

# EXHIBIT 2

**SECTION I**  
**AMENDMENT REPORT**  
**BROWARD COUNTY LAND USE PLAN TEXT**  
**PROPOSED AMENDMENT PCT 20-8**

**“ADAPTATION ACTION AREAS”**

**RECOMMENDATIONS/ACTIONS**

**DATE**

*I. Planning Council Staff Transmittal Recommendation*

*October 13, 2020*

It is recommended that the proposed text amendment be approved. Please see **Attachment 1**.

As the Planning Council is aware, the Broward County Charter requires at least one Planning Council public hearing and Article 1.2(A) of the *Administrative Rules Document: BrowardNext* outlines the following circumstances in which a second Planning Council public hearing may be recommended or required:

- (1) At its initial public hearing, the Planning Council takes an action to recommend denial of a proposed amendment; or
- (2) At its initial public hearing, the Planning Council takes an action to recommend approval subject to meeting specific criteria or policy prior to a second Planning Council public hearing; or
- (3) At its initial public hearing, the Planning Council votes by a majority of the members present with a minimum of six (6) affirmative votes for a second Planning Council public hearing; or
- (4) If the County Commission requests by a vote of the majority of members present to request a second Planning Council public hearing; or
- (5) If an objection or comment on adverse impacts to important state resources or facilities is issued during the State of Florida Chapter 163 review process; or
- (6) If State of Florida Chapter 163 requires or is modified to require a second local planning agency public hearing.

**If the Planning Council chooses to require a second Planning Council public hearing per Article 1.2(A)(1)(2) or (3), such recommendation must be made as part of its motion.**

*II. Planning Council Transmittal Recommendation*

*October 22, 2020*

Approval per Planning Council staff transmittal recommendation, including not requiring a second Planning Council public hearing. (Vote of the board; Unanimous; 16-0: Blackwelder, Blattner, Breslau, Castillo, DiGiorgio, Fernandez, Gomez, Good, Graham, Hardin, Maxey, Parness, Railey, Rich, Ryan and Stermer.)

**SECTION II**  
**AMENDMENT REPORT**  
**PROPOSED AMENDMENT PCT 20-8**

**BACKGROUND**

The Broward County Board of County Commissioners adopted the Climate Change Resilience Vision on April 25, 2017, as part of the BrowardNext – Broward County Land Use Plan initiative. “BrowardNext” comprehensively updated the County’s land use planning program within the context of meeting the challenges of Broward County’s future and anticipated population growth of 235,000 new residents by the Year 2040. Seven (7) regional issues were highlighted, including the Climate Change Resilience Vision, and strategies for each regional issue were adopted.

The purpose of this text amendment is to revise Climate Change Resilience Vision Strategy CCR-2 for consistency with the update of the Priority Planning Areas for Sea Level Rise map (see corresponding amendment **PCNRM 20-2**). The proposed amendment to this strategy will reflect future conditions anticipated for a 50-year planning horizon (i.e. through 2070), which predicts a 40 inch (3.3-foot) increase in sea level rise, versus the current 2-foot increase by 2060. **See Attachment 1.**

**PUBLIC OUTREACH**

The Broward County Environmental Planning and Community Resilience Division (EPCRD) held two (2) virtual public workshops on June 23 and July 7, 2020. The workshops were attended by close to 100 stakeholders representing several municipalities and regional agencies. The EPCRD also made presentations at the Broward County Water Advisory Board’s (WAB) meeting on September 11, 2020, as well as the WAB’s Technical Advisory Committee on August 21, 2020. Planning Council staff also distributed the proposed amendment via email to all municipal mayors, managers and planning directors on September 9, 2020. As of this writing there were no concerns or objections regarding the proposed text amendment.

General questions and comments regarding corresponding PPA map amendment **PCNRM 20-2**, as well as the EPCRD staff responses from the workshops and presentations, can be found in **Attachment 2** of that item.

**SECTION III**  
**AMENDMENT REPORT**  
**PROPOSED AMENDMENT PCT 20-8**

**PLANNING ANALYSIS**

The purpose of this text amendment is to revise the Climate Change Resilience Vision Strategy CCR-2 for consistency with the update of the Priority Planning Areas for Sea Level Rise map (see corresponding amendment **PCNRM 20-2**). Strategy CCR-2 will be amended to reflect future conditions anticipated for the current 50-year planning horizon (i.e. through 2070), which predicts a 40 inch (3.3-foot) increase in sea level rise, versus the current 2-foot increase by 2060. **See Attachment 1.**

Planning Council staff recommends approval of the proposed text amendment.

**SECTION IV**  
**AMENDMENT REPORT**  
**PROPOSED AMENDMENT PCT 20-8**

**ATTACHMENTS**

1. Proposed Text Amendment PCT 20-8

A photograph of a white lifeguard stand on a beach. The stand is elevated on wooden stilts and has a sign with the number '18' on its side. Waves are crashing against the base of the stand, and palm trees are visible in the background under a clear blue sky.

## ATTACHMENT 1

# CLIMATE CHANGE RESILIENCE VISION

Southeast Florida is one of the most vulnerable regions in the United States to the impacts of climate change. Critical action to adapt to the consequences of climate change must occur at the local level through regionally coordinated planning and investments. Broward County has been active in prioritizing efforts to investigate vulnerabilities, improve climate preparedness and identify strategies to increase resilience to extreme weather. Working with the 4-County Southeast Florida Climate Change Compact, Broward County has contributed to the development of a Regional Climate Action Plan, a unified regional sea level rise projection, and vulnerability assessments focused on infrastructure, public health, and natural systems. Independently, the County has developed its own Climate Change Action Plan, and convenes both a countywide Climate Change Task Force and a Government Operations Work Group to assist in implementing priority actions necessary for climate change preparedness and emissions reductions needed to mitigate future warming and the potential for severe climate disruptions. As a community, we need to be aware of the local impacts of climate change, to understand the vulnerabilities of social systems, natural resources and infrastructure, and to work to develop and implement strategies to adapt and increase our resilience with the goal of reducing risk, avoiding economic losses, and improving community livability and the quality of our natural systems.

## ➔ STRATEGY CCR-1: Mitigate the effects of climate change by reducing greenhouse gas emissions by 2% per year.

Reduction of heat-trapping greenhouse gas (GHG) emissions which cause global temperature rise is necessary to slow and limit the effects of climate change. According to the 2012 Broward County GHG Emissions Inventory, the main source of GHG emissions in Broward County is burning fossil fuels for electricity and transportation. In order to reduce emissions, energy sources must be diversified to include clean renewable energy for electricity and alternative fuels for transportation and the amount of energy consumed in buildings and for transportation must be reduced. The County must pursue regional strategies and participate in and support local efforts to increase energy efficiency and the use of renewables in order to reduce GHG emissions and mitigate the effects of climate change.

Broward County shall promote sustainable energy consumption through efficiency and conservation efforts, expand renewable and alternative energy accessibility, and create incentive programs to encourage the behavioral and operational transition to cleaner energy sources.

### Implementation strategies include:

- Implementing strategies from the Renewable Energy Action Plan, Community Energy Action Plan and the Climate Change Action Plan.
- Implementing the Electric Vehicle Infrastructure Strategy which includes pursuing municipal and public-private partnerships in order to develop an infrastructure network that provides public access to alternative fuels and EV charging.
- Reducing energy intensity of county buildings by at least 20% by 2025 through the Better Buildings Challenge and energy retrofits.
- Integrating transportation and land use decisions with emphasis on multi-modal transportation.
- Increasing the abundance of renewable energy projects, investments, and infrastructure across the County consistent with the County's support for a 20% renewable energy portfolio by 2030 through public-private partnerships, encouraging financing options and County investment in solar projects.

- Decreasing fuel consumption by 10% by 2020 by improving and integrating multi-modal transportation and land uses that encourage a reduction in single occupancy vehicle trips and GHG emissions, encourage an increase in walking, bicycling and transit trips and provide affordable housing proximate to urban work centers and transit.

## ➔ STRATEGY CCR-2: Increase the resilience of our community to the effects of climate change.

Climate change, including sea level rise and severe storms, has the potential to fundamentally impact Broward County's beaches, coastal and inland communities, water supplies, natural systems, critical infrastructure and its economic core. An increase of 3 to 5 inches of sea level rise is expected locally by 2030 and up to 2 3.3 feet by 2060 2070. As a community we need to plan and prepare for the impacts of sea level rise and other climate impacts and invest in resilient critical infrastructure, to sustain commerce, services, and natural resources vital to the health of our community and economy. Broward County shall consider and prepare for the following impacts in the planning and design of projects and operations of community services: severe tropical storms, temperature extremes, severe wet and dry seasons, sea level rise along the coast leading to coastal and inland flooding and rising groundwater levels, increased coastal erosion and increased stress and pressure on natural systems.

### Implementation strategies include:

- Requiring all land use and planning decisions within the Priority Planning Areas to consider and effectively address future climate predictions for a 50-year planning horizon, including 2 feet of sea level rise.
- Designating Adaptation Action Areas to identify areas vulnerable to coastal flooding, implement adaptation policies, and enhance and prioritize the funding of infrastructure adaptation projects.
- Applying the unified sea level rise projection for Southeast Florida when considering land use (including areas of potential population growth, natural system restoration, and infrastructure adaptation) and long-term functionality of appurtenant infrastructure, especially water management, drainage, water supply and water treatment systems, both coastal and inland.

Note: Highlighted/underlined words are proposed additions and highlighted/struck through words are proposed deletions.

- Delineating anticipated habitat transition zones from climate impacted areas and expand zones through land use changes to protect environmentally-sensitive greenways and reserves for migrating species.
- Furthering the integration of green infrastructure and natural systems into the urban environment to increase resilience to future climate change impacts.
- Preserving and protecting the County's natural shoreline with an emphasis on the expansion and preservation of sand dunes, protection of beaches from armoring and the encroachment of development, and conservation of our coral reefs.
- In coordination with municipalities, adopting land use regulations to limit development and redevelopment in areas particularly vulnerable to flooding due to sea level rise, stormwater inundation, and other impacts of climate change.
- Using a green infrastructure map series to achieve community equity in the integrated use of green infrastructure as part of community resiliency strategies, including tree canopy coverage, presence of solar projects infrastructure, access to fresh food, etc.

### ➔ STRATEGY CCR-3: Maintain adequate water supply through efficiency and conservation efforts and increase resilience of natural systems through water resource management.

Saltwater intrusion has contaminated the coastal edge of the Biscayne Aquifer that is the primary source of drinking water in Broward County. While a number of factors have contributed to the inland migration of the saltwater front, sea level rise has accelerated the rate of intrusion and is predicted to drive the front further inland in the coming decades. Saltwater intrusion is anticipated to reduce coastal wellfield capacity 40% by 2060. Broward County shall preserve, protect and enhance the sustainability of County water resources.

#### Implementation strategies include:

- Ensuring existing water resources are protected and remain available through conservation and sustainable management, especially improved surface water storage, redistribution and aquifer recharge.



- Preserving capacity by diversifying source alternatives, with an emphasis on the expansion of reclaimed water projects, systems, and infrastructure.
- Preserving green space and consideration of land use in areas of potential regionalization and relocation of wellfields.
- Balancing the water needs of public consumers and natural systems. Affording space for surface water storage to accommodate projected rainfall, tidal flooding and sea level and groundwater level rise.
- Supporting regional water supply and conservation projects such as the C-51 reservoir project and the expansion of a countywide water reuse network.

Supporting policy and implementation guidelines for the outlined strategies are included in Sections 2 and/or 3 of the Broward County Land Use Plan, and, as may be appropriate, the County's Comprehensive Plan.