

MIAMI BEACH

Sustainability Resiliency Committee Meeting

Commission Chamber

February 21, 2018 - 12:00 PM

Commissioner Micky Steinberg, Chair

Commissioner John Elizabeth Aleman, Vice-Chair

Commissioner Ricky Arriola, Member

Commissioner Mark Samuelian, Alternate

Elizabeth Wheaton, Liaison

ACTION ITEMS

1. DISCUSSION ON THE SEAWALL COALITION MEMBERSHIP FOR THE CITY OF MIAMI BEACH
City Manager's Office

Susanne Torriente, Assistant City Manager/ Chief Resiliency Officer

Item C4H - January 17, 2018 Commission Meeting

DISCUSSION ITEMS

2. REVIEW OF PLANNED AND IN PROGRESS RESILIENCY PROJECTS

Commissioner Mark Samuelian

Susanne Torriente, Assistant City Manager/ Chief Resiliency Officer

Item C4Y - December 13, 2017 Commission Meeting

3. REFERRAL TO THE SUSTAINABILITY AND RESILIENCY COMMITTEE REGARDING PARKING INCENTIVES FOR "SMARTWAY" (ILEV - INHERENTLY LOW EMISSION) VEHICLES

Commissioner Micky Steinberg

Saul Francis, Parking Department

Item C4I - January 17, 2018 Commission Meeting

4. DISCUSSION ON ENSURING MIAMI BEACH SPECIAL EVENTS ADHERE TO ENVIRONMENTALLY FRIENDLY GUIDELINES AND PROCEDURES.

Commissioner Michael Gongora

Eva Silverstein, Tourism, Culture, and Economic Development Director

Item C4J - January 17, 2018 Commission Meeting

5. DISCUSSION REGARDING THE ORCHARD PARK NEIGHBORHOOD TEMPORARY PUMPS

Commissioner John Elizabeth Aleman

Roy Coley, Public Works Assistant Director/Infrastructure Director

Item R9D - January 17, 2018 Commission Meeting

6. DISCUSS THE FLOODING IN THE SUNSET HARBOUR NEIGHBORHOOD AND WHAT THE CITY IS DOING TO RECTIFY THE SITUATION

Commissioner Kristen Rosen-Gonzalez

Roy Coley, Public Works Assistant Director/Infrastructure Director

Item R9M - January 17, 2018 Commission Meeting

REPORTS

7. RESILIENCY STRATEGY

Amy Knowles, Deputy Resiliency Officer

8. SUSTAINABILITY COMMITTEE

Dave Doebler, Chair

ADDENDUM

9. DISCUSSION TO REVIEW THE CITY'S STORMWATER RESILIENCE PROGRAM.

Amy Knowles, Deputy Resiliency Officer

MIAMI BEACH

Item 1.
COMMITTEE MEMORANDUM

TO: Sustainability Resiliency Committee Meeting

FROM: Jimmy L. Morales, City Manager

DATE: February 21, 2018

SUBJECT: **DISCUSSION ON THE SEAWALL COALITION MEMBERSHIP FOR THE CITY OF MIAMI BEACH**

RESPONSIBLE DEPARTMENT:

Susanne Torriente, Assistant City Manager/ Chief Resiliency Officer

LEGISLATIVE TRACKING:

Item C4H - January 17, 2018 Commission Meeting

SPONSORED:

City Manager's Office

BACKGROUND:

At the City Commission meeting on January 17, 2018, the Mayor and City Commission referred a discussion to the Sustainability and Resiliency Committee (SRC) regarding the seawall coalition membership for the City of Miami Beach. This item was sponsored by the Office of City Manager.

Analysis

The Seawall Coalition is a nonpartisan group of elected officials, military groups, businesses, and local leaders that have come together to unlock national solutions to sea level rise and flooding that support coastal and riverfront communities and protect our nation's residents, economy, and military installations.

The Seawall Coalition advocates for practical national solutions to serve our communities. They support policies that strengthen the economy, invest in coastal communities, and safeguard the national security. The Coalition will support states and communities that are investing to make their infrastructure resilient to sea level rise by creating a source of dedicated federal funding and incentives. This could include adaptation trust funds, a revolving loan fund, tax breaks and incentives, and other programs that help drive investment in planning and infrastructure to prevent flood damage.

The Coalition is a social welfare 501(c)(4) non-profit, allowed under the tax code to engage in politics, unlimited lobbying and promotion of candidates, provided that these efforts dovetail with the purpose of the organization, without any legal obligation to disclose their donors.

The Coalition met with the Mayor and staff in December and is requesting the City of Miami Beach to become a member. Attached is a draft resolution that the Coalition prepared for cities to review and adopt. Representatives of the Coalition will attend the SRC meeting and further discuss what the membership entails.

CONCLUSION:

The following is presented to the members of the Sustainability and Resiliency Committee for discussion and further direction.

ATTACHMENTS:

Description	Type
□ Attachment A: Draft Resolution	Resolution
□ Attachment B: Seawall Coalition Mission and Policies	Other

AN ORDINANCE OF THE CITY COMMISSION OF XXXX PROVIDING FOR THE CITY OF XXXXXX TO BECOME A MEMBER OF THE SEAWALL COALITION

WHEREAS, flooding during king tides is already a costly nuisance and a problem that if unaddressed will grow worse as sea levels continue to rise, and

WHEREAS, sea level rise has risen 8 inches since 1950 and its speed has increased threefold in recent years, with scientific projections forecasting another 8 inches of sea level rise in the next 20 years, and

WHEREAS, sea level rise of just 4 inches in the last 10 years has increased flooding state-wide by 400%, and

WHEREAS, sea level rise poses a unique threat to all Florida given the limestone bedrock beneath much of the state which allows rising sea water to infiltrate sewage systems and threaten groundwater supplies via salt water intrusion, and

WHEREAS, proactively investing to prevent flooding is a wiser use of resources than spending on flooding recovery, as exemplified by FEMA research showing that \$1 of spent on disaster prevention saves \$4 in recovery costs, and

WHEREAS, national coordination and support are necessary for coastal towns to fully address the challenge of sea level rise and flooding, and the Seawall Coalition provides a platform advocating for national solutions to sea level rise and flooding that invest in and protect our coastal communities, and

WHEREAS, the Seawall Coalition is a forum for best practices and support in developing local and state-level responses to sea level rise and flooding that will enhance the City's sea level rise effort, and

WHEREAS, sea level rise and flooding are important issues that our residents deserve to understand and the Seawall Coalition provides opportunities and tools to communicate with residents on sea level rise challenges and solutions, and

WHEREAS, joining the Seawall Coalition will aid the City's efforts to protect against flooding without requiring any financial support or dues from the City Commission, and

WHEREAS, [reference existing flood prevention and sea level rise work done by the city]

WHEREAS, the City Commission finds that joining the Seawall Coalition will promote the welfare of City residents and ensure the prosperity of the City economy by accelerating solutions to sea level rise and flooding, and

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF XXXXXX:

The City of XXXX recognizes the need to advance national solutions to sea level rise and flooding and will work as a member of the Seawall Coalition to safeguard the welfare of the City's residents.



NATIONAL SOLUTIONS TO SEA LEVEL RISE AND FLOODING

Who we are

The Seawall Coalition is a nonpartisan group of elected officials, military groups, businesses, and local leaders that have come together to unlock national solutions to sea level rise and flooding that support coastal and riverfront communities and protect our nation's residents, economy, and military installations.

Our mission

Protecting our coasts from sea level rise is a national issue that must be met with national solutions - it is vitally important to our country's citizen well-being, economic strength, and security. Our coastal communities are the backbone of our country, home to over 125 million Americans, 37 of the top 50 largest ports in the country, and 18 military installations currently at risk from sea level rise.

With effective sea level rise planning our coastal communities can adapt and thrive. Investing in adaptation planning and projects can protect the ports, highways, and runways that drive our economy, creating jobs and economic opportunities for our local communities. But we must act now.

The Seawall Coalition advocates for practical national solutions to serve our communities. We support policies that strengthen our economy, invest in our coastal communities, and safeguard our national security.



Our platform



The United States is a maritime nation and our national economy relies on our coastal ports, highways, and other infrastructure that is at risk from sea level rise. We will support states and communities that are investing to make their infrastructure resilient to sea level rise by creating a source of dedicated federal funding and incentives. This could include adaptation trust funds, a revolving loan fund, tax breaks and incentives, and other programs that help drive investment in planning and infrastructure to prevent flood damage.

These investments help ensure coastal tourism and property values remain strong while also spurring innovation and creating jobs. Jobs constructing infrastructure will create local employment opportunities that cannot be outsourced. As our communities adapt to sea level rise and flooding, we'll also be able to build new businesses and innovation that we can export, similar to how the Netherlands currently gains about 2% of its GDP through water-related products and services. With smart investment, America can take a leadership role in creating sea level rise solutions and bring this innovation to others around the globe.

Policies

- ▶ Support communities investing in adaptation through dedicated federal funding and incentives, which could include adaptation trust funds, revolving loan funds, tax breaks and incentives, and other funding programs
- ▶ Increase innovation grants for research into flood mitigation technology
- ▶ Facilitate the exchange of best practices among coastal communities



When disaster strikes and the national government spends billions to rebuild, we need to build back stronger so our communities can withstand future flooding and do not keep drawing on taxpayer dollars to rebuild again and again. By creating federal standards for rebuilding that take a clear-eyed view of future risk, we can keep our citizens safe and prevent wasteful spending. We can also improve HUD, FEMA, and Small Business Administration (SBA) programs so that they allow and incentivize rebuilding to higher standards.

Policies

- ▶ Create federal resilience standards for rebuilding after hurricanes and flood damage
- ▶ Issue guidance from HUD on how the Community Development Block Grant program can be used to encourage adaptive rebuilding
- ▶ Have FEMA authorize modifications and mitigation measures to support adaptation of damaged facilities with Public Assistance funding
- ▶ Promote additional studies that evaluate high-risk areas to identify and authorize projects that will be ready for immediate federal funding under emergency congressional authorizations
- ▶ Allow the SBA Disaster Loan Program to incentivize resilient construction



Many of our military facilities currently have tidal flooding 50 times per year, and over a dozen of our military installations are on track to face flooding 100 times per year by 2050. This puts our national security and military readiness at risk. Some installations are already taking action to protect against sea level rise, but we need coordinated national action to ensure all our military installations are prepared for the future. We need the Department of Defense (DOD) to strategically prioritize adaptation plans for our installations and study the effects of sea level rise on our military readiness. Even when military installations are prepared, flooded roads leading to them can hinder servicepeople from reaching their installations to conduct their missions. The military needs more flexibility to invest in projects outside our installations to make sure servicepeople can deploy quickly to keep our country safe.

Policies

- ▶ Give the DOD the needed authority to assess the impact of sea level rise and flooding on our military installations, create adaptation plans and commence critical projects to protect our installations and maintain readiness
- ▶ Allow military services the authority to access their mission and operational funds to address sea level rise and flooding issues that directly affect their mission (i.e. roads onto installations, power grids)

Member benefits



A strong platform to advocate as part of a nonpartisan group for national solutions to sea level rise and flooding that invest in and protect our coastal communities

A forum for best practices and support in developing local and state-level responses to sea level rise flooding



Opportunities and tools to communicate with residents on sea level rise challenges and solutions, including media opportunities if you're interested

Learn more at seawallcoalition.org

MIAMI BEACH

Item 2.
COMMITTEE MEMORANDUM

TO: Sustainability Resiliency Committee Meeting

FROM: Jimmy L. Morales, City Manager

DATE: February 21, 2018

SUBJECT: **REVIEW OF PLANNED AND IN PROGRESS RESILIENCY PROJECTS.**

RESPONSIBLE DEPARTMENT:

Susanne Torriente, Assistant City Manager/ Chief Resiliency Officer

LEGISLATIVE TRACKING:

Item C4Y - December 13, 2017 Commission Meeting

SPONSORED:

Commissioner Mark Samuelian

Analysis

Verbal Report at Committee Meeting.

ATTACHMENTS:

Description

Type

No Attachments Available

MIAMI BEACH

Item 3.

COMMITTEE MEMORANDUM

TO: Sustainability Resiliency Committee Meeting

FROM: Jimmy L. Morales, City Manager

DATE: February 21, 2018

SUBJECT: **REFERRAL TO THE SUSTAINABILITY AND RESILIENCY COMMITTEE
REGARDING PARKING INCENTIVES FOR "SMARTWAY" (ILEV - INHERENTLY
LOW EMISSION) VEHICLES**

RESPONSIBLE DEPARTMENT:

Saul Francis, Parking Department

LEGISLATIVE TRACKING:

Item C4I - January 17, 2018 Commission Meeting

SPONSORED:

Commissioner Micky Steinberg

BACKGROUND:

Please refer to Consent Agenda Item No. C4I (attached) from the January 17, 2018, City Commission meeting.

Analysis

CONCLUSION:

ATTACHMENTS:

Description	Type
□ Commission Memo ILEV Vehicles	Memo

MIAMI BEACH

COMMISSION MEMORANDUM

TO: Honorable Mayor and Members of the City Commission
FROM: Jimmy L. Morales, City Manager
DATE: January 17, 2018

SUBJECT: REFERRAL TO THE SUSTAINABILITY AND RESILIENCY COMMITTEE REGARDING PARKING INCENTIVES FOR "SMARTWAY" (ILEV - INHERENTLY LOW EMISSION) VEHICLES.

RECOMMENDATION

The Administration recommends the Mayor and City Commission approve a referral to the Sustainability and Resiliency Committee (SRC) to discuss parking incentives for "Smartway" vehicles.

ANALYSIS

Since 2007, the City has developed and codified parking incentives for ILEV (Inherently Low Emission Vehicles) which are classified by the EPA (Environmental Protection Agency) as "Smartway" vehicles. These are as follows:

Sec. 106-55. - Parking rates, fees, and penalties; exceptions.

(n) *Smartway vehicles incentive.* The Smartway program will use the state ILEV list; EPA (Environmental Protection Agency) "Smartway" designation; and allow all street legal electric vehicles to qualify for participation in the program. Incentives to be offered to qualified and registered vehicle owners include:

- (1) Monthly parking permit holders for all facilities will be afforded a 50-percent discount on the monthly rate.
- (2) Residential permit holder in all designated zones shall receive a 50-percent savings on either their annual or semi-annual residential permit.
- (3) Five hundred city-wide parking decals, honored at metered spaces only, shall be available only to state-registered Smartway vehicles; vehicles receiving an EPA (Environmental Protection Agency) "Smartway" designation; and all street legal electric vehicles on a first-come, first-served basis. The cost of the Smartway city-wide decal is \$100.00 per year. (4) Two percent of the parking spaces at the 42nd Street Municipal Parking garage may be designated as "Smartway Vehicle Parking Only" for use by recognized Smartway vehicles. One percent of the parking spaces at the 7th Street garage and 13th Street garage may be designated as "Smartway Vehicle Parking Only" for use by recognized Smartway vehicles. Notwithstanding the preceding sentence, the city manager or his designee, who shall be the city's parking director, reserves the right, in his reasonable business judgment and discretion, to temporarily suspend the aforesaid "Smartway Vehicle Parking Only" during special events in order to ensure maximum utilization of all parking spaces.
- (4) Two percent of the parking spaces at the 42nd Street Municipal Parking garage may be designated as "Smartway Vehicle Parking Only" for use by recognized Smartway vehicles. One percent of the parking spaces at the 7th Street garage and 13th Street garage may be designated as "Smartway Vehicle Parking Only" for use by recognized Smartway vehicles. Notwithstanding the preceding sentence, the city manager or his designee, who shall be the city's parking director,

reserves the right, in his reasonable business judgment and discretion, to temporarily suspend the aforestated "Smartway Vehicle Parking Only" during special events in order to ensure maximum utilization of all parking spaces.

(o) *Resident scooter and motorcycle permits.* Annual scooter and motorcycle parking permits are available for a fee of \$100.00 per scooter or motorcycle for Miami Beach residents who are registered with the State of Florida as the scooter or motorcycle owner. The permit will be honored at all designated scooter and motorcycle municipal metered parking spaces.

Currently, the incentive allotting 500 citywide parking permits at \$100, annually (see No. 3 above) has been triggered. In the interim, a waiting list has been established and if the number of users drops below 500 (currently at 503 as of January 2, 2018), those on the waiting list will be able to participate, accordingly.

The Administration is seeking direction regarding: (1) increasing the allotment beyond 500 citywide parking permits in order to continue providing this incentive; (2) if approved, establishing new thresholds triggering future reviews and adjustments; and (3) potentially increase the annual citywide parking permit fee.

CONCLUSION

The Administration recommends the Mayor and City Commission approve a referral to the Sustainability and Resiliency Committee (SRC) to discuss parking incentives for "Smartway" vehicles.

Legislative Tracking

Parking

Sponsor

Commissioner Micky Steinberg

MIAMI BEACH

Item 4. **COMMITTEE MEMORANDUM**

TO: Sustainability Resiliency Committee Meeting

FROM: Jimmy L. Morales, City Manager

DATE: February 21, 2018

SUBJECT: **DISCUSSION ON ENSURING MIAMI BEACH SPECIAL EVENTS ADHERE TO ENVIRONMENTALLY FRIENDLY GUIDELINES AND PROCEDURES.**

RESPONSIBLE DEPARTMENT:

Eva Silverstein, Tourism, Culture, and Economic Development Director

LEGISLATIVE TRACKING:

Item C4J - January 17, 2018 Commission Meeting

SPONSORED:

Commissioner Michael Gongora

BACKGROUND:

At the January 17, 2018 Commission Meeting, an item was referred to the Sustainability and Resiliency Committee to discuss special events adhering to environmentally friendly procedures.

Analysis

As of January 2018, Tourism, Culture and Economic Development (TCED) has begun the process of updating our special event permitting guidelines -- which have not seen a holistic update since 2003. As part of this process, TCED and the Environment & Sustainability Department have already begun identifying opportunities to enhance the environmental protections and sustainability requirements within the special event permit requirements, including enhancing green purchasing standards. One notable early recommendation is streamline the permit application process through submitting applications in the Citizen Action Portal. This will allow multiple departments to review the application online, reducing the number of in person approvals required by the applicant.

Current special event permitting procedures require all event producers to adhere to the following environmental standards:

1. Event producers must present an approved comprehensive sanitation and recycling plan inclusive of all trash removal and single stream recycling.
2. Required sand sifting and restoration of any beach, park, sod or public space used by the event in accordance with state and county guidelines for sea turtle protection.
3. Styrofoam, glass, plastic straws, and flip top bottles are all prohibited for all events on public property.
4. Prohibited activities include any trenching or excavating on the beach, in city parks or any other public right of way locations
5. Events are required to put in place protective measures to avoid any type of leakage, seepage of liquids or chemicals, debris, or any foreign substance. Secondary containment is required when there presents a potential for spills.

Should TCED encounter a violation of any permitting requirements, the protocol is to immediately inform the event producer; suggest corrective measures and mitigation; and if needed, inform Code Compliance to assess whether a violation is warranted. All special events are monitored by the TCED field monitors during load-in, event duration, and load-out to ensure compliance with all permit requirements. Additionally, community outreach sessions are held prior to each event permit approval to discuss in great detail the impacts of the event on the city, and to underline our city's ethos of environmental responsibility.

Each special event permit is reviewed by all city departments, including the Environment & Sustainability Department.

CONCLUSION:

TCED is working with all relevant city departments on a comprehensive update to the special event permitting process and event guidelines. Once the draft special event guidelines are complete, it will be brought before the Commission for review and approval.

ATTACHMENTS:

Description

Type

No Attachments Available

MIAMI BEACH

Item 5.

COMMITTEE MEMORANDUM

TO: Sustainability Resiliency Committee Meeting

FROM: Jimmy L. Morales, City Manager

DATE: February 21, 2018

SUBJECT: **DISCUSSION REGARDING THE ORCHARD PARK NEIGHBORHOOD
TEMPORARY PUMPS**

RESPONSIBLE DEPARTMENT:

Roy Coley, Public Works Assistant Director/Infrastructure Director

LEGISLATIVE TRACKING:

Item R9D - January 17, 2018 Commission Meeting

SPONSORED:

Commissioner John Elizabeth Aleman

Analysis

Verbal Report at Committee Meeting

ATTACHMENTS:

Description

Type

No Attachments Available

MIAMI BEACH

Item 6.

COMMITTEE MEMORANDUM

TO: Sustainability Resiliency Committee Meeting

FROM: Jimmy L. Morales, City Manager

DATE: February 21, 2018

SUBJECT: **DISCUSS THE FLOODING IN THE SUNSET HARBOUR NEIGHBORHOOD AND
WHAT THE CITY IS DOING TO RECTIFY THE SITUATION**

RESPONSIBLE DEPARTMENT:

Roy Coley, Public Works Assistant Director/Infrastructure Director

LEGISLATIVE TRACKING:

Item R9M - January 17, 2018 Commission Meeting

SPONSORED:

Commissioner Kristen Rosen-Gonzalez

Analysis

Verbal Report at Committee Meeting

ATTACHMENTS:

Description

Type

No Attachments Available

MIAMI BEACH

Item 7.

COMMITTEE MEMORANDUM

TO: Sustainability and Resiliency Committee

FROM: Jimmy L. Morales, City Manager

DATE: February 21, 2018

SUBJECT: **RESILIENCY STRATEGY**

RESPONSIBLE DEPARTMENT:

Amy Knowles, Deputy Resiliency Officer

Analysis

Verbal Report at Committee Meeting.

ATTACHMENTS:

Description

Type

No Attachments Available

MIAMI BEACH

Item 8.

COMMITTEE MEMORANDUM

TO: Sustainability and Resiliency Committee

FROM: Jimmy L. Morales, City Manager

DATE: February 21, 2018

SUBJECT: **SUSTAINABILITY COMMITTEE**

RESPONSIBLE DEPARTMENT:

Dave Doeblen, Chair

Analysis

Verbal report of the January 30, 2018 Sustainability Committee meeting.

ATTACHMENTS:

	Description	Type
□	Attachment: January 30 2018 Minutes	Other



City of Miami Beach, 1700 Convention Center Drive, Miami Beach, Florida 33139, www.miamibeachfl.gov

Sustainability Committee Chairperson

David Doeblar – Appointed by Commissioner Micky Steinberg

Members of the Sustainability Committee

Jeremy Waks- Appointed by Mayor Dan Gelber

Mohammed Islam - Appointed by Commissioner Mark Samuelian

Luiz Rodrigues- Appointed by Commissioner Michael Góngora

Richard Conlin – Appointed by Commissioner Kristen Rosen-Gonzalez

Mike Gibaldi - Appointed by Commissioner Ricky Arriola

Max Litt - Appointed by Commissioner John Elizabeth Alemán

DATE: January 30, 2018

SUBJECT: **Minutes of the January 30, 2018 Sustainability Committee Meeting**

A meeting of the Sustainability Committee has been scheduled for Tuesday, January 30, 2018 at 3:00 p.m. in the City Manager's Large Conference Room, 4th Floor, City Hall.

The attendees were as follows: Dave Doeblar, Jeremy Waks, Mohammed Islam, Luiz Rodrigues, Richard Conlin, Mike Gibaldi, and Max Litt

City Staff: Commissioner Mark Samuelian; Elizabeth Wheaton, Environment and Sustainability Director, Nick Kallergis, Senior Assistant City Attorney; Elias Gonzalez, Aid to Commissioner Samuelian; Flavia Tonioli, Sustainability Manager; Yanira Pineda, Sustainability Specialist; and Alyssia Berthoumieux, Sustainability Specialist.

Members Absent:

1. Minutes

- a. Deferred to February Sustainability Committee Meeting.

2. Sustainability Committee Work Plan

a. New Business

- i. Sunshine Law briefing
Nick Kallergis, Senior Assistant City Attorney, provided a brief overview of the responsibilities each member had within the committee which includes understanding the guidelines of Sunshine Law. He explained members were only allowed to communicate within a publicized public forum. Any information intended to be shared with other committee members must be submitted to the liaison for proper distribution.
- ii. Sustainability Committee overview and introductions
Item presented by Yanira Pineda, Sustainability Specialist. Each member of the committee, staff, and guests introduced themselves along with an explanation of their interests and reasons for joining the committee. Commissioner Mark Samuelian invited the committee members to attend the February 21, 2018 Sustainability and Resiliency Committee (SRC) meeting. He explained there were several discussion items on the upcoming agenda which would benefit from community input including water quality, a review of

the storm water program, and how the city can improve its outreach. Ms. Wheaton added that through the 100 Resilient Cities network, the city invited the Urban Land Institute (ULI) to assess the stormwater program. ULI will create a scope to present at SRC for consideration.

Ms. Pineda informed the committee of the attendance requirements. She explained members were only allowed to miss 33% of all scheduled meetings. Those that surpass the allowable absences were subject to be removed from the committee.

- iii. Environment & Sustainability Department overview
Elizabeth Wheaton, Environment & Sustainability Director presented the main programs of the department relating to sustainability. She included several programs and initiatives such as recycling, green building, renewable energy, and environmental resources management.
- iv. Chairperson selection
Dave Doeblen was selected by committee members to serve as chair for the Sustainability Committee.
- v. 2017 Sustainability Committee accomplishments and 2018 discussion items.
Dave Doeblen provided an overview of the accomplishments the previous Sustainability Committee spearheaded in 2017. He then led an activity to determine which topics would be discussed in 2018. It was decided the final agenda would be set during the February meeting.

3. Next Meeting

- a. February 27, 2018.

COMMITTEE MEMORANDUM

TO: Sustainability Resiliency Committee Meeting

FROM: Jimmy L. Morales, City Manager

DATE: February 21, 2018

SUBJECT: **DISCUSSION TO REVIEW THE CITY'S STORMWATER RESILIENCE PROGRAM**

RESPONSIBLE DEPARTMENT:

Amy Knowles, Deputy Resiliency Officer

BACKGROUND:

At the January Sustainability and Resiliency Committee, Commissioner Samuelian introduced an item to review the city's stormwater resilience program. Staff advised that with the support of the Rockefeller Foundation's 100 Resilient Cities (100 RC) Network, the Urban Land Institute (ULI) has been invited to assess the City of Miami Beach's current stormwater management strategy.

Analysis

The Urban Land Institute (ULI) is the oldest and largest network of cross-disciplinary land use and real estate experts in the world dedicated to creating thriving communities around the globe. Their goal is to make cities better places to live for people from all walks of life. ULI is also a 100 RC platform partner, part of a professional network that provides resilience-building tools and services to 100 RC cities. ULI will host an expert panel workshop, led by members from both the local ULI Southeast Florida/Caribbean District Council and the national Urban Resilience program as detailed below and in the attached scope of services (Attachment A).

The City of Miami Beach has made a commitment to invest in aging infrastructure, adapt to sea level rise, and use the best available science to do so. The City is approximately 15% into a 10-year, \$500 to \$600-million multi-year stormwater program, including:

- elevating roads
- upgrading its gravity-based stormwater infrastructure with tidal control valves, pump stations, pipes, and other innovative structures to improve drainage.
- The City is also replacing much of the water, wastewater, and utilities at the same time, as most infrastructure is old and in need of repair.

The City has also updated the land development regulations to incorporate climate adaptation and resilience, such as:

- increasing sea wall height,
- increasing base flood elevation,
- establishing freeboard above FEMA base flood elevation,
- requiring sea level rise and resiliency review criteria for Land Use Boards,

- introducing additional commercial height standards,
- and increasing set-backs and open space for single family homes.

ULI TAP panels are intensive, on-site engagements conducted by volunteer panelists that provide strategic advice to governments and organizations on a wide variety of land use challenges. This four-day event consists of senior practitioners who come from a variety disciplines, such as urban planning, engineering, science, finance, insurance etc. Panelists spend hours in orientation, tours, briefings interviews, and a public listening session. The panel then breaks into teams and prepares a preliminary report of findings.

The final onsite deliverable is a panel presentation to the city at a public meeting (not a public hearing).

The TAP will assess the program through the following questions:

Assessment of existing stormwater program:

- Is the current strategy the right approach to mitigate for flooding caused by tidal and rain events? Is the strategy for elevating roads correct? How can the city improve the stormwater management program, considering engineering strategy, as well as aesthetics, placemaking and harmonization considering the elevation of surrounding private properties?
- What other investments in public infrastructure improvements could occur where construction is already underway?
- How can the City best communicate with residents and stakeholders about potential solutions and costs, and otherwise engage the community in the on-going stormwater management program?

Exploration of future opportunities:

- How can the city ultimately advance climate adaptation in private development, including residential and commercial development? What strategies could be used to involve the private sector and/or public-private partnerships in the design, funding and delivery of stormwater management and flood mitigation strategies?
- How might the city use its upcoming Business Case analysis to advance future climate adaptation/stormwater management decision-making?

Within 60-days of the panel's presentation, ULI will provide the sponsor with a manuscript of the final report for comment.

The 100 Resilient Cities Network, pioneered by the Rockefeller Foundation, is covering all hard costs. The City of Miami Beach is providing in-kind staff to support logistics and planning.

CONCLUSION:

It is recommended that the Sustainability and Resiliency Committee accept the Urban Land Institute Technical Assistance Panel scope of services and place a resolution accepting the same at the March 7, 2018 City Commission meeting.

ATTACHMENTS:

Description	Type
<input type="checkbox"/> Attachment A_ ULI	Other

ULI/100RC/City of Miami Beach Panel

Review of Miami Beach Stormwater Management Program

PANEL SCOPE
February 14th 2018

With the support of the Rockefeller Foundation's 100 Resilient Cities initiative, the Urban Land Institute (ULI) has been invited to assess the City of Miami Beach's current stormwater management strategy. In recent years, the city has embarked on a proactive strategy to address flooding and sea level rise, which has included improving drainage systems, elevating roads and public seawalls and installing pumps to replace the aging gravity stormwater pipes. The Urban Land Institute will host a workshop, led by ULI members from both the local ULI Southeast Florida/Caribbean District Council and the national Urban Resilience program.

The City of Miami Beach has made a commitment to invest in aging infrastructure, adapt to sea level rise, and use the best available science to do so. The City is approximately 15% into a 10-year, \$500 to 600-million multi-year stormwater program, including:

- elevating roads
- upgrading its gravity-based stormwater infrastructure with tidal control valves, pump stations, pipes, and other innovative structures to improve drainage.
- The City is also replacing much of the water, wastewater, and utilities at the same time, as most infrastructure is old and in need of repair.

The stormwater program was initially engineering-led, and began in the most vulnerable areas as design-build contracts to move as quickly as possible to address immediate flooding. The City utilizes the South Florida Climate Change Compact Sea Level Rise Projections for planning purposes, and stormwater system designs will shift from a five to ten-year storm event, and will include planning for power redundancy.

The City has also updated the land use and development code to incorporate climate adaptation and resilience, such as:

- increasing sea wall height,
- increasing base flood elevation,
- establishing a freeboard above FEMA base flood elevation,
- requiring sea level rise and resiliency review criteria for Land Use Boards,
- introducing additional commercial height standards,
- and increasing set-backs and open space for single family homes.

They are also many innovative projects underway, such as green infrastructure, developing design guidelines for historic preservation in the face of sea level rise and climate change, and establishing a pool of contractors with the capacity to develop a business case analysis of the stormwater resilience program.

The city is now soliciting input for the strategy for the program going forward. As a result, the City of Miami Beach has invited ULI (through our membership in the 100 Resilient Cities Network) to address the following questions:

Assessment of existing stormwater program:

- What more, or what else, can the City of Miami Beach do to mitigate against flooding? How can the city improve the stormwater management program, considering engineering strategy, as well as aesthetics, placemaking and harmonization considering the elevation of surrounding private properties?
- What other investments in public infrastructure improvements could occur where construction is already underway?
- How can the City best communicate with residents and stakeholders about potential solutions and costs, and otherwise engage the community in the on-going stormwater management program?

Exploration of future opportunities:

- How can the city ultimately advance climate adaptation in private development, including residential and commercial development? What strategies could be used to involve the private sector and/or public-private partnerships in the design, funding and delivery of stormwater management and flood mitigation strategies?
- How might the city use its upcoming Business Case analysis to advance future climate adaptation/stormwater management decision-making?