



Plan It! Pompano

CLIMATE CHANGE ELEMENT

Purpose and Direction: The purpose of the Climate Change Element (CCE) is to create a planning approach for understanding and addressing the impacts of climate change within the regional framework established by Broward County and the Southeast Florida Climate Change Compact.

The City's strategy as laid out in these goals, objectives and policies is to focus on local vulnerability and address the local implications of global climate change to build a more sustainable and climate resilient community.

The City will implement appropriate adaptation, mitigation and accommodation strategies to protect the long-term viability and livability of the City.

Goals, Objectives, and Policies

Goal 12: Mitigate and build resilience to the impacts of climate change through utilization of the best available data, tools and strategies; identifying local vulnerabilities; committing to funding sustainability and resilience projects; preparing for disasters; reducing flood risk; and identifying opportunities to take climate leadership actions.

Objective 12.01.00 – Sustainability Strategy

The City will develop and implement a Sustainability Strategy that addresses the following 8 phases (aspects of which will be developed concurrently): Phase 1 - Quantitative Baseline and Greenhouse Gas Inventory; Phase 2 – Vulnerability Assessment and Adaptation Action Areas; Phase 3 – Sustainability Project Portfolio and Implementation Plan; Phase 4 – Adaptation Action Plan; Phase 5 – Sustainability Policy Integration; Phase 6 – Sustainability Communication Strategy; Phase 7 – Sustainability Data Management System; Phase 8 – Third Party Verification.

Policy 12.01.01 – Phase 1

Quantitative Baseline will include the following: a comprehensive greenhouse gas inventory for the baseline year based on the City's energy, water and materials use, fleet characteristics and fuel use, mechanical equipment, etc. Establish a base year inventory of community energy use, water use and waste generation. Establish goals based on the outcome of these inventories.

Policy 12.01.02 – Phase 2

Vulnerability Assessment and Adaptation Action Areas will include the following: Building off the 2013 Stormwater Master Plan 2 and 3 feet of sea level rise analysis, develop a comprehensive vulnerability assessment which provides insight into exposure of City facilities, critical infrastructure, seawalls, roadways and neighborhoods, of various climate change impacts including sea level rise, extreme precipitation, increased storm frequency/intensity and extreme heat. Incorporate socio-economic metrics such as low income, senior and minority populations to ensure social equity is considered in adaptation planning decisions. Use the results of this assessment to identify areas to be designated as Adaptation Action Areas.

Policy 12.01.03 – Phase 3

Sustainability Project Portfolio and Implementation Plan will include the following: Establish a portfolio of projects designed to meet the goals established in Phase 1. The projects should maximize financial, social and environmental benefits, including greenhouse gas reduction and resiliency. Develop an implementation plan that prioritizes projects to meet goals, establishes an implementation timeline, and includes funding sources and strategies.

Policy 12.01.04 – Phase 4

Adaptation Action Plan will include: development of an Adaptation Action Plan that draws on the Phase 3 Vulnerability Assessment. Adaptation actions will be identified and prioritized to improve resilience based on the identified vulnerabilities. Criteria such as feasibility, cost, social and environmental factors, qualitative and quantitative measures of project benefits, acceptance and obstacles will be used to identify suitable adaptation strategies. The plan should include an implementation schedule and funding analysis for prioritized actions.

Policy 12.01.05 – Phase 5

Sustainability Policy Integration will include but will not be limited to: the update to and modernization of the City's Sustainable Development Standards, Green Building Policy, Seawall Policy, and Sustainable Procurement Policy. Adaptation Action Areas, development of the Innovation District and improving mobility choices within the City will also be revisited to integrate up-to-date sustainability policies.

Policy 12.01.06 – Phase 6

Sustainability Communications Strategy will include: establishment of a brand for the City’s sustainability program. A web site will be developed to serve as a tool for communicating successes and soliciting public input. The communications plan will identify target audiences, appropriate media and best practices for internal and external engagement. The plan will lay the groundwork for internal and external reporting on a regular basis.

Policy 12.01.07 – Phase 7

Sustainability Data Management System and Reporting will include: Systematically tracking, trending and reporting on sustainability key performance indicators to verify results and justify investments. A software solution will be identified and customized to track data necessary to measure success towards the identified goals.

Policy 12.01.08 – Phase 8

Third Party Verification will include: achievement of a third-party sustainability certification through an organization such as LEED for Cities; ISO-14001, Global Resources Institute (GRI) or others. Such certification will allow the City to demonstrate regional leadership and receive public recognition for the City’s sustainability programs and initiatives. Meeting the third-party performance standards provides quality assurance for the City’s sustainability program.

Objective 12.02.00 – Land Use and Transportation

Decrease carbon emissions and increase community resilience through sustainable land use and transportation policies and regulations.

Policy 12.02.01

The City will support amendments to the land development code that support climate-smart development practices including but not limited to: solar installations; electric vehicle accommodations; water storage and rainwater reuse; permeable pavers; urban heat island reduction; increased tree canopy; green roofs, white roofs and white pavement; mechanized parking systems; bicycle accommodations; higher finished floor elevations; and those amendments to support the Third Party Verification program identified for use in the final phase of the Sustainability Strategy per Policy 12.01.08.

Policy 12.02.02

The City will continue to encourage mixed use development in the commercial corridors by identifying additional areas along the major corridors where mixed use land use districts that support and enhance walking, biking and transit use should be created and zoning adopted to facilitate the redevelopment of those areas.

Policy 12.02.03

The City will consider benchmarking the energy and waste production profiles of existing buildings as part of the Sustainability Strategy and providing support to building owners and managers to retrofit existing buildings to be more energy efficient and generate less solid waste.

Policy 12.02.04

The City will implement a micro-transit program using electric vehicles to reduce traffic to and from the various attractions in the City starting with the beach activity area and eventually expanding to serve the LIVE! Resorts Pompano development, the Downtown and Innovation District, the East Transit Oriented Corridor, the Cultural Center, the City’s Community Centers and community events and other public and private trip attractors in Pompano Beach.

Policy 12.02.05

The City will consider, as part of the Sustainability Strategy implementation, the feasibility of preparing a conceptual electric vehicle charging station master plan, which considers this infrastructure in a regional context, to identify the most advantageous locations for electric vehicle infrastructure.

Policy 12.02.06

The City will consider, as part of the Sustainability Strategy implementation, the planning required for future deployment of autonomous vehicles and drone delivery systems.

Policy 12.02.07

The City will encourage Broward County Transit to increase ridership by reducing headways and increasing bus routes, improving the real time route information application for smart phones and by providing customer friendly accommodations at all primary bus stops.

Objective 12.03.00 – Water and Natural Resources

The City will increase community resilience by protecting water and natural resources.

Policy 12.03.01

The City will continue to support the C-51 basin project to increase infiltration into the Biscayne Aquifer and push back the salt-water intrusion line threatening coastal wellfields and the City's fresh water supply.

Policy 12.03.02

The City will continue to expand the water reuse infrastructure system to reduce the demand for potable water for irrigation and will consider making connection to the reuse system mandatory when it becomes available in a neighborhood.

Policy 12.03.03

The City will cooperate and coordinate with County, State and Federal agencies on canal and shoreline protection programs to assist in the funding for new seawall construction and dune restoration projects to enhance coastal resilience and protection from storm surge.

Policy 12.03.04

The City will continue to promote the protection and restoration of coastal natural system and coral reefs, both natural and artificial to help the area's reefs adapt to changing climate and ocean acidification.

Policy 12.03.05

The City will continue to work with Federal, State and County agencies on solutions to beach erosion and sediment supply and will align beach erosion prevention efforts with the Florida Department of Environmental Protection's Strategic Beach Management Plan (SBMP) for the Southeast Atlantic Coast Region.

Objective 12.04.00 – Public Outreach, Communication and Coordination

Increase community resilience and climate adaptation and mitigation through effective public outreach, communication and coordination with local, regional, state and national entities.

Policy 12.04.01

The City will partner with local governments, academic institutions, libraries, faith-based organizations, and community groups to disseminate local and regional climate change and resiliency messages.

Policy 12.04.02

The City will continue to expand the use of social media and other emerging forms of communication to promote public awareness and understanding of climate change impacts and resiliency matters.

Policy 12.04.03

The City will provide educational materials on home energy, water use reduction strategies and any grant programs or low cost financing options that may become available to assist home and business owners to retrofit existing buildings to lower energy and water use.

Policy 12.04.04

The City shall continue to support public education and outreach programs addressing issues including, but not limited to:

- a. Energy efficiency,
- b. Water conservation,
- c. Solid waste reduction and recycling,
- d. Urban forests and native landscaping,
- e. Air quality,
- f. Greenhouse gas reduction, and
- g. Climate change adaptation and response planning.

Policy 12.04.05

The City will continue participating in and collaborating with the Southeast Florida Regional Climate Change Compact on climate change impact analyses and development of appropriate mitigation, protection, accommodation and adaptation strategies.

Policy 12.04.06

The City shall support the efforts of State, regional and County environmental and planning agencies to jointly develop, assess, and recommend a suite of planning tools and adaptation strategies for local municipalities to maximize opportunities to adapt and protect from the impacts of climate change.

Policy 12.04.07

The City shall cooperate with the South Florida Water Management District, Broward County and the U.S. Corps of Engineers in the comprehensive evaluation of the stormwater management system and operational practices in the context of sea level rise to improve the ability of these systems to adapt.

Policy 12.04.08

The City shall advocate for state laws and programs that expand all opportunities for solar or other renewable energy deployment statewide.