



## PUBLIC FACILITIES & SERVICES

LIVE



### GOALS, OBJECTIVES, AND POLICIES

GOAL PFE 1 PRIORITIZATION OF PROJECTS

GOAL PFE 2 POTABLE WATER

WORK



GOAL PFE 3 WASTEWATER MANAGEMENT

GOAL PFE 4 STORMWATER MANAGEMENT AND FLOOD PREVENTION AND MITIGATION

PLAY



GOAL PFE 5 SOLID WASTE SYSTEMS

GOAL PFE 6 TRANSPORTATION AND MOBILITY

GROW



GOAL PFE 7 PUBLIC OFFICE FACILITIES AND SERVICES



## PUBLIC FACILITIES & SERVICES ELEMENT

### WHAT IS THE PUBLIC FACILITIES & SERVICES ELEMENT?

The Goals, Objectives, and Policies in the Public Facilities Element provide cost-effective lifecycle management of the City's public facilities, infrastructure, and key essential services to enhance sustainability and the health, safety and welfare of residents, businesses, and visitors.

### PUBLIC FACILITIES & SERVICES GOALS

<b>GOAL PFE 1</b>	<b>PRIORITIZATION OF PROJECTS</b> ENHANCE PUBLIC FACILITIES AND THE PROCESSES USED TO IDENTIFY AND FINANCE IMPROVEMENTS IN ACCORDANCE WITH THE GUIDELINES FOR PRIORITIZING CAPITAL IMPROVEMENT PROJECTS.
<b>GOAL PFE 2</b>	<b>POTABLE WATER SYSTEM</b> PLAN FOR, PROVIDE, AND DISTRIBUTE POTABLE WATER TO ACCOMMODATE DEMANDS BOTH IN TERMS OF QUANTITY AND QUALITY IN CONSIDERATION OF THIS LIMITED RESOURCE AND LIMITED SOURCES OF CAPITAL.
<b>GOAL PFE 3</b>	<b>WASTEWATER MANAGEMENT</b> MAINTAIN AND UPGRADE FACILITIES TO EFFECTIVELY COLLECT, TREAT, AND PROPERLY DISPOSE OF WASTEWATER AND SYSTEM BYPRODUCTS FOR THE PROTECTION OF THE ENVIRONMENT.
<b>GOAL PFE 4</b>	<b>STORMWATER MANAGEMENT AND FLOOD PREVENTION AND MITIGATION</b> LIMIT POTENTIAL PROPERTY DAMAGE AND INCONVENIENCE TO THE PUBLIC CREATED BY FLOODING, POOR STREET DRAINAGE CONDITIONS, OR SEA LEVEL RISE BY PLANNING AND IMPLEMENTING MITIGATION STRATEGIES THROUGHOUT THE CITY.
<b>GOAL PFE 5</b>	<b>SOLID WASTE SYSTEMS</b> UTILIZE SOLID WASTE DISPOSAL PROGRAMS AND FACILITIES TO PROVIDE A FUNCTIONAL, ECOLOGICALLY SOUND, AESTHETICALLY PLEASING, AND SUSTAINABLE PHYSICAL ENVIRONMENT THROUGHOUT THE CITY.
<b>GOAL PFE 6</b>	<b>TRANSPORTATION AND MOBILITY</b> PROVIDE MULTIMODAL TRANSPORTATION FACILITIES THAT PROVIDE MOBILITY CHOICES TO USERS OF ALL AGES AND PHYSICAL ABILITIES AND THAT MAINTAIN AND ENHANCE THE CHARACTER OF THE CITY, ITS NEIGHBORHOODS, DISTRICTS, AND CORRIDORS.
<b>GOAL PFE 7</b>	<b>PUBLIC BUILDINGS AND FACILITIES</b> IMPLEMENT A COORDINATED AND COMPREHENSIVE PROGRAM FOR THE PROVISION OF OFFICES AND FACILITIES FOR CITY BUSINESS.



## GOAL PFE 1 PRIORITIZATION OF PROJECTS

### ENHANCE THE PROCESSES USED TO IDENTIFY AND FINANCE PUBLIC FACILITY IMPROVEMENTS IN ACCORDANCE WITH THE GUIDELINES FOR PRIORITIZING CAPITAL IMPROVEMENT PROJECTS.

**Performance Measures:** Success in addressing the Objectives and Policies of **Goal PFE 1** shall be measured utilizing the following performance indicators:

- Conduct an annual infrastructure hearing to solicit public input regarding needed infrastructure improvements; and,
- Number of public outreach efforts conducted in capital improvement programming and facilities planning.

#### Objective PFE 1.1 Public Input and Involvement

Public information campaigns shall be used to provide public awareness of and encourage involvement in public improvement activities.

##### Policy PFE 1.1.1

Promote public knowledge and understanding of public facilities and infrastructure planning and projects by continuing public outreach efforts on the City's website to provide the most current Five-Year Capital Improvement Plan and Capital Improvement Budget; information and schedule for improvement projects in the design and construction phases; and, information regarding water conservation, solid waste disposal, and other subjects related to public facilities.

##### Policy PFE 1.1.2

Conduct an annual infrastructure public hearing (in the winter months) to solicit public input to identify those geographic areas that are most in need of improvements and specific infrastructure needs for the purposes of identifying and prioritizing project funding and scheduling. The public hearings shall be advertised and held before the Planning and Zoning Board (Local Planning Agency).

##### Policy PFE 1.1.3

In conjunction with the annual infrastructure hearing, provide opportunities for public input on needed improvements using a variety of methods of engagement, such as, email, online surveys, contacting neighborhood and homeowner associations, holding roundtable discussions, hosting booths at public events, etc.

##### Policy PFE 1.1.4

Provide an updated list from the Planning and Zoning Board (Local Planning Agency) to the City Commission of new or revised infrastructure needs with written findings to justify the need for the identified projects. [Annually]

##### Policy PFE 1.1.5

Conduct a study or analysis of needs and potential solutions for new or major upgrades to existing public facilities, and publicly present the findings and recommendations to engage the public in the process.

#### Objective PFE 1.2 Project Prioritization

Prioritize projects based on adopted need and efficiency standards.

##### Policy PFE 1.2.1

Use the criteria for prioritizing capital projects in the Capital Improvements Element for public facility improvements.

**Policy CIE 1.2.3**

##### Policy PFE 1.2.2

Use the Water Supply Facilities Work Plan to prioritize and coordinate improvements to the City's water supply system.

**Policy CSR 2.5.1**

##### Policy PFE 1.2.3

Consider other planned improvement projects (e.g. street construction and drainage) when programming water, sewer, and other public facilities to maximize efficiency.

##### Policy PFE 1.2.4

Consider the Goals, Objectives, and Policies of the Economic Prosperity Element when planning,



## GOAL PFE 1 PRIORITIZATION OF PROJECTS

---

identifying, and programming infrastructure improvements.

### **Objective ECP 6.1**

#### **Policies ECP 6.1.1 – 6.1.7**

#### **Objective PFE 1.3 Coordination of Utilities**

Coordinate with local and regional utility providers to maximize investment and minimize negative impacts.

#### **Policy PFE 1.3.1**

Coordinate with local and regional utility providers to determine the need for infrastructure facilities and identify potential funding sources.

#### **Policy ECP 6.1.5**

#### **Policy PFE 1.3.2**

Continue to coordinate with all utility providers to locate utilities in a manner consistent with the character of historic sites and districts.

#### **Policy HPE 1.4.3**

#### **Objective PFE 1.4 Funding for Water and Sewer Capital**

Allocate capital raised through the water and sewer enterprise funds as required by bond covenants.

#### **Policy PFE 1.4.1**

Transfer funds from enterprise funds to the general fund only for the fund's proportionate share of administrative costs and an in-lieu of taxpayment.

#### **Policy PFE 1.4.2**

Provide annual allocations for upgrading system components (i.e. manholes, hydrants, etc.) in the Water and Sewer Renewal and Replacement Fund.

#### **Policy PFE 1.4.3**

Finance upgrades of existing systems to construction and level of service standards and extension of new facilities to unserved, inhabited areas through appropriations in the Water and Sewer New Capital Outlay Fund.



## GOAL PFE 2

## POTABLE WATER

**PLAN FOR AND PROVIDE POTABLE WATER FACILITIES TO ACCOMMODATE DEMANDS BOTH IN TERMS OF QUANTITY AND QUALITY IN CONSIDERATION OF THIS LIMITED RESOURCE AND THE LIMITED SOURCES OF CAPITAL.**

**Performance Measures:** Success in addressing the Objectives and Policies of Goal PFE 2 shall be measured utilizing the following performance indicators:

- Water consumption per capita and total;
- Diversity of water supply; and,
- Decrease in amount of resident complaints.

### **Objective PFE 2.1 Protection of the Water Supply**

Preserve and protect the long term water supply, by preparing for increased groundwater withdrawals and reduced capacity through potential salt water intrusion and/or extended drought conditions through the optimum use of existing wells, development of new wells, and development of alternative technologies and methods of providing water.

#### **Objective CSR 2.5**

#### **Policy PFE 2.1.1**

Protect existing wellfields through the continued implementation of monitoring for salt water intrusion, wastewater pretreatment programs, and monitoring wells, and enhanced quality control programs that provide early detection of possible contamination.

#### **Policy CSR 2.1.1, 2.1.3, 2.1.5**

#### **Policy PFE 2.1.2**

Continue developing alternative water supplies as a mechanism to diversify the City's sources of potable water supply.

#### **Policy CSR 2.4.2, 2.4.3**

#### **Policy 2.1.3**

Cooperate with and support local and regional strategic partners in the development of and implementation of local and regional water resource strategies and development, including but not limited to, increased conservation, recharge, and additional reuse projects such as rapid infiltration basins, Upper Floridian aquifer development, and the C-51 Reservoir Project.

#### **Policy CSR 2.4.1**

#### **Policy PFE 2.1.4**

Consider the most current version of South Florida Water Management District's Lower East Coast Water Supply Plan and Regional Water Plan in developing a Water Supply Facilities Work Plan. The Work Plan will be reviewed and updated every 5 years within 18 months following an update of the Regional Water Supply Plan, pursuant to F.S. 163.3177(6)(c)3.

#### **Policy CSR 2.5.1, 2.5.2**

#### **Policy PFE 2.1.5**

Adopt and maintain a Water Supply Facilities Work Plan for at least a 10-year period, to address issues that pertain to water supply facilities and requirements needed to serve current and future development within the City of Delray Beach water service area. This plan will be based on the availability and appropriate use of regional water resources and the combined use of alternative water supplies to diversify the City's source of water and reduce dependence on the surficial aquifer. The Work Plan shall be consistent with the City's Water Use Permit renewals.

#### **Policy CSR 2.4.1, 2.4.2, 2.4.3, 2.5.1**

#### **Policy PFE 2.1.6**

The City of Delray Beach hereby adopts by reference the 10-Year Water Supply Facilities Work Plan (Work Plan), prepared by Kimley Horn and Associates, Inc. and dated February 2015, for a planning period of not less than 10 years.

#### **Policy CSR 2.5.1**



## GOAL PFE 2

## POTABLE WATER

### Policy PFE 2.1.7

Reclaim and reuse at least 60% of wastewater by 2025 through reclaimed water systems that provide irrigation, help recharge wellfields, etc., pursuant to the Ocean Outfall Law Section 403.086 F.S.

#### Policy CSR 2.4.11

### Policy PFE 2.1.8

Continue to evaluate all new development and business tax receipt applications for compliance with the County Wellfield Protection Ordinance, as implemented by the Land Development Regulations.

#### Policy CSR 2.2.4

### Objective PFE 2.2 Reduction of Water Demand

Reduce demand through year-round conservation and treatment plant enhancements to ensure that potable water is available to meet long term consumption demands,

### Policy PFE 2.2.1

Maintain the program of responsible consumption of water and strive to decrease the overall per capita consumption of water through continued implementation of the following techniques and programs:

- Maintaining the water rate structure, which establishes an inverted block rate structure to set higher consumption rates for increased water use to promote reductions in water consumption.
- Establishing conservation surcharges, based on South Florida Water Management District formulae, and keyed to various levels of drought alert.
- Mandating use of wells for irrigation purposes, where conditions permit.
- Continuing enforcement of water use laws.
- Considering Florida-friendly landscaping alternatives for all new development, redevelopment, or new planting/landscape modifications/replacements during the review of site and development plans. (not only new development only; encourage/incentivize

existing development); provide information on "Florida-friendly"; public information on what is appropriate and where to get it;

- Continuing the regular preventive maintenance program for water mains, pumps and meters.
- Continuing and expanding the reclaimed water system.
- Participating in South Florida Water Management District's Conservation Hotel and Motel Program to promote water conservation for the city's hotels.

#### Policy CSR 2.4.1, 2.4.2, 2.4.14

### Policy PFE 2.2.2

Continue to provide the following levels of service at the water treatment facility:

- Average finished water design flow of the water system @ 234.8 gpcd.
- Storage capacity for the water system @ 15% of maximum flow plus fire reserve at 1.5 mg, plus 25% of that total.
- Minimum pressure for the water system @ 20 psi. Capacity of 26 MGD

### Policy PFE 2.2.3

Public facilities, including potable water, shall be in place and available to serve new development no later than the issuance by the City of a certificate of occupancy or its functional equivalent.

#### Policy NDC 3.1.3

### Policy PFE 2.2.4

Require new development to provide water system improvements to accommodate increased demand and to meet the City's minimum design standards concurrent with development.

### Policy PFE 2.2.5

Coordinate population projections and water demand planning with the Town of Gulfstream, to which the City provides water service through an interlocal agreement.



### Objective PFE 2.3 Enhanced Water Quality

Provide for the enhancement of the quality of water, as measured by the Florida Department of Environmental Protection standards.

**Policy CSR 2.3.1**

#### Policy PFE 2.3.1

Maintain provisions in the program for raw water supply that require only minimal reliance upon wells that are subject to saltwater intrusion.

**Policy CSR 2.1.5, 8.5.11, 8.6.12**

#### Policy PFE 2.3.2

Distribute annual consumer confidence reports to residents that describe the current condition of potable water, including at a minimum, water quality, consumption trends, and treatment methods.

#### Policy PFE 2.3.3

Continue to meet the EPA stage 2 disinfection by-product rule requirements.

### Objective 2.4 Efficient and Effective Potable Water System

Provide for the efficient and effective distribution of potable water resources.

#### Policy PFE 2.4.1

Discourage urban sprawl within areas of County jurisdiction by denying requests to make water service available outside the Planning Area to areas that could be developed at low density.

#### Policy PFE 2.4.2

Require new development to be responsible for extending water service to and through land to be developed; these extensions shall meet the City's performance standards.

#### Policy PFE 2.4.3

Provide for upgrades of existing potable water distribution facilities through annual appropriations in the capital improvement program.

#### Policy PFE 2.4.4

Provide water facilities to unincorporated areas upon demand, consistent with City policies to voluntarily annex upon eligibility; if the property is

already eligible, annexation shall precede the provision of services.

**Policy NDC 3.2.3**

### Objective 2.5 Enhanced Potable Water System Capacity

Improve the potable water supply and distribution system to enhance capacity and reduce leakage.

#### Policy PFE 2.5.1

Maintain the inventory and condition of the water distribution system through regular updates to the City atlas and the use of surveillance programs.

#### Policy PFE 2.5.2

Whenever the opportunity occurs to uncover or examine an existing water main, conduct an inspection to evaluate the condition and log the results to help inform the Operation and Maintenance plan.

#### Policy PFE 2.5.3

Complete the underground pipe condition assessment to identify near term and long-term Capital Improvements repair and replacement needs. [Complete by 2022]

#### Policy PFE 2.5.4

Use the Water Supply Facilities Work Plan to prioritize and coordinate improvements to the City's water supply system.

**Policy CIE 1.1.9**

**Policy CSR 2.5.1**

#### Policy PFE 2.5.5

Maintain a current five-year schedule of capital improvements to the Water Supply System.

**Policy CSR 2.4.2**





## GOAL PFE 3 WASTEWATER MANAGEMENT

### MAINTAIN AND UPGRADE FACILITIES TO EFFECTIVELY COLLECT AND TREAT, AND PROPERLY DISPOSE OF WASTEWATER AND SYSTEM BYPRODUCTS FOR THE PROTECTION OF THE ENVIRONMENT.

**Performance Measures:** Success in addressing the Objectives and Policies of Goal PFE 3 shall be measured utilizing the following performance indicator:

- Increase in amount of reclaimed water used; and,
- Increase in availability of reclaimed water systems.

#### Objective PFE 3.1 Reduction of Point Source Pollution

Continue to develop and implement specific programs to mitigate the adverse impacts of point sources of pollution in collaboration with the South Central Regional Wastewater Treatment and Disposal Board and other strategic partners, as appropriate.

**Policy CME 1.6.1**

**Objective CSR 2.1**

#### Policy PFE 3.1.1

Discontinue the use of existing septic tanks located in areas with access to City sewer systems and require connection to the City's system, pursuant to Florida Statutes. Septic systems subject to flooding, or with chronic drainfield problems, shall be abandoned and connection shall be made to the central sewer system.

#### Policy PFE 3.1.2

Continue to utilize the reclaimed water system, surficial aquifer replenishment, and other options for the disposal of treated wastewater and only utilize discharge into the Intracoastal Waterway and Atlantic Ocean in emergency weather events.

#### Policy PFE 3.1.3

Prioritize improvements to the sewer system that rehabilitate portions of the original system that experience infiltration and leakage.

#### Objective PFE 3.2 Increased Reclaimed Water Use

Reclaim and reuse more wastewater and effluent from the wastewater treatment plant.

#### Policy PFE 3.2.1

Reuse at least 60% of wastewater by 2025 through reclaimed water systems that provide irrigation, help recharge wellfields, and other sustainable activities, pursuant to the Ocean Outfall Law Section 403.086 F.S. This reuse water goal shall be shared by Delray Beach and Boynton Beach.

**Policy CSR 2.4.1**

#### Policy PFE 3.2.2

Continue to monitor and expand the use of reclaimed water from the wastewater treatment plant for irrigation purposes, with prioritization on golf courses in the city, large home owner associations on master meters, City Parks, and in the Coastal Planning Area.

**Policy CSR 2.4.2, 2.4.10, 2.4.11**

#### Policy PFE 3.2.3

Expand the use of reclaimed water as a water conservation measure.

**Policy CSR 2.4.1, 2.4.11**

#### Objective PFE 3.3 Monitoring and Maintenance of the Water and Sewer System

Maintain the condition and inventory of the water and sewer systems through regular updates of the City atlas and surveillance programs.

#### Policy PFE 3.3.1

Continue to maintain and update the wastewater collection and transmission system atlas to reflect current system inventory and monitor operational characteristics by radio telemetry and surveillance programs for the purpose of planning system extensions and upgrade requirements.





## GOAL PFE 3 WASTEWATER MANAGEMENT

---

### Policy PFE 3.3.2

Complete the underground pipe condition assessment to identify and prioritize collection and transmission system needs. [Complete by 2022]

### Policy PFE 3.3.3

Conduct a lift station condition assessment to identify and prioritize facility needs. [Complete by 2022]

#### Objective PFE 3.4 Wastewater System Capital Improvements Planning

Program and install wastewater collection facilities when the need is demonstrated.

### Policy PFE 3.4.1

Program upgrades of existing wastewater facilities through annual appropriations in the capital improvement program.

### Policy PFE 3.4.2

Require new development to extend sewer service that meets the City's performance standards to and through land to be developed.

### Policy PFE 3.4.3

Provide sewer facilities to unincorporated areas upon demand, consistent with City policies to voluntarily annex upon eligibility; if the property is already eligible, annexation shall precede the provision of services.

### Policy NDC 3.2.3

#### Objective PFE 3.5 Cost Effective Capital Improvements

Continue to participate on the South Central Regional Waste Water Treatment and Disposal Board to examine cost effective ways in which capital improvements have the least economic impact on property owners within the city.

### Policy PFE 3.5.1

Maintain a minimum Level of Service for the wastewater treatment plant of 115 gpcd up to the plant capacity of 12 mgd, in addition to the specific requirements of Boynton Beach.

### Policy PFE 3.5.2

Base commitments by the South Central Regional Waste Water Treatment and Disposal Board for capital expansion at the wastewater treatment plant on a 50%/50% cost sharing by the City of Delray Beach and the City of Boynton Beach. Base costs related to operating the plant on the usage of each municipality (currently Delray Beach 40% and Boynton Beach 60%).

### Policy PFE 3.5.3

Maintain average flow design capacity for the South Central Regional Wastewater Treatment Plant at 24 mgd and maintain peak flow design capacity at 30 mgd, with capacity needs monitored by the South Central Wastewater Regional Treatment Plant Board.



## GOAL PFE 4 STORMWATER MANAGEMENT, FLOOD PREVENTION AND MITIGATION

**LIMIT PROPERTY DAMAGE AND INCONVENIENCE TO THE PUBLIC CREATED BY FLOODING, POOR STREET DRAINAGE CONDITIONS, OR SEA LEVEL RISE BY PLANNING AND IMPLEMENTATION OF MITIGATION STRATEGIES THROUGHOUT THE CITY.**

**Performance Measures:** Success in addressing the Objectives and Policies of Goal PFE 4 shall be measured utilizing the following performance indicators:

- Reduced occurrences of flooding
- Projects completed to decrease flood impacts and mitigate flooding
- Completed analysis of facilities for flooding potential, including but not limited to 2018 Stormwater Master Plan Update and 2018 Intracoastal Water Level & Infrastructure Vulnerability Study

### **Objective PFE 4.1 Maintenance of a Stormwater Capital Improvement Program**

Maintain a capital improvement program directed specifically to stormwater management and identify capital projects in that program that will be implemented with funding from the Stormwater Utility Fee.

#### **Policy PFE 4.1.1**

Criteria for determining project priorities shall be as defined in the 2018 Stormwater Master Plan Update, Intracoastal Waterway Water Level & Infrastructure Vulnerability Study, and based upon correcting current, localized problems. The City shall allocate funds necessary to update the Stormwater Master Plan on a regular basis.

**Policy CSR 8.1.4, 8.1.5, 8.5.2, 8.6.6**

#### **Policy PFE 4.1.2**

Determine the scope of stormwater management projects using minimum design standards that establish a level of service to protect water quality at least equal to the standard of retaining the first one inch of runoff for the entire site or 2.5 inches of water storage times the percentage of impervious area, whichever is greater.

#### **Policy PFE 4.1.3**

Maintain storm water management regulations that provide for the protection of natural drainage features and ensure that development provides compensating or "net neutral" storage for areas below the 100-year storm elevation, to ensure no loss in storage for the basin below the 100-year stage with calculations of predevelopment

storage equal to or greater than post development storage.

#### **Policy PFE 4.1.4**

Maintain through regulations the minimum design storm return frequency for stormwater facilities capacity that considers future flood risk.

**Policy CSR 8.1.5, 8.4.5, 8.5.4, 8.5.6**

#### **Policy PFE 4.1.5**

Protect and enhance surface water quality through the full implementation of programs and activities included in the National Pollutant Discharge Elimination System permit.

#### **Policy PFE 4.1.6**

Maintain a stormwater mapping system and maintenance program for storm sewers and structures.

#### **Policy PFE 4.1.7**

Locate drainage improvements and flood control projects throughout the city as opposed to being concentrated in a single quadrant.

#### **Policy PFE 4.1.8**

Develop regulations to reduce stormwater runoff through strategies such as pervious paving in alleys, public ROW, parking lots, and on-site storage of the "first flush" or first 1"-2" of rainfall.

**Policy CME 1.6.1**

**Policy CSR 2.4.16**

#### **Policy PFE 4.1.9**

Establish a program to accommodate necessary repair, replacement, and maintenance of City



## GOAL PFE 4 STORMWATER MANAGEMENT, FLOOD PREVENTION AND MITIGATION

owned seawalls and stormwater outfalls along the Intracoastal Waterway and canals consistent with the recommendations of the City of Delray Beach Intracoastal Waterway Water Level & Infrastructure Vulnerability Study.

**Policy CME 1.6.1**

**Policy CSR 8.1.5**

### **Objective PFE 4.2 Implement Strategies to Mitigate Climate Change and Sea Level Rise**

Advance water management strategies, and infrastructure improvements necessary to mitigate for the adverse impacts of climate change and sea level rise on water management systems, according to industry best practice standards.

#### **Policy PFE 4.2.1**

Utilize information and recommendations in the 2018 Stormwater Master Plan Update to determine level of service and design standards for stormwater systems that consider vulnerability to sea level rise and future climate impacts, such as extreme precipitation.

**Policy CSR 8.5.2**

#### **Policy PFE 4.2.2**

Utilize the recommendations in the 2018 Stormwater Master Plan Update to amend and/or update the Land Development Regulations to achieve the highest design standards for development related to on site stormwater systems.

#### **Policy PFE 4.2.3**

Restrict investments in and protect, and determine needed upgrades to, public facilities within the coastal high hazard area and adaptation action areas, once adopted, accounting for the impacts of sea level rise.

**Policy CSR 8.5.4**

#### **Policy PFE 4.2.4**

At the time of street upgrades, implement methods to prevent nuisance street flooding and ponding during storms and from tidal flooding on critical streets, including, but not limited to those identified at risk in a Vulnerability Analysis or those with vulnerable infrastructure identified in the 2018

Stormwater Master Plan Update or Intracoastal Waterway Water Level & Infrastructure Vulnerability Study.

**Policy CSR 8.5.1, 8.5.2, 8.5.4, 8.5.15**

#### **Policy PFE 4.2.5**

Explore the use of Living Shorelines and green infrastructure as adaptation strategies in conjunction with stormwater infrastructure capital planning.

**Objective CSR 8.4**

**Policy CSR 8.4.5 & 8.1.2**

#### **Policy PFE 4.2.6**

Continue to utilize the best available and regionally accepted modeling parameters that identify future conditions under which the stormwater system is expected to operate including future precipitation and sea level rise conditions.

**Policy CSR 8.5.2 & 8.5.6**

#### **Policy PFE 4.2.7**

Engage the South Florida Water Management District, Lake Worth Drainage District, and other water officials in the development and update of regional flood resilience models, and guide planning and investments for future flood and climate conditions based on anticipated adjustments to water management operations.

**Policy CSR 8.6.3**



## GOAL PFE 5 SOLID WASTE SYSTEMS

**UTILIZE SOLID WASTE DISPOSAL PROGRAMS AND FACILITIES TO PROVIDE A FUNCTIONAL, ECOLOGICALLY SOUND, AESTHETICALLY PLEASING, AND SUSTAINABLE PHYSICAL ENVIRONMENT THROUGHOUT THE CITY.**

**Performance Measures:** Success in addressing the Objectives and Policies of Goal PFE 5 shall be measured utilizing the following performance indicators:

- Increase in recycled waste; and,
- Landfill space available.

### **Objective PFE 5.1 Environmentally Sound Solid Waste Management**

Continue to develop and implement programs to address the collection and disposal of solid waste that use environmentally sound procedures.

#### **Policy PFE 5.1.1**

Support the continuation of a central collection site, under the jurisdiction of the Solid Waste Authority, and encourage the public to bring and deposit household hazardous wastes on a regular basis.

**Policy CSR 2.3.4**

#### **Policy PFE 5.1.2**

Implement public education programs to provide awareness of the impacts of the improper disposal of household hazardous waste. [Complete by 2022]

**Policy CSR 6.1.2, 6.1.9**

#### **Policy PFE 5.1.3**

Maintain the lifespan of the landfill; maintain the Level of Service for solid waste generation as 7.13 pounds per person per day.

#### **Policy PFE 5.1.4**

Increase involvement in recycling programs available to residents and business owners.

**Goal CSR 6**

**Objective CSR 6.1**

**Policy CSR 6.1.1-6.1.10, 6.1.14**

#### **Policy PFE 5.1.5**

Continue to participate in the Palm Beach County Solid Waste Authority recycling program, and work with Palm Beach County to meet or exceed County-imposed recycling goals in Section 403.706(2)(a), Florida Statutes requiring a

recyclable materials program that have a goal of recycling solid waste by 75 percent by December 31, 2020.

**Policy CSR 6.1.1**

#### **Policy PFE 5.1.6**

Work with the Solid Waste Authority to increase rates of residential and commercial recycling and implementation of hazardous waste management programs for the proper storage, recycling, collection and disposal of hazardous wastes.

**Policy CSR 6.1.2**

#### **Policy PFE 5.1.7**

Continue to support the County's education program to increase participation in recycling.

**Policy CSR 6.1.3**

#### **Policy PFE 5.1.8**

Implement communitywide incentives and policies ensuring that residents and businesses are working toward achieving community waste reductions goals. [Complete by 2022]

**Policy CSR 6.1.4**

#### **Policy PFE 5.1.9**

Work with the waste hauler to receive city-level monitoring data and utilize annual and quarterly service reports to create a database of waste management services, analyze usage, and identify opportunities for improving waste management within the Delray Beach Planning Area.

**Policy CSR 6.1.5**



## GOAL PFE 5 SOLID WASTE SYSTEMS

---

### Policy PFE 5.1.10

Promote waste reduction through the use of more sustainable products in certain industries, such as biodegradable straws, bags, packaging and containers.

#### Policy CSR 6.1.6

### Policy PFE 5.1.11

Update commercial recycling requirements consistent with Section 403.7046(3), F.S. and collaborate with the Chamber to reach business entities on importance of recycling and benefits to the community overall in increasing recycling rates with an emphasis on restaurants. [Complete by 2020]

#### Policy CSR 6.1.7

### Policy PFE 5.1.12

To increase recycling of construction and demolition debris, provide the public with educational materials about available pick up service, and partner with the Solid Waste Authority, its waste hauler, and other appropriate agencies to promote available methods of disposal.

#### Policy CSR 6.1.8

### Policy PFE 5.1.13

Provide recycle receptacles on City properties specifically locations where the City currently supports trash receptacles, such as Atlantic Avenue, the Municipal Beach, Pineapple Grove Way, Swinton Avenue, City parks, and other appropriate areas. [Complete by 2022]

#### Policy CSR 6.1.12

### Policy PFE 5.1.14

Work closely with the Solid Waste Authority in the preparation of public notices, educational materials, promotional materials to be distributed to residential and commercial customers.

#### Policy CSR 6.1.13

### Policy PFE 5.1.15

Actively work with the waste hauler in the administration of the "Optional Benefits" described in Exhibit 13 of the current Agreement with the City:

- Collaborate in the administration of the "Recycle Delray" program, which promotes recycling through community events and

outreach programs for local schools and businesses.

- Use the contribution made to the Delray Beach Public Library for recycling and composting educational outreach activities.
- Continue support of one Keep America Beautiful Coastal Cleanup event per year.
- Coordinate with the waste hauler to support the "Annual Shredder Day" providing free shredding services to the City and its residents.
- Coordinate to support the "You Recycle, We Replant" provision of the Agreement which provides for new or replacement trees in public places.

#### Policy CSR 6.1.14

### Policy PFE 5.1.16

Prior to demolition, salvageable materials should be removed and sourced to upcycling and reuse organizations or recycled.

#### Policy CSR 6.1.15

### Policy PFE 5.1.17

Implement an annual education program to encourage increased participation in the recycling program by low performing neighborhoods. [Complete by 2022]



## GOAL PFE 6 TRANSPORTATION AND MOBILITY

### PROVIDE MULTI-MODAL TRANSPORTATION FACILITIES FOR ALL USERS AND PHYSICAL ABILITIES THAT MAINTAIN AND ENHANCE THE CHARACTER OF THE CITY, ITS NEIGHBORHOODS, DISTRICTS, AND CORRIDORS.

**Performance Measures:** Success in addressing the Objectives and Policies of Goal PFE 6 shall be measured utilizing the following performance indicators:

- Reduction of deficient roads;
- Increase in lane miles repaired and/or installed;
- Increase in sidewalks repaired and/or installed;
- Increase in planned and/or constructed bike lanes;
- Increase in improved alleys; and,
- Increase in planned or completed streetscape projects that incorporate landscaping, lighting, street furniture, etc.

#### Objective PFE 6.1 Maintenance and Enhancement of the Multi-Modal Transportation Network

Maintain and enhance the City's street system to provide a safe, convenient, and aesthetically-pleasing multi-modal network throughout the city.

Objective CSR 1.3

Goal MBL 2

#### Policy PFE 6.1.1

Program installation of sidewalks on an annual basis, with the goal of completing a safe and convenient American's with Disabilities Act (ADA) compliant sidewalk system throughout Delray Beach. [Complete by 2025-2040]

#### Policy PFE 6.1.2

Improve the street network in accordance with the City's adopted Complete Streets Policy, where appropriate. [Complete by 2025-2040]

Policy MBL 1.2.2

Policy CIE 2.2.1

Policy CSR 1.4.8

#### Policy PFE 6.1.3

Program installation of bicycle routes on an annual basis, with the goal of completing the priority projects identified on Map AD-8 (Bicycle Network), and amend the map to reflect

updated priority routes and projects within one year of the adoption of a Bicycle Master Plan. [Complete by 2025-2040]

#### Policy PFE 6.1.4

Prioritize sidewalk and bicycle route improvements that provide access to schools, parks, and transit stops and stations.

#### Policy PFE 6.1.5

Coordinate with strategic partners, including the Downtown Development Authority and Community Redevelopment Agency, to create an improved and complete system of wayfinding signs throughout the downtown. [Complete by 2025-2040]

#### Policy PFE 6.1.6

Plan for and allocate funding for the design and construction of a downtown commuter rail station.

Policy CSR 1.3.3

Policy NDC 2.4.5

#### Policy PFE 6.1.7

Continue to engage the public through the annual infrastructure hearing, neighborhood meetings, web-site postings, and other public outreach methods to identify streets and public spaces in need of improvements, including beautification.



## GOAL PFE 6 TRANSPORTATION AND MOBILITY

---

### **Policy PFE 6.1.8**

Evaluate streets in need of lighting improvements, determine associated costs, and prioritize phasing of such improvements based on need, in order to improve public safety. [Complete by 2022]

### **Policy PFE 6.1.9**

Provide funding for the streets reconstructing and resurfacing program to bring all roadways to an overall condition index (OCI) above 70. [Complete by 2025-2040]

### **Policy PFE 6.1.10**

Incorporate sea level rise, flooding and climate information into the planning, siting, construction, replacement and maintenance of public infrastructure, including roads, using best practices in a manner that is cost-effective and that maximizes the use of the infrastructure throughout its expected life span.

**Policy CSR 8.5.3**

**Policy CME 3.2.5**

### **Policy PFE 6.1.11**

Design and construct public infrastructure improvements, such as, streets, street trees, streetlights, signage, furniture and sidewalks, within historic districts to be compatible with and reinforce the historic character of the district.

**Policy HPE 1.4.2**

### **Policy PFE 6.1.12**

Work to upgrade the internet technology infrastructure and use high speed connections to attract new technology firms to Delray Beach.





## GOAL PFE 7 PUBLIC OFFICE FACILITIES AND SERVICES

### IMPLEMENT A COORDINATED AND COMPREHENSIVE PROGRAM FOR THE PROVISION OF OFFICE FACILITIES FOR THE CONDUCT OF CITY BUSINESS.

**Performance Measures:** Success in addressing the Objectives and Policies of **Goal PFE 7** shall be measured utilizing the following performance indicators:

- Development and implementation of a strategic asset management plan
- Number of public facilities hardening projects
- Number of renewable energy projects

#### Objective PFE 7.1 Implementation of a Facilities Maintenance Program

Implement a comprehensive program to maintain and upgrade existing public facilities to a state of the art level of service and attractive appearance.

##### Policy PFE 7.1.1

Continue the established programs for the maintenance and repair of buildings and facilities in a timely manner to maximize their viability.

##### Policy PFE 7.1.2

Replace irreparable or obsolete buildings and facilities and upgrade existing facilities to maintain their established level of service to the community.

##### Policy PFE 7.1.3

Complete a needs assessment, including American's with Disabilities Act compliancy and security of offices, meeting chambers, and other facilities serving the public at City Hall, to help guide long term facility planning. [Complete by 2022]

##### Policy PFE 7.1.4

Within one year of completion of the needs assessment, engage the public in decisions related to major facility replacement, including the upgrading, replacement, or relocation of City Hall.

#### Objective PFE 7.2 Sustainability and Resilience of City Facilities

Improve the sustainability and resiliency of City facilities.

##### Objective CSR 9.1

##### Policy PFE 7.2.1

Consider alternatives that increase sustainability and resiliency when making improvements and repairs to all facilities.

**Policy CSR 5.1.6, 5.2.1, 5.2.6, 7.1.3, 8.5.7, 8.6.8**

##### Policy PFE 7.2.2

Prior to adding to the Capital Improvements Element, review projects for resiliency, including impacts from climate change, such as sea level rise and storm surge, future flooding, and heat conditions. The City shall focus on level of service standards, as one of the points of analysis, to assure that infrastructure useful life and service expectations can be met in the face of climate change impacts.

**Policy CSR 8.5.1, 8.5.7, 8.5.15**

##### Policy PFE 7.2.3

Require any new major public facilities or retrofits (upgrade) to include solar energy or other renewable energy source, where feasible, to meet the City's greenhouse gas reduction goals, and highlight renewable energy projects to the community.

**Policy CSR 5.2.8, 7.1.5, 7.1.4**

##### Policy PFE 7.2.4

Develop informational signage in City facilities to educate visitors about sustainability and resilience initiatives such as relative elevation or location from mean sea level identifiers.

**Policy CSR 7.3.1**



## GOAL PFE 7 PUBLIC OFFICE FACILITIES AND SERVICES

---

### **Policy PFE 7.2.5**

Upgrade the internet technology infrastructure and use high speed connections to attract new technology firms to Delray Beach.

**Policy ECP 6.1.4**

and establish a renewable energy target for municipal operations. [Complete by 2025].

**Policy CSR 5.2.6**

### **Objective PFE 7.3 Harden Existing Facilities to Improve Resilience**

Implement programs to “harden” existing facilities and prevent disruption of service as a result of natural or other disasters.

### **Objective CSR 9.1**

### **Policy PFE 7.3.1**

All major repairs, reconstruction, or new construction of public facilities shall include design features to “harden” the facility and to add, where appropriate, self-sustaining energy source (i.e. solar with backup battery power) to enable these facilities to continue to provide services and be used as a safe haven during storm events.

**Policy CSR 9.1.1**

### **Policy PFE 7.3.2**

Ensure locally-owned public facilities that will be used as shelters, command centers, storage, staging, or demonstration areas meet the highest risk standards for new construction or substantial renovations.

**Policy CSR 8.5.8**

### **Policy PFE 7.3.3**

Plan for, construct, and maintain an emergency operations center (EOC) with a brick and mortar facility, staff, equipment, technology, and training that will meet current and estimated future needs of the City of Delray Beach. [Complete by 2025-2040]

**Policy CSR 8.5.8, 9.1.3**

### **Policy PFE 7.3.4**

Complete a renewable energy feasibility study on all City facilities within two years to identify opportunities for renewable energy projects to power municipal operations, minimize disruptions from major storms and weather events coupling renewable energy with backup power storage