

C4 G REFERRAL TO THE LAND USE AND SUSTAINABILITY COMMITTEE TO
DISCUSS INCORPORATION OF RESILIENCY MEASURES IN CITY PARKS AND
GREENSPACE PROJECTS.

Applicable Area:

MIAMI BEACH

COMMISSION MEMORANDUM

TO: Honorable Mayor and Members of the City Commission
FROM: Commissioner Tanya K. Bhatt
DATE: May 21, 2025
TITLE: REFERRAL TO THE LAND USE AND SUSTAINABILITY COMMITTEE TO DISCUSS INCORPORATION OF RESILIENCY MEASURES IN CITY PARKS AND GREENSPACE PROJECTS.

RECOMMENDATION

BACKGROUND/HISTORY

ANALYSIS

Please place on the May 21, 2025 agenda a referral to the Land Use and Sustainability Committee to discuss the integration of resiliency features into new and existing City park and greenspace projects. As our community continues to face the increasing impacts of climate change and sea level rise, it is critical that our public spaces be designed and improved with resiliency and sustainability at the forefront.

The City's Environment and Sustainability Department is currently in the process of developing a guidance document (the "E&S Guidance Document") for use during its internal review of City projects. This document, which is in draft form and attached to this referral, consolidates applicable City Commission resolutions, ordinances, policies, and best practices relevant to resilience and sustainability in capital projects.

I would like for the Committee hear a presentation from the Environment and Sustainability Department on the E&S Guidance Document and discuss opportunities for incorporating the recommended resiliency features into City park and greenspace initiatives. I also request that staff provide any recommendations for potential legislative action that would support or codify these best practices to ensure consistency across current and future projects.

This discussion will help reinforce our City's ongoing commitment to building a resilient, adaptive, and environmentally responsible Miami Beach.

FISCAL IMPACT STATEMENT

n/a

Does this Ordinance require a Business Impact Estimate?
(FOR ORDINANCES ONLY)

If applicable, the Business Impact Estimate (BIE) was published on:
See BIE at: <https://www.miamibeachfl.gov/city-hall/city-clerk/meeting-notices/>

FINANCIAL INFORMATION

CONCLUSION

Applicable Area

Citywide

Is this a "Residents Right to Know" item, pursuant to City Code Section 2-17?

Yes

Is this item related to a G.O. Bond Project?

No

Was this Agenda Item initially requested by a lobbyist which, as defined in Code Sec. 2-481, includes a principal engaged in lobbying? No

If so, specify the name of lobbyist(s) and principal(s):

Department

Office of Commissioner Tanya K. Bhatt

Sponsor(s)

Co-sponsor(s)

Condensed Title

Ref: LUSC - Incorporation of Resiliency Measures in City Parks and Greenspace Projects.
(Bhatt)

Previous Action (For City Clerk Use Only)

RESILIENCE & SUSTAINABILITY GUIDANCE FOR: PARKS

The project should incorporate resilience and sustainability elements to align with the City's goal to design, build, and operate more efficient, environmentally responsible, healthy and resilient parks that reduce flood risk and conserve and restore environmental resources. The project should incorporate the following elements, as applicable and feasible.

Resilience: Flood Risk Reduction/ Elevation/ Sea Level Rise/ Heat

- Draft Sea Level Rise Adaptation Plan (Pending CC approval)
- Resolution 2024-33381 Blue Green Strategy for NIPs, Parks and Stormwater over \$10M
- Resolution 2020-31316- Incorporate blue-green stormwater management practices, per the Blue-Green Stormwater Infrastructure Concept Plan.
- Resilience code (2023)
- Ord 2022-4482 Ch 54 Floods
- Ordinance 2019-4252 Urban Heat Island Ordinance
- 2040 Miami Beach Comprehensive Plan (Sea Level Rise Adaptation)

Energy Efficiency and Renewable Energy

- Analyze feasibility of roof-top solar, solar carports, and other types of solar installations.
- LED and Solar powered lighting features for outdoor lighting;
- Choose wildlife friendly fully shielded fixtures that emit no light upward;
- Use "warm-white" or filtered LEDs (CCT < 3,000 K; S/P ratio < 1.2) to minimize blue emission;
- Look for products with adaptive controls like dimmers, timers, and motion sensors;
- Recommend lighting poles with solar, to power the lights during the day;
- Consider turtle-friendly/dark-sky recommended lighting, this is **required** for lighting that can be seen from the beach (Ordinance 2024-4652);
- Consider the use of lighting efficiency controls;
- For bathrooms, use energy-Efficient Vent Fan (ENERGY STAR);

Water Efficiency

- Encourage water efficiency and resource conservation in restrooms through the following:
 - WaterSense Labeled and/or ultra low-flow toilets;
 - WaterSense labeled and/or ultra low-flow bathroom sink faucets and accessories;
 - Motion Sensor Faucets;
 - Gray water (from sinks) to supply water for toilets and to irrigate landscaping;
- Install water bottle filling stations as per Parks specs;

Waste Reduction/ Litter

- Ordinance 2024-4590: Balloons prohibited at public marinas, marine facilities, parks and beaches.
- Ordinance 2022-4509: Smoking cigarettes in public parks or on public beaches is prohibited. Cigarette butts are by far the most common item polluting our parks, beaches and waterways and contain microplastics.

- Resolution 2019-31017: Limits on plastics at beachfront concessions. Requires all beachfront concessionaires to utilize 100% reusable wares, including tableware, serving dishes/containers, condiments, plates, bowls, hot and cold cups, and flatware. This does not apply for takeout.
- Ordinance 2019-4295: City-wide plastic straw and stirrer ban. Food service providers and stores are prohibited from selling, using, offering for sale or use, or providing beverages with single-use plastic beverage straws and single-use plastic stirrers.
- Ordinance 2017-4068: Extension of polystyrene ban. Unencapsulated expanded polystyrene floating docks, floating platforms, and buoys are prohibited to be used or placed in any of the waters and waterways citywide.
- Ordinance 2015-3962: City-wide polystyrene (Styrofoam) Ban. The sale and use of expanded polystyrene (also known as Styrofoam) is banned within the City and includes: parks, beaches, city-owned facilities, sidewalk cafes, special event permits, city marinas, unencapsulated docks, buoys, platforms, piers and boat ramps.
- A recycling receptacle should be paired with every waste receptacle;
- Trash receptacles should have the following:
 - Larger opening;
 - Clear messaging that reads “waste” or “trash”
 - Distinct color bin from recycling;
- Recycling receptacles should have the following:
 - Specialized lid with a smaller opening(s);
 - Clear messaging that reads “recycling” on top and side of bin;
 - Top and/or bin frame must be blue in color (or distinct color from waste).

Construction Materials

- Incorporate a construction and demolition debris management plan to reuse and/or recycle any demolition materials;
- Incorporate porous pavement/concrete where applicable;
- Consider the use of recycled materials for furnishing and playground structures;
- Consider Low and no-VOC products for all painting;
- For construction of bathrooms, consider use of recycled tiles and white or light colors for the roof;
- Consider the use of low-carbon or carbon neutral materials, such as concrete.

Green Infrastructure and Landscaping

- Ordinance 2021-4392- Fertilizer ban May 15th through November 1st (note we observe the County’s May 15 date even though ours is June 1 as our was adopted first);
- Follow FL Friendly landscaping guidelines and prioritize native FL species for trees and (xeriscaping) landscaping;
- Per Resolution 2017-29748, incorporate best management practices for landscaping by including the use of the Florida-friendly Landscaping Guide, replacing sod with a groundcover that is Florida-friendly, and often requires less water, fertilizer, and pesticide use;
- For construction of playing fields, non-toxic and/or low petroleum products are recommended for synthetic turfs/grass;

- Consider potential non-potable supply sources, such as captured rainwater or graywater from flow fixtures for irrigation.

Transportation and Mobility

- Recommend bike parking be provided and bike racks that follow city standards;
- Comply with EV charging and EV parking requirements, per Ordinance 2024-4579.

DRAFT