



GOAL 1: Achieve a sustainable, climate resilient community by: promoting energy efficiency and greenhouse gas reduction strategies; protecting and adapting public infrastructure, services, natural systems and resources from climate change impacts, and; continuing to coordinate with other agencies to address climate change at the local, County, regional, State, federal, and global levels.

Objective CC-1

Mitigate the causes of climate change while providing for cleaner energy solutions and a more energy efficient way of life for residents, visitors and businesses.

Monitoring Measures CC-1

1. Percent reduction in greenhouse gas emissions from government operations from baseline year 2017 and date of inventory, and/or since the date of the last inventory. (Target: at least 25% by 2030)
2. Percent reduction in overall greenhouse gas emissions, regionally and at the local level, between 2010 and date of inventory, and/or since date of the last inventory. (Target: at least 25% by 2030)

Policy CC-1A: The Town of Cutler Bay shall quantify greenhouse gas emissions resulting from its government operations by 2020, and develop a plan to reduce these emissions by 25 percent by 2030. The Town will continue to regularly monitor and track the progress of programs and initiatives that contribute to the ultimate reaching of this goal.

Policy CC-1B: The Town of Cutler Bay shall develop building standards that promote the increased use of solar electricity in the community, and shall monitor the initiatives of Miami-Dade County and other agencies in the development of renewable energy sources, including wind, geothermal and ocean energy technologies.

Policy CC-1C: The Town of Cutler Bay shall coordinate with legislative representatives to reduce regulatory barriers and develop incentives for renewable and alternative energy installations.

Policy CC-1D: The Town of Cutler Bay shall implement expedited permitting for the installation of alternative fuel and electric vehicle charging infrastructure.

Policy CC-1E: The Town of Cutler Bay shall coordinate with Miami-Dade County and the private sector to reduce greenhouse gas emissions and create "green" jobs by: promoting green economic growth and green-collar work training programs; expanding the market for energy efficient products and services; supporting renewable and alternative energy production, and; promoting and incentivizing energy conservation retrofits.



Objective CC-2

Improve the climate resiliency and energy-efficiency of new and existing buildings and public infrastructure.

Monitoring Measures CC-2

1. Percent of new development or redevelopment in the Town between 2016 and 2030, or date of evaluation, that is LEED-certified, or awarded a comparable green certification. (Target: at least 50% by 2030)
2. Number of capital projects that increased infrastructure resiliency to climate change between 2016 and 2030, or date of evaluation.

Policy CC-2A: The Town of Cutler Bay shall encourage greener, more energy-efficient and climate resilient construction practices by:

1. Requiring that the construction or renovation of Town-owned facilities meets Florida Green Building Coalition, US Green Building Council Leadership in Energy and Environmental Design (LEED), or other acceptable commercial building standards;
2. Encouraging commercial builders to require that the construction or renovation of commercial facilities meets Florida Green Building Coalition, US Green Building Council Leadership in Energy and Environmental Design (LEED), or other acceptable commercial building standards;
3. Encouraging licensed Town personnel to maintain LEED Green Associate certification;
4. Re-evaluating finish floor elevation standards with respect to projected sea level rise scenarios and flooding potential, and;
5. Incorporating building design specifications that increase resistance to more frequent and/or intense storm events.

Policy CC-2B: The Town of Cutler Bay shall evaluate risk from sea level rise or climate change related impacts in the location and design of new infrastructure, as well as the fortification or retrofitting of existing infrastructure.

Policy CC-2C: The Town of Cutler Bay shall make the practice of adapting the built environment to the impacts of climate change an integral part of its planning processes, including comprehensive planning, building codes, land development regulations, resource management, flood control and stormwater management, coastal management, community development and capital planning.

Policy CC-2D: The Town of Cutler Bay shall promote shoreline protection and erosion control by maintaining the buffer area between developed areas and the shoreline, and considering hard structures such as seawalls only when alternative options are unavailable.

Policy CC-2E: The Town of Cutler Bay shall implement strategies and practices to improve resilience to coastal and inland flooding, salt water intrusion, and other climate change impacts.



Objective CC-3

The Town of Cutler Bay shall advance transportation and land use alternatives that: reduce fossil fuel use; improve the mobility of people, goods and services; provide a diverse, efficient, and equitable range of transportation options, and; increase the Town's resiliency to the impacts of climate change.

Monitoring Measures CC-3

1. Percent reduction in vehicle miles traveled between 2016 and 2030, or date of evaluation. (Target: at least 50% by 2030)

Policy CC-3A: New roadways in the Town of Cutler Bay shall be designed to: prevent and control soil erosion; minimize clearing and grubbing operations; minimize storm runoff; minimize exposure to and risk of climate change impacts such as increased flooding, and; avoid unnecessary changes in drainage patterns.

Policy CC-3B: The Town of Cutler Bay shall require new construction, redevelopment, additions, retrofits or modifications of property to: incorporate permeable driveways consisting of porous concrete, open cell unit pavers (turf block), flagstone, or brick pavers; reduce total impervious area, and; employ other techniques to reduce run-off, capture and reuse rain water, allow the infiltration of water into the underlying soil, and recharge the Biscayne Aquifer.

Policy CC-3C: The Town of Cutler Bay shall continue to support initiatives which seek to diversify fuel options for fleet vehicles, and expand infrastructure for charging electric and hybrid electric vehicles.

Policy CC-3D: The Town of Cutler Bay and its transportation partners shall continue to implement strategies to improve bicycle and pedestrian ways which safely and conveniently connect residential areas to recreational areas and major activity centers, and which safely connect bicycle and pedestrian ways along major thoroughfares throughout the Town.

Policy CC-3E: Development and redevelopment in the Town of Cutler Bay shall provide for pedestrian friendly street design, an interconnected street network and hierarchy to reduce congestion and improve traffic flow, design that promotes the use of non-motorized transportation modes, connectivity to transit, and a range of uses in a compact area to reduce the need for external trips.

Objective CC-4

Coordinate with Miami-Dade County in improving the resiliency of existing water resources and water and wastewater infrastructure to climate change impacts, while improving energy efficiency and reducing greenhouse gas emissions.

Monitoring Measures CC-4

1. Implementation status of policies CC-4A – CC-4E.

Policy CC-4A: The Town of Cutler Bay shall coordinate with the Miami-Dade County to identify any existing septic tanks that may be currently at risk of malfunctioning due to high groundwater levels or flooding, and develop programs to abandon these systems and/or connect users to the public sewer system.

Policy CC-4B: The Town of Cutler Bay shall continue to participate in regional water conservation initiatives in coordination with the South Florida Water Management District, Miami-Dade County and other agencies.



CLIMATE CHANGE ELEMENT

Policy CC-4C: The Town of Cutler Bay shall coordinate with the appropriate agencies in the implementation of adaptive management strategies to improve the climate change resiliency of water and wastewater infrastructure and resources.

Policy CC-4D: The Town of Cutler Bay shall continue to develop regulations that require new construction, and redevelopment to: manage stormwater runoff; incorporate porous materials; reduce total impervious area, and; employ other techniques to reduce runoff, capture and reuse rainwater, and recharge the Biscayne Aquifer.

Policy CC-4E: The Town of Cutler Bay shall coordinate with the appropriate agencies to mitigate water supply losses resulting from saltwater intrusion, and to address climate change impacts on the coastal aquifer.

Objective CC-5

Protect, enhance and improve the climate change resiliency of the Town's natural environment and ecosystems.

Monitoring Measures CC-5

1. Number of new street trees planted, and the resulting increase in tree canopy. (Target: at least 20% increase between 2016 and 2030)
2. Implementation status of policies CC-5A – CC-5G.

Policy CC-5A: The Town of Cutler Bay shall continue to support local, County, regional, State and national environmental restoration, mitigation and adaptive management efforts to improve the resiliency of natural lands and systems to climate change.

Policy CC-5B: The Town of Cutler Bay shall consider the climate adaptation needs of native plants and animal species, and strategies to assist in their natural migration.

Policy CC-5C: The Town of Cutler Bay shall promote species diversity, the planting of native landscapes, and sustainable landscaping practices in order to protect and enhance the resiliency of natural resources to climate change.

Policy CC-5D: The Town of Cutler Bay shall encourage the planting of native trees that sequester and store high levels of carbon on public and private lands, including vacant and/or underutilized properties.

Policy CC-5E: The Town of Cutler Bay shall continue to maintain and enhance its tree canopy through such efforts as implementation and periodic update of its Street Tree Master Plan, urban forestry grants, and other actions.

Policy CC-5F: The Town of Cutler Bay shall evaluate stormwater management operations in the context of sea level rise in order to: lessen negative impacts to open spaces, wetlands, and other natural systems; improve the ability of these systems to adapt to climate changes, and; optimize the ability of these systems to create additional benefits to Town residents, businesses and visitors.

Policy CC-5G: The Town of Cutler Bay shall coordinate with the County and other agencies to protect ecosystems from contamination that might result from inundation, structural failure or abandonment resulting from sea level rise, storm events, and/or other climate change impacts.



Objective CC-6

Develop and implement adaptation strategies to address impacts associated with coastal flooding, tidal events, storm surge, flash floods, stormwater runoff, salt water intrusion and other impacts related to climate change, with the intent of increasing the Town's comprehensive adaptability and resiliency capacities. Adaptation strategy options may include but are not limited to: protection; accommodation; managed retreat; avoidance, and/or; other options.

Monitoring Measures CC-6

1. Implementation status of policies CC-6B – CC-6G.

Policy CC-6A: The Town of Cutler Bay shall identify and designate Adaptation Action Areas as provided by Section 163.3164(1), Florida Statutes, and develop policies for adaptation as required for the protection of areas and facilities in the Town that are vulnerable to the impacts of rising sea levels and climate change. Areas that might be designated as Adaptation Action Areas in the Town may include but are not be limited to:

1. The Coastal High Hazard Area;
2. Areas subject to inundation due to sea level rise, and;
3. Areas expected to experience the greatest extent of flooding in a 100-year flood event.

Those areas identified in Exhibit CC-1 are hereby adopted and designated as Adaptation Action Areas. The highest priority for action shall be in the high emphasis areas most vulnerable to impacts and/or which are likely to be impacted first. Longer term action steps shall also be taken to address projected future sea level rise and climate change impacts in the moderate emphasis areas.

Policy CC-6B: The Town of Cutler Bay shall collaborate with the South Florida Water Management District in order to review, develop and implement strategies to address impacts of rising sea levels on the operation of the flood and salinity control structures.

Policy CC-6C: The Town of Cutler Bay shall consider the installation of backflow preventers on drainage systems that discharge to Biscayne Bay or drainage canals in coordination with the appropriate agencies.

Policy CC-6D: The Town of Cutler Bay shall increase the minimum required base flood finished floor elevation of all new structures within designated Adaptation Action Areas by one additional foot.

Policy CC-6E: The Town of Cutler Bay shall construct the additional stormwater drainage infrastructure necessary to accommodate projected increases in stormwater, including drainage wells, injection wells, swales, bioswales, French drains, and other related structures.

Policy CC-6F: The Town of Cutler Bay shall coordinate with the appropriate local, regional, and State agencies including Miami-Dade County, the South Florida Water Management District and the South Florida Regional Council in the implementation of Adaptation Action Area strategies.

Policy CC-6G: The Town of Cutler Bay shall coordinate with Miami-Dade County in the review of the Salt Barrier Line in an effort to determine whether the legislation needs to be amended due to increases in sea level and to help identify measures and improvements necessary to protect against salt water intrusion in the area of the established line.



Objective CC-7

Coordinate with local, County, regional, State and federal agencies and other non-governmental entities and academic institutions in the ongoing assessment of climate change and sea level rise, and continue to collaborate in the identification and implementation of appropriate mitigation, protection, accommodation and adaptation strategies.

Monitoring Measures CC-7

1. Implementation status of policies CC-7A – CC-7C.

Policy CC-7A: The Town of Cutler Bay shall coordinate with Miami-Dade County and other participating counties in the Southeast Florida Regional Climate Change Compact in the identification of modeling resources and development of initiatives and goals to address climate change.

Policy CC-7B: The Town of Cutler Bay shall continue to coordinate regionally with southeast Florida counties and municipalities, academia, and local, regional, State and federal agencies in the analysis of sea level rise, drainage, storm surge and hurricane impacts and the planning of mitigation and adaptation measures.

Policy CC-7C: The Town of Cutler Bay shall continue to actively monitor the Southeast Florida Regional Climate Change Compact, and shall coordinate with neighboring municipalities to make our community more climate change resilient by sharing technical expertise, assessing regional vulnerabilities, advancing agreed upon mitigation and adaptation strategies and developing policies and programs.

Objective CC-8

Increase opportunities for the community to learn about and participate in decision-making processes regarding climate change.

Monitoring Measures CC-8

1. Implementation status of policies CC-8A – CC-8C.

Policy CC-8A: The Town of Cutler Bay shall support community engagement in climate change adaptation and response planning.

Policy CC-8B: The Town of Cutler Bay shall provide information to the public and community stakeholders about the current and potential impacts of climate change and sea level rise, as well as mitigation, protection, accommodation and adaptation strategies.

Policy CC-8C: The Town of Cutler Bay shall continue to support public education and outreach programs addressing issues including but not limited to: energy efficiency; water conservation; solid waste reduction and recycling; urban forests; native landscaping; air quality, and; greenhouse gas reduction.



Exhibit CC-1. Adaptation Action Areas

