
**KEEP
CALM
AND
SORT
OUT**

Broward County

**Figure 2: Broward County Government Operations
GHG Emissions (253,420 t)**



Broward Community-Wide



Survey Results

- ▶ Top 5 Recommendations for Reducing Greenhouse Gases
 - ▶ Incentivize solar PV and solar thermal (46.15%)
 - ▶ Implement PACE (46.15%)
 - ▶ Require Energy Disclosure (38.46%)
 - ▶ Optimize Traffic Signals (38.46%)
 - ▶ Provide for more public transportation (38.46%)



Other Suggested Actions

- ▶ Invest and implement more plans and incentives for the use and installation of renewable energy resources for homes and businesses
- ▶ Increase safe bike parking to encourage biking as an alternative to commuting in a single-occupancy vehicle

Water and Wastewater - Example

Goal WR-1: Ensure that the existing water resources and water infrastructure are protected and adequate supplies of water remain available for drinking, agriculture, and natural resources, while protecting water quality and minimizing the potential for flood damage and water shortages.

Action	Complete/ Initiated	Revise to Include
<p>Action WR-1.6 Reduce utility carbon footprint <u>ADD Broward WWS to get ENERGY STAR certified.</u></p>	<p>Initiated (Needs More Attention)</p>	<p><u>Broward water utilities to develop energy baseline, develop energy efficiency BMP's, and study renewable energy options</u></p>



Consumption - Case Study

Goal RZ-3: Achieve Zero Waste Goal by 2030

Action	Complete/ Initiated	Update
Action RZ-3.7 (LOW) Create program to encourage backyard composting	Initiated (Ongoing and Needs More Attention)	Initiated as a component of ongoing NatureScape Broward programs and outreach.

- ▶ Work toward zero waste goal by implementing special recycling programs for items such as Christmas trees, manure, and tires (Los Angeles case study)
- ▶ Encourage backyard composting by giving out free composting bins and composting guides (Orlando case study)

Transportation - Case Study

Goal MT-1: Create a functional mass transportation system that will reduce the current level of vehicle miles travelled and the amount of carbon emissions.

Action	Complete/ Initiated	Update
Action MT-1.2 Set vehicle miles travelled reduction goal	Not Initiated	Important to note, Community Energy Strategic Plan (CESP) there was a community goal set for the reduction of fuel use by 20%.

- ▶ Work towards vehicle miles travelled (VMT) reduction goal by increasing parking prices and expanding employer incentives for alternative transportation (Tucson case study)

Other Ideas

- ▶ Require local government to purchase products that use no more than 0.5 watts of power in standby mode
- ▶ Public investment in a solar thermal array (need 0.25 to 1 sq. mile of land)
- ▶ Grant application with partnerships to design resilient distributed energy system for county
- ▶ Solar installations on schools
- ▶ Fees for waste
- ▶ Ride-sharing for employers
- ▶ Vanpool subsidy
- ▶ Mandate carpool application for employees