BOARD OF COMMISSIONERS REGULAR WORKSHOP
TUESDAY, MAY 16, 2023 – 7:00 PM
120 108TH AVENUE
TREASURE ISLAND, FL 33706

MEETING NOTICE AND AGENDA

- THIS MEETING WILL IMMEDIATELY FOLLOW THE 6 PM CITY COMMISSION MEETING -

A. CITY ATTORNEY AND CITY MANAGER *City Attorney Jennifer Cowan*
City Manager Amy Davis

B. DISCUSSION

B.1 Sustainability & Resiliency Initiatives Presentation
Att A - 2023 Sustainability Presentation.pdf

C. PUBLIC COMMENT

D. ADJOURNMENT

For any person desiring to appeal any decision made by the board, agency, or commission with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based [F.S. 286.0105]. NOTE: Any transcript shall be requested and made by the individual requesting same at his or her own expense. Therefore, a court reporter may be desired or required accordingly.

Any person with a disability who needs any accommodation in order to participate in this proceeding is entitled to assistance at no cost. Please contact the Office of the City Clerk in writing at 120 108th Avenue, Treasure Island, FL, 33706 or by phone at (727) 547-4575 at least two working days prior to the meeting to advise what assistance is needed.

AGENDA ITEM NO. B.1

Item Cover Page

BOARD OF COMMISSIONERS AGENDA ITEM REPORT

DATE:	May 16, 2023
SUBMITTED BY:	Stacy Boyles, Public Works
ITEM TYPE:	Presentations
AGENDA SECTION:	DISCUSSION
SUBJECT:	Sustainability & Resiliency Initiatives Presentation
BACKGROUND:	Previously performed projects will be discussed within the presentation.
POLICY/PURPOSE:	The purpose of this item is to present an update on the City's sustainability and resiliency projects city-wide.
STRATEGIC PLAN RELEVANCE:	The Environmental Sustainability Roadmap Goal 1 is to *"become an environmentally sustainable and resilient community".*
ANALYSIS/DISCUSSION:	Please refer to the presentation attached.
FUNDING:	No funding is requested at this time.
MOTION:	

ATTACHMENTS:
Att A - 2023 Sustainability Presentation.pdf

Treasure Island Sustainability & Resiliency Initiatives

LEED for Cities Certification

Update May 16, 2023

LEED for Cities Staff



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City of Treasure Island

Certification Levels

- **Certified: 40-49 Credits**
- **Silver: 50-59 Credits**
- **Gold: 60-69 Credits**
- **Platinum: 80+ Credits**



Treasure Island

- **Awarded 64 Credits**
- **Achieved Gold Certification**

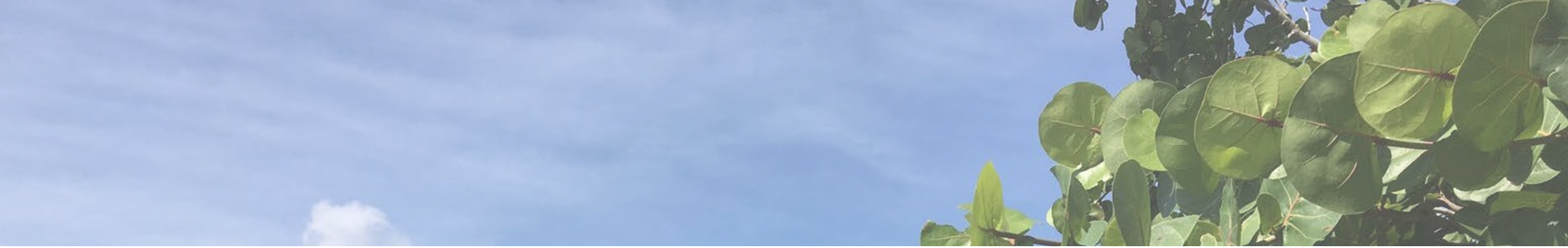
LEED for Cities and Communities: Existing

		Cities	Communities
INTEGRATIVE PROCESS		POSSIBLE: 5	POSSIBLE: 5
Credit	Integrated Planning and Leadership	1	1
Credit	Green Building Policy and Incentives	4	4
NATURAL SYSTEMS AND ECOLOGY		POSSIBLE: 9	POSSIBLE: 9
Prereq	Ecosystem Assessment	REQUIRED	REQUIRED
Credit	Green Spaces	2	2
Credit	Natural Resources Conservation and Restoration	2	2
Credit	Light Pollution Reduction	1	1
Credit	Resilience Planning	4	4
TRANSPORTATION AND LAND USE		POSSIBLE: 15	POSSIBLE: 15
Prereq	Transportation Performance	6	6
Credit	Compact, Mixed Use and Transit Oriented Development	2	2
Credit	Access to Quality Transit	1	1
Credit	Alternative Fuel Vehicles	2	2
Credit	Smart Mobility and Transportation Policy	2	2
Credit	High-Priority Site	2	2
WATER EFFICIENCY		POSSIBLE: 11	POSSIBLE: 11
Prereq	Water Access and Quality	REQUIRED	REQUIRED
Prereq	Water Performance	6	6
Credit	Integrated Water Management	1	1
Credit	Stormwater Management	2	2
Credit	Smart Water Systems	2	2
ENERGY AND GREENHOUSE GAS EMISSIONS		POSSIBLE: 30	POSSIBLE: 30
Prereq	Power Access, Reliability and Resiliency	REQUIRED	REQUIRED
Prereq	Energy and Greenhouse Gas Emissions Performance	14	18
Credit	Energy Efficiency	4	4
Credit	Renewable Energy	6	6
Credit	Low Carbon Economy	4	-
Credit	Grid Harmonization	2	2

		Cities	Communities
MATERIALS AND RESOURCES		POSSIBLE: 10	POSSIBLE: 10
Prereq	Solid Waste Management	REQUIRED	REQUIRED
Prereq	Waste Performance	4	5
Credit	Special Waste Streams Management	1	1
Credit	Responsible Sourcing for Infrastructure	2	2
Credit	Material Recovery	1	-
Credit	Smart Waste Management Systems	2	2
QUALITY OF LIFE		POSSIBLE: 20	POSSIBLE: 20
Prereq	Demographic Assessment	REQUIRED	REQUIRED
Prereq	Quality of Life Performance	6	6
Credit	Trend Improvements	4	4
Credit	Distributional Equity	4	4
Credit	Environmental Justice	1	1
Credit	Housing and Transportation Affordability	2	2
Credit	Civic and Community Engagement	2	2
Credit	Civil and Human Rights	1	1
INNOVATION		POSSIBLE: 6	POSSIBLE: 6
Credit	Innovation	6	6
REGIONAL PRIORITY		POSSIBLE: 4	POSSIBLE: 4
Credit	Regional Priority	4	4
TOTAL		**110**	**110**

40-49 Points	50-59 Points	60-79 Points	80+ Points
CERTIFIED	SILVER	GOLD	PLATINUM

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INTEGRATIVE PROCESS 1

Credit	Integrative Planning and Leadership	1
	Develop comprehensive plan for the city. Assemble cross-departmental team and roadmap for certification.	
Credit	Green Building Policy and Incentives	NA
	Certify existing buildings over 5000 ft² that are owned by the city to LEED standards. Alternatively, provide incentives for LEED or an equivalent building rating system to residents.	



NATURAL SYSTEMS AND ECOLOGY 8

Prereq	Ecosystem Assessment	Y
	Complete an ecosystem assessment including Topography, Soils, Vegetation, Habitat, Hydrology, and Aquatic Ecosystems.	
Credit	Green Spaces	2
	Provide green space assessment showing at least 145 ft² per person and that 70% of homes are within 1/2 mile of a green space. The city has 528 ft² per person and 97.9% of homes are within 1/2 mile of a green space.	
Credit	Natural Resources Conservation and Restoration	2
	Maintain natural resource acreage of at least 861 ft² per capita. The city currently has 7,171.93 ft² per person.	
Credit	Light Pollution Reduction	NA
	Achieve a sky glow score at 4 or below in the Bortle Dark-Sky Scale. Alternatively, 70% of lights in the city should follow CIE 126 -1997 and adopt a lighting ordinance conforming to Section II to VI of the Model Lighting Ordinance.	
Credit	Resilience Planning	4
	Conduct a vulnerability and capacity assessment for climate change risks, natural and man-made hazards, and extreme events. We are participate in the Pinellas County Local Mitigation Strategy and have our own Watershed Management Plan	



TRANSPORTATION AND LAND USE — 8

Prereq	Transportation Performance	6
	Measure the Daily Vehicle Miles Traveled (DVMT) for all passenger vehicles within the city. The city has a value of 14.74 DVMT per person.	
Credit	Compact, Mixed Use and Transit Oriented Development	NA
	Identify compact and complete centers within the city that shows an area within a 1/2 mile walking distance of a central area that shows a strong mix of public transit availability, density, and walkability.	
Credit	Access to Quality Transit	NA
	Provide transit stops that are covered, partially enclosed, have seating and illumination, transit schedule signage, minimize interference with pedestrian flow, and include right of way for public transportation along main roads. Alternatively, ensure bus stations from CCCS have at least 72 weekday and 30 weekend trips.	
Credit	Alternative Fuel Vehicles	NA
	Provide electric vehicle supply equipment in 2% of public parking spaces or show that there are alternative fuel stations for every 1.52 of 10,000 residents.	
Credit	Smart Mobility and Transportation Policy	2
	Adopt four solutions or policies to support a city-wide smart and efficient transportation system. The city qualifies by PSTA providing real time GPS systems to track buses, all buses are equipped with an integrated ticketing system, all paid parking can be paid through a mobile app, and all major roads are synchronized and prioritized to address varying traffic flows.	
Credit	High-Priority Site	NA
	Preserve historic structures and sites and focus growth and development on infill sites and other priority locations.	

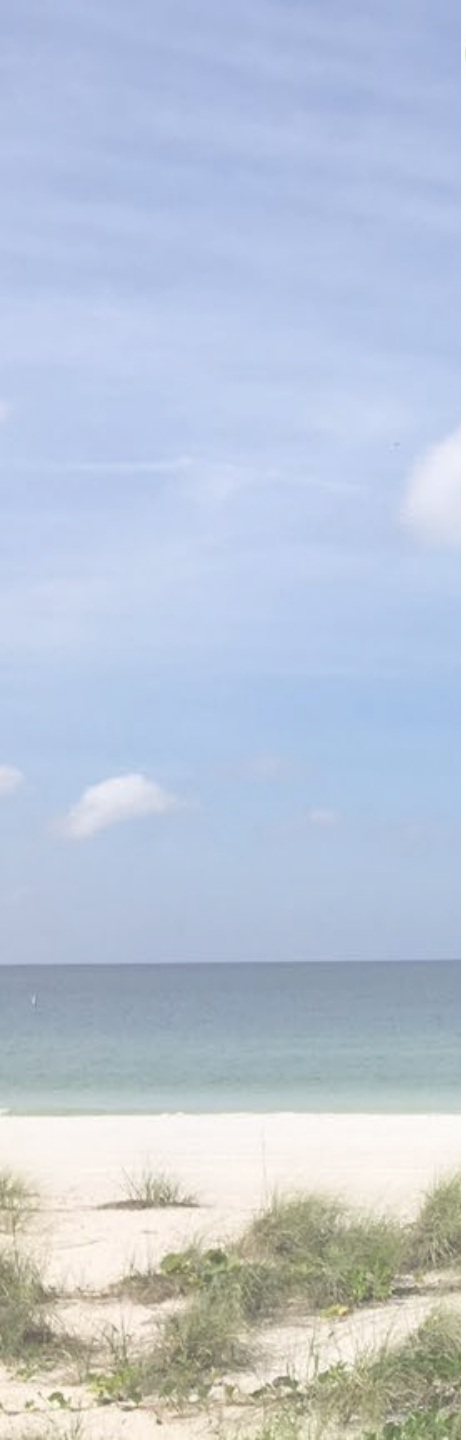


WATER EFFICIENCY 6

Prereq	Water Access and Quality	Y
	Ensure there is 100% coverage of all buildings within the city to the public water supply. Provide documentation showing steps and measure to ensure drinking water, treated wastewater, and stormwater quality are up to the appropriate standards.	
Prereq	Water Performance	6
	Measure the daily per capita domestic water consumption within the city. In 2019 the city maintained a daily domestic water per capita of 52.45 gallons.	
Credit	Integrated Water Management	NA
	Adopt an integrated water management process by developing a water balance statement to report on amount of water withdrawn to the amount entering the system through precipitation, river flow, and other sources. Demonstrate that the ratio of water withdrawals for human use to the total freshwater resources is less than 0.2.	
Credit	Stormwater Management	NA
	Report no flooding incidents in the past 5 years or create a report on all areas within the past 5 years that have experienced flooding. Alternatively, demonstrate the 35% of the land has designated green stormwater infrastructure providing bioretention and infiltration services.	
Credit	Smart Water Systems	NA
	Undertake a water audit once a year or adopt strategies for automation of water supply system for efficient operation and management.	

ENERGY AND GREENHOUSE GAS EMISSIONS 20

Prereq	Power Access, Reliability and Resiliency	Y
	Ensure that 100% of population has access to electricity service. Provide reliability reports and backup power plan for emergency facilities are essential services.	
Prereq	Energy and Greenhouse Gas Emissions Performance	14
	Measure the annual energy consumption and Greenhouse Gas emissions for the city. Treasure Island emitted 4.29MT CO2e per capita per year in 2019.	
Credit	Energy Efficiency	2
	Provide documentation that 70% of all streetlights within the city meet efficiency requirements of ANSI/IESNA RP-8-14 Roadway Lighting. Additionally, lamps should have a minimum luminous efficacy of 100 lumens per watt.	
Credit	Renewable Energy	NA
	Have at least 1% of the city's electrical supply be provided through renewable energy.	
Credit	Low Carbon Economy	2
	Report total Greenhouse Gas emissions by the city per unit economic output measured in GDP produced by the city. The cities GHG intensity was 0.000209 in 2019.	
Credit	Grid Harmonization	2
	Provide dynamic pricing program option (through Duke Energy) for energy customers in order to improve the operation efficiency of the energy system.	



MATERIALS AND RESOURCES 1

Prereq	Solid Waste Management	Y
	Ensure 100% of population is serviced by municipal solid waste. Provide solid waste plan.	
Prereq	Waste Performance	1
	Measure total weight of waste that is generated and total weight of waste that is diverted from landfills. In 2019, 8,874 tons of solid waste were produced by the City and 8.9% was diverted.	
Credit	Special Waste Streams Management	NA
	Measure and report total weight of waste generated under special waste streams and total diverted from landfills. In 2019 Treasure Island diverted single stream recyclables, yard waste, ferrous metals, tires, and hazardous waste.	
Credit	Responsible Sourcing for Infrastructure	NA
	Purchase at least 20% by cost of infrastructure materials that have been extracted and sourced in a responsible manner.	
Credit	Material Recovery	NA
	Collection facilities must equip facilities to collect and store waste products pertaining to the Extended Producer Responsibility Policy in order to transfer them to the manufacturers and mandate a Producers Extended Producer Responsibility policy for companies within the city to encourage refurbishment. remanufacturing, and recycling. Alternatively, conduct a waste stream audit and initiate a dialogue with the top five producers and take appropriate measures for the safe collection, storage, and recycling/reuse of the product.	
Credit	Smart Waste Management Systems	NA
	Adopt smart waste management strategies or solutions to handle a minimum of 20% of waste generated within the city.	

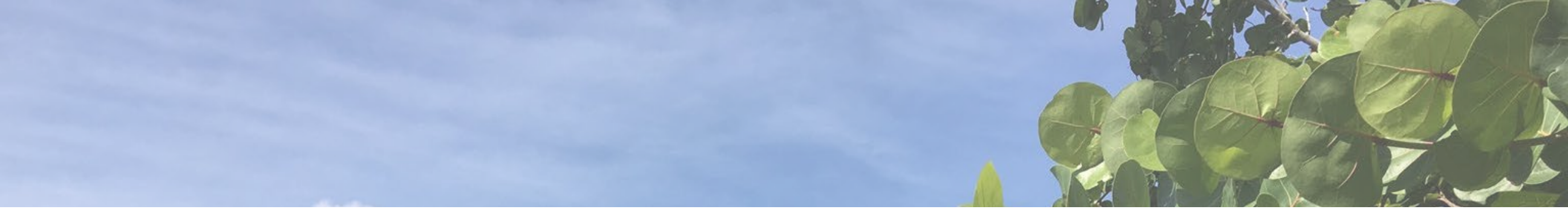


QUALITY OF LIFE

Prereq	Demographic Assessment	Y
	Provide comprehensive demographic assessment showing age groups, racial/ethnic composition, housing market analysis. Develop maps providing breakdowns of selected characteristics including demographic indicators, residential density, and public accommodations and services.	
Prereq	Quality of Life Performance	6
	Measure metrics related to elevating standard of living for all people for education, equitability, prosperity, and health and safety. Treasure Island received a score of 98/100.	
Credit	Trend Improvements	4
	Demonstrate an improvement over time in key metrics pertaining to a person's quality of life. Treasure Island showed an improvement through increasing graduation rate, obtaining a high school degree, reducing violent crime, and reducing unemployment rate.	
Credit	Distributional Equity	NA
	Demonstrate the high school graduation rate for males, females, and sociocultural group is within 5 percentage points of the overall rate of 92.5% for the district.	
Credit	Environmental Justice	NA
	Demonstrate progress in reducing the risks and exposure while showing the values of risk reduction to priority environmental justice conditions for priority areas within the last 5 years.	

10

Credit	Housing and Transportation Affordability	NA
	Demonstrate high quality homelessness services in coordination with non-governmental service providers. Additionally, conduct a housing needs assessment and adopt a comprehensive housing policy. Alternatively, demonstrate 60% of households spend less than 45% on housing and transportation. Alternatively, demonstrate new affordable housing units are produced at an annual rate of 5%. Alternatively, demonstrate that subsidized affordable housing unites are equal to or more than the most recent reporting year.	
Credit	Civic and Community Engagement	NA
	Demonstrate the ongoing engagement techniques that empower the public and the techniques include practices that intentionally and directly engage all residents, including traditionally unrepresented and underrepresented groups. Additionally, show diverse community representation, at least a 35% volunteer rate of residents within the city, conduct a sense of empowerment suvery showing 51% of residents believe they have a positive impact on the community, and conduct a cohesion and connectedness survey showing that 80% of residents report positive levels of neighborhood cohesion.	
Credit	Civil and Human Rights	NA
	Adopt a policy-based mission statement to promote a discrimination free quality of life for all relating to employment, housing, and public accommodations on the basis of race, sex, color, religion, national origin, disability, age, sexual orientation, marital status or familial status and gender identity or expression. Additionally, adopt a local comprehensive equal opportunity policy applicable to employment, housing, and public accommodations, adopt initiatives and policies to ensure voting rights, community policing, and procedural justice initiatives, have om place a local officer or Commission on Human Rights responsible for accountability for human rights.	

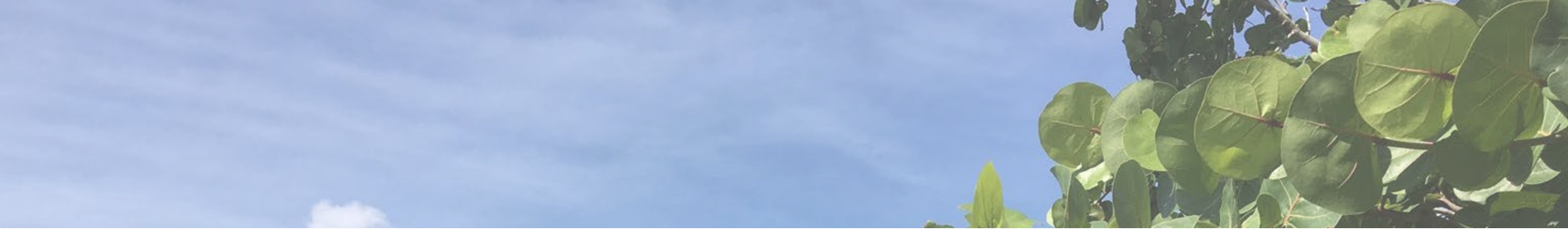


INNOVATION 6

Credit	Innovation	6

Achieve measurable environmental performance using strategies not addressed in the LEED rating system. Treasure Island achieved these credits through promoting public art, the LIFT program, the wheelchair beach path, resiliency implementation manual, sea turtle lighting design standards, and our future living shoreline.





REGIONAL PRIORITY 4

Credit	Regional Priority	4
	Achieve measurable environmental performance for a regional priority using strategies not addressed in the LEED rating system. Treasure Island acheived these credits through our Emergency Operations Center Shared Use plan, the Tampa Bay Regional Councils Resilience Coalition, our Vision Zero Initiative, and our Gulf Beaches Public Library.	



Sustainability & Resiliency Initiatives to Date

- Watershed Management Plan (GF)
- Sunset Beach Pervious Lots and Rain Garden (GF)
- Dune Management Program & Walkover Elevation (ongoing)
- City-wide LED Streetlighting Changeout; N Gulf Blvd/ Sunset/West Streets to Ambers
- Coastal Lighting Ordinance
- FDOT Wildlife Lighting Criteria
- Greenhouse Gas Inventory
- FL-Friendly Landscaping Palettes
- Wastewater Lining (ongoing) & Lift Station Rehabs (GF)
- Multi-Family Recycling Program
- Yard Waste Wednesdays
- LEED for Cities Gold Certification
- TBRPC Resiliency Coalition
- Comprehensive Plan Adoption
- Duke Energy Clean Energy Connection
- East Causeway Bioswales (GF)

GF: grant funding

Initiatives in Progress

- **Treasure Bay Living Shoreline and Pond Rehab (GF)**
- **Resiliency Implementation Plan (GF)**
- **Wastewater Master Pump Station Reconstruction & Elevation**
- **Connectivity & Safety Planning**
- **Outfall Maintenance / Strategic Backflow Preventers**
- **Sustainability & Resiliency Plan**

GF: grant funding

Current Projects


City Center Construction


Treasure Island Causeway Improvements


Public Works and Pump Station Facility


Treasure Bay Living Shoreline


Treasure Bay Future Planning


Public Safety Complex For Police and Fire


Dune Management and Beach Renourishment


Traffic and Mobility Plans


Wastewater System Evaluations


Wastewater Lift Station Rehabs


End Street Beautification


Gulf Blvd Wastewater Maintenance


Roadway Paving


Isle of Palms Park

Treasure Bay Living Shoreline & Pond Rehabilitation

- **Shoreline Enhancement to create habitat, improve water quality, reduce wave energy in lieu of replacing all failing seawalls**
- **Pond Restoration: dredging, planting, aeration, augmentation, cutting off Aquatic Preserve discharge (except for emergency overflows)**
- **Walking trail, permitted kayak launch**
- **Community Engagement: lookout deck and educational signage on the design and benefits of living shorelines**



Dune Management

- **Removal of Exotics/Invasives**
- **Upland Protection**
- **Erosion Control**
- **Provides Habitat**
- **Reestablishes Native Biodiversity**



Upcoming Projects

- **Vulnerability Assessment (GF)**
- **Re-write Land Development Regulations**
- **Adaptation Plan**
- **Post Disaster Recovery Plan**
- **Sustainable Purchasing & Event Policies**
- **City Center Native Vegetation Demonstration**

GF: grant funding

Sustainability & Resiliency

A draft Sustainability & Resiliency Plan is being developed. If you would like more information on sustainability initiatives in Treasure Island, please contact the Sustainability Coordinator at stacy.boyles@mytreasureisland.org.

Initiatives



Sustainability Survey

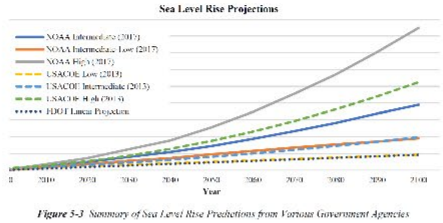


Figure 5-3 Summary of Sea Level Rise Predictions from Various Government Agencies

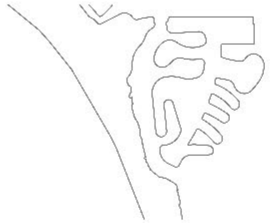
Watershed Management Plan



Sea Turtle Protection



FL-Friendly Landscaping



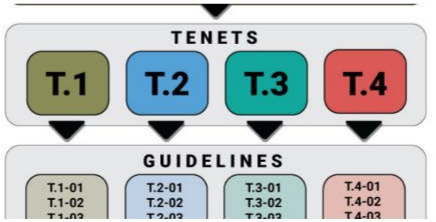
Comprehensive Plan Sustainability & Resiliency Policies



LEED for Cities Certification



Vulnerability & Adaptation Planning



Resiliency Implementation Manual

Sustainability & Resiliency Plan

- **Actionable Roadmap / Measuring Progress**
- **Promotes community well-being, prosperity, livability**
- **Defines goals and their importance to the City**
- **Relatable to staff, residents, visitors and business owners**
- **Addresses current and future challenges**
- **Fosters innovative decision-making**
- **Government to lead by example**
- **Crosswalk between the S&R Plan, Comp Plan, the TBRPC RAP, LfC Rating System**
  - **Unique actions that set the City apart from others**
  - **Steps to advance the City's LEED for Cities Certification Level**

