

City of Delray Beach Climate Action Plan (CAP)

Designed to Accomplish City Contribution to Limit Warming to 1.5 Degrees Celsius; and Prepare Delray Beach such that Climate Impacts are Minimized

OUTREACH and EQUITY principles are built into all of the GOAL sections of the CAP

ENERGY GOAL- Increase regional energy resilience through a just and equitable transition from non-renewable to renewable energy sources and accelerate progress towards net zero greenhouse gas emissions

Reduce GHG emissions by 50% by 2030 and reach net zero carbon emissions by 2050, or sooner.

Advance energy efficiency and conservation using methods including technological solutions, behavioral strategies and policies in order to reduce GHG emissions

Implement and expand mandatory green building ordinance.

Set percent renewable energy targets.

Audit, benchmark, and/ or retro-commission large, existing government buildings. Use existing resources/programs to assist private sector in same voluntarily.

Retrofit existing government buildings to optimize efficiency, and build new facilities to energy-efficient standards.

Explore implementation of more efficient building performance standards, e.g. IgCC Standard 189.1.

Install distributed solar + energy storage systems in all facilities (Administrative, Public Safety, Utilities, Public Works, etc.) that have assigned functions in emergency management plans.

Support and advocate for installation of distributed solar + energy storage systems at hurricane shelters, buildings that house frontline populations (e.g. nursing homes), or government operations centers for disaster recovery and emergency management.

Reduce renewable energy and energy efficiency soft costs. Streamline permitting and administrative processes to reduce the soft costs. Reduce or eliminate permitting fees and streamline/ expedite inspections.

Advocate for state and federal laws and programs that expand solar energy deployment.

Increase accessibility and expand the use of distributed (on-site) renewable energy and storage technology through policies, practices and technological development.

Expand use of renewable energy. Increase accessibility to energy efficiency solutions prioritizing limited-income households and frontline communities. Create new energy efficiency programs for low-to-moderate income (LMI) households that reduce the financial burden.

Develop incentives for new properties to be solar-ready or include a minimum amount of solar energy production per property.

Develop an incentive for increasing the energy efficiency of properties during 30- and/or 40-year building recertifications.

Seek alternative funding sources for expanding renewable energy purchasing options

WATER GOAL: Identify, develop and implement integrated water management strategies and infrastructure improvements concurrently with existing and enhanced water conservation and alternative water supply source efforts to mitigate the adverse effects of climate change, including sea level rise on water resources systems and operations.

Practice integrated water resources management and planning.

Develop a local integrated water management plan, in cooperation with regional partners to address issues such as: Stormwater use and disposal, Rainfall-derived inflow and infiltration, Traditional and alternative water supplies, Wastewater disposal, Water reuse, Expansion of water conservation measures, Amendments to development codes and regulations.

Ensure all water resource planning, policy, and management decisions are consistently aligned with: The latest Southeast Florida Regionally Unified Sea Level Rise Projections; Regional climate scenarios for planning (e.g., longterm patterns of rainfall and evapotranspiration, storm surge, design storm events); and Hydrologic models used in adaptation planning from local to regional scales.

Expand use of green infrastructure and net zero solutions in water management, including nature-based solutions and net zero greenhouse gas emission strategies for water supply, stormwater and wastewater management. Reuse/limit energy use to the amount produced on-site via renewable energy.

Assess potential climate impacts on water infrastructure.

Evaluate the potential impacts of changes in groundwater levels on wastewater and stormwater systems.

Ensure that capital planning, design and construction of water infrastructure projects incorporates resilience and water quality considerations. Identify, and prioritize climate adaptation projects for water supply, wastewater systems, stormwater management and flood protection as part of capital improvement plans.

Use the Climate Change Vulnerability Assessment (AccelAdapt) to evaluate risk of infrastructure flooding, and to prioritize adaptation improvements, considering combined surface and groundwater impacts.

Expand surface water storage, and retain land to protect, preserve and enhance regional water storage.

Develop distributed surface water storage to increase the potential for stormwater capture and reuse for water supply, aquifer recharge, flood management and environmental benefits.

Support and encourage private property adaptation, flood awareness and preparedness, to contend with increased flooding and higher groundwater.

Consider incremental adaptations to water infrastructure development standards for drainage systems, surface water management systems, and finished floor elevations to reflect future climate conditions.

Water Conservation Program, leak assessment and repair, low flow fixtures, automatic on/off,...

TRANSPORTATION GOAL

Planning- ST-1, ST-2, ST-8, ST-11, ST-12...

City Fleet Transition- see RCAP ST-22, ST-23

EV Charger Infrastructure

Multi-modal Transportation

ST-16 Reduce emissions and increase resilience via transportation planning - Ensure transportation planning and investments reduce GHG emissions and increase the transportation system's resilience to extreme weather and climate impacts.

GREEN INFRASTRUCTURE and NATURAL ENVIRONMENT GOAL

CLIMATE RESILIENCE GOAL

Built Environment

Emergency Preparedness

Public Health

Economic Resilience

POLICY, LEGISLATIVE ADVOCACY GOAL

Major Headings of other CAPs

RCAP 3.0

Agriculture

Informed and Engaged Communities/Equity

Public Policy Advocacy

Sustainable Communities and Transportation

Energy

Natural Systems

Regional Economic Resilience

Water

Public Health

Risk Reduction and Emergency Management

Boca

Boynton

Electricity

Water

Energy and Water

Waste

Waste and Consumption

Natural Environment

Trees and Greenspace

Built Environment

Climate Adaptation

Transportation

Transportation

Climate Resiliency

Equity

Government