



CAPITAL IMPROVEMENTS





CAPITAL IMPROVEMENTS

WHAT IS THE CAPITAL IMPROVEMENTS ELEMENT?

The Capital Improvements Element establishes standards, processes, and principles to support the facilities and services that are provided by the City to ensure that all residents and visitors of Delray Beach can use and enjoy quality infrastructure, facilities, and amenities for enhanced health, safety, and welfare.

CAPITAL IMPROVEMENT GOALS

GOAL CIE 1	CAPITAL IMPROVEMENT PLANNING, PROGRAMMING AND IMPLEMENTATION Plan, program, fund, and install public facilities and infrastructure and related capital improvements that serve the existing community and are necessary to accommodate future demand, in an effective and timely manner.
GOAL CIE 2	PUBLIC SAFETY AND QUALITY OF LIFE Provide public facilities and invest public funds to sustain and improve a high degree of public safety and quality of life.
GOAL CIE 3	SUSTAINABILITY AND RESILIENCY To prevent loss of property and protect public facilities, implement programs and strategies that mitigate impacts due to climate change.
GOAL CIE 4	TECHNOLOGY Invest public funds to enhance the City's use of technology to maintain and/or improve the level of service of its public facilities and services and to improve public safety, quality of life, and economic development.
GOAL CIE 5	ECONOMIC DEVELOPMENT Invest public funds to support the City's economic development goals and which maximize private investment.



GOAL CIE 1 CAPITAL IMPROVEMENTS, PLANNING, AND IMPLEMENTATION

PLAN, PROGRAM, FUND, AND INSTALL PUBLIC FACILITIES AND INFRASTRUCTURE AND RELATED CAPITAL IMPROVEMENTS THAT SERVE THE EXISTING COMMUNITY AND ARE NECESSARY TO ACCOMMODATE FUTURE DEMAND IN AN EFFECTIVE AND TIMELY MANNER.

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

- Meeting established and adopted Level of Service (LOS) standards.
- Maintaining regularly scheduled internal planning sessions held to prioritize, plan and monitor capital projects.
- Completing the annual infrastructure public hearing
- Annually adopting the Capital Improvements Plan
- Maintaining an annual inventory of infrastructure characteristics (i.e. age, outdated technology, condition) shall reflect "good" condition, or better, for 75% of total inventory.

Objective CIE 1.1 Maintain and Upgrade Existing Facilities.

Direct available financial resources to projects that maintain and upgrade existing public facilities to achieve and maintain the adopted levels of service and allocate enough reserves and annual recurring funding to address critical needs and system deficiencies.

Policy CIE 1.1.1

Continue the program for establishing and maintaining the schedule of improvements in the Capital Improvement Element.

Policy CIE 1.1.2

Coordinate projects providing water and sewer services to unserved, inhabited areas with other infrastructure work in the area, and include them in the Capital Improvement Plan to optimize cost efficiency and service delivery.

Policy CIE 1.1.3

Use the Stormwater Utility Fee to finance drainage improvements and the related maintenance and administration of the system.

Policy CIE 1.1.4

Maintain a funding source for the maintenance and repair of buildings and facilities; allocate funds for these purposes annually from general funds.

Policy CIE 1.1.5

Allocate funds annually to maintain and improve public facilities that serve existing development.

Policy CIE 1.1.6

Maintain a funding source for the timely replacement of irreparable or obsolete buildings, facilities, and major facility elements, and for upgrading of existing facilities to maintain their ability to deliver the established level of service for the community; allocate funding for these purposes annually from general funds or long-term financing.

Policy CIE 1.1.7

Maintain a General Fund Reserve equal to 21% to 25% of the recurring annual operating revenue, excluding major one-time costs, such as those related to bonding.

Policy CIE 1.1.8

Use water and sewer operating funds to provide for the repair, replacement, and upgrade of critical components of the water and sewer systems in the amount of 2.5% of the value of fixed assets, excluding land and works in progress.

Policy CIE 1.1.9

Allocate funds necessary to implement the 10-Year Water Supply Facilities Work Plan as adopted in the Capital Improvement Plan.

Policy PFE 2.5.4

Objective CIE 1.2 Programs and Procedures for Capital Improvements



CIE 1 CAPITAL IMPROVEMENTS, PLANNING, AND IMPLEMENTATION

Establish programs and procedures that require the provision of needed and desired improvements, as identified in other elements, and that manage the land development process so that needs created by development will not exceed the ability of the City to meet them.

Policy CIE 1.2.1

The list of capital projects contained in **Table CIE-1 Capital Improvements Plan** is hereby adopted and all projects identified be carried out in accordance with that schedule or within one-year thereof unless a comprehensive plan amendment is adopted to change the schedule.

Policy CIE 1.2.2

Establish the Capital Improvements Plan in accordance with the Guidelines for Prioritizing Capital Improvement Projects, as contained in this Element.

Policy CIE 1.2.3

Consider the following criteria in the amendment or modification of the Five Year Capital Improvements Plan:

- a) The highest priority shall be afforded to activities and projects which eliminate a public hazard whether it be to health or the reduction of damage potential.
- b) The second highest priority shall be given to public safety equipment replacement.
- c) The third highest priority shall be given to activities and projects which eliminate system deficiencies, less than desirable conditions or provide services to unserved, inhabited areas.
- d) Consideration shall be given to impacts upon the availability of funds for the project and for other projects; when appropriate for the purpose of providing financial resources for other needs, an activity or project may be phased over a period of time.

e) A project shall receive a higher priority when it can be combined with another project in the same geographic area, e.g. combining needed street improvements with scheduled water and sewer improvements may accelerate the street improvement project.

f) A project shall be accelerated on the schedule when it will receive significant funding assistance from a grant, development project, through neighborhood contributions, through an assessment district, or other method.

g) When a project can be funded through an exclusive funding source, it shall have a priority determined through that funding source regardless of its relationship to projects which are funded by other funding sources, e.g. a park constructed with dedicated park funding can have a higher priority than a mandatory need when the financing for the need is not available.

h) A project's priority shall increase if it can be tied to the construction of a project undertaken by another unit of government, e.g. water main upgrading and hydrant placements shall be coordinated with street improvements constructed by Palm Beach County.

i) A project's scheduling shall be consistent with respect to other projects which have been prioritized within other elements of this Plan, except as they may be modified through the criteria contained within this Policy.

Policy CIE 1.2.4

Prepare a Capital Improvement Plan each year for adoption that, in addition to a projection of the current year, includes the following:



CIE 1 CAPITAL IMPROVEMENTS, PLANNING, AND IMPLEMENTATION

- Publicly funded federal, state, and local government projects and unfunded projects over a five-year period, including priority levels of funding for projects necessary to achieve LOS standards
- Projects greater than \$25,000 that are funded through dedicated financial resources for renewal and replacement
- Projects greater than \$25,000 that are proposed, except for repair and replacement items identified and funded via renewal and replacement programs.
- Transportation improvements from the Transportation Planning Agency that are related to concurrency and financial feasibility.

Policy CIE 1.2.5

The first year of the Capital Improvement Plan will be the Capital Improvement Budget projected for the next year.

Policy CIE 1.2.6

Schedule the Capital Improvement Plan for review annually by the Planning and Zoning Board to determine consistency with the Comprehensive Plan prior to consideration by the City Commission.

Policy CIE 1.2.7

Whenever a grant that will fund a capital project becomes available, determine that either the grant will fund a previously identified need, or that obtaining the grant or its administration and the construction of the capital project will not diminish resources and activity directed toward meeting scheduled needs.

Policy CIE 1.2.8

In developing financial programs to fund needed capital projects, consider the following principles for the management of debt:

- a) Do not issue long term debt to finance current operating costs or normal, routine maintenance.

- b) Strive to maintain a gross bonded general obligation debt (general obligation bond principal) at a level not to exceed 2% of the assessed value of property within the city.
- c) Strive to ensure that the net bonded debt does not exceed \$700 per capita.
- d) Strive to ensure that the combined total of its direct net bonded debt and its share of overlapping debt issued within Palm Beach County does not exceed \$2,000 per capita.
- e) Strive to ensure that annual general bonded debt service costs (principal and interest) will not exceed 15% of General Fund Expenditures.
- f) Wherever possible, use Revenue, Self-Supporting, or Special Assessment Bonds instead of General Obligation Bonds.
- g) Relate the length of a bond issue to the useful life of the projects that it is financing; and, attempt to schedule Bond Issues so that an equal principal amount is retired each year over the life of the Issue, producing a total debt service schedule with a declining balance each year.
- h) Analyze the impact of the future debt service for each proposed borrowing upon projections of operating revenues and expenditures and make a finding that the impact will not diminish the City's ability to continue to provide services.
- i) Use long-term borrowing only for capital projects listed in the Capital Project Schedule of this Element.

Policy CIE 1.2.9

The City of Delray Beach hereby adopts the Level of Service (LOS) standards as set forth in **Table CIE-2 Level of Service Standards**, as the levels of service for public facilities within the City's municipal boundaries and planning area.



CIE 1 CAPITAL IMPROVEMENTS, PLANNING, AND IMPLEMENTATION

Objective CIE 1.3 Concurrent Improvements for New Development or Redevelopment.

Concurrent with new development or redevelopment, the City of Delray Beach shall require the development to include needed and desired improvements as identified in this plan and improvements required to address the development's impact on public facilities and/or the respective LOS.

Policy CIE 1.3.1

Wherever the term "concurrent" is used in this Element and other elements of the Plan, it shall mean that the public facility capacity needed to satisfy the adopted level of service standards established in this Plan shall be in place and operational under the following conditions:

- a) The improvement is guaranteed to be completed prior to the issuance of a certificate of occupancy on the basis of financial surety provided by the developer, or the inclusion of the funded improvement in the schedule of capital improvements;
- b) In the case of public school facilities, concurrency may also be met if
 - adequate school capacity is available in a contiguous Planning Area; or
 - adequate school capacity will be available in the City of Delray Beach Planning Area based on improvement projects programmed in the School District of Palm Beach County Five Year Capital Improvement Schedule that will commence construction within three years of either a final plat or site plan approval; or
 - if a legally binding commitment is executed to provide mitigation proportionate to the demand for public school facilities created by the

development pursuant to the mitigation options established in the Public Schools Facilities Element and the Interlocal Agreement.

- c) For roadways, a project may also satisfy concurrency if the developer enters into a binding agreement to pay for or construct its proportionate fair-share of required improvements pursuant to F.S. 163.3180 and Article 8.6 of the Land Development Regulations.

Objective CIE 1.4 Proportionate Fair Share.

Continue to require future development and redevelopment pay its proportionate share for providing or expanding public facilities to maintain adopted levels of service and be responsible for the extension of public facilities to the site of development.

Policy CIE 1.4.1

Continue to require impact fees for water and sewer connection and for park facilities.

Policy CIE 1.4.2

Continue to endorse the Palm Beach County Traffic Impact Fee Program and the collection and transfer of funds pursuant to the program.

Policy CIE 1.4.3

Coordinate with Palm Beach County in the mobility fee planning process to explore the feasibility of implementing a mobility fee to fund multimodal improvements in the city as an alternative to roadway concurrency.

Policy CIE 1.4.4

Continue to require the dedication of rights-of-way for alleys, streets and utility system easements concurrent with the appropriate stage of granting of development orders; the size and location of such dedications shall be consistent with the Mobility and Public Facilities Elements.

Policy CIE 1.4.5



CIE 1 CAPITAL IMPROVEMENTS, PLANNING, AND IMPLEMENTATION

Require new development to extend public utilities for water, sewer, and drainage to the furthest portions of the property which is being developed in a manner so that adjacent property will have access to the facilities, unless the City Engineer determines no other development will occur at the end of such extensions.

Policy CIE 1.4.6

Require new development to install sidewalks along abutting streets and be responsible for the construction of one-half of any street or alley which abuts the property being developed whether it serves the development or not. The developer's responsibility is limited to one-half of a local street or alley unless the improvement is needed to meet LOS standards, in which case full improvement is required.

Objective CIE 1.5 Coordination with Land Use.

Maintain programs and procedures to ensure that the land use decision-making process is coordinated with the Capital Improvement Element.

Policy CIE 1.5.1

Review all new development in terms of the Level of Service Standards in **CIE - Table 2**.



CIE 2 PUBLIC SAFETY AND QUALITY OF LIFE

PROVIDE PUBLIC FACILITIES AND INVEST PUBLIC FUNDS TO SUSTAIN AND IMPROVE A HIGH DEGREE OF PUBLIC SAFETY AND QUALITY OF LIFE.

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

- Infrastructure investments budgeted to support new and improved public facilities that improve public safety and quality of life.
- Programming and installation of infrastructure projects identified in City master plans.

Objective CIE 2.1 Fiscal Evaluation of Programs.

Programs and activities identified in this and other elements will be evaluated using the fiscal policies established in this element.

Policy CIE 2.1.1

All projects and activities identified in this Element shall be included on the Capital Improvement Plan.

Policy CIE 2.1.2

The projects and activities identified in this element shall be subject to the rules of implementation of the schedule, with the exception of changes in priority or timing which may be enacted as local amendments to the Comprehensive Plan.

Policy CIE 2.1.3

The School District of Palm Beach County Five-Year Capital Improvement Schedule is adopted as a supplement to the City of Delray Beach's "Capital Improvements Plan".

Objective CIE 2.2 Capital Investments in Complete Streets.

Support capital investments in right-of-way infrastructure projects that implement the goals and principles of Complete Streets, where appropriate.

Policy CIE 2.2.1

Incorporate the adopted Complete Streets Policy and its long-range goals into the planning, scoping, budgeting, funding, design, approval and implementation process for all city roadways and right-of-way infrastructure projects, where appropriate.

Policy CSR 1.4.8

Policy PFE 6.1.2

Policy MBL 1.2.2

Policy CIE 2.2.2

Prioritize public infrastructure projects that provide safe and comfortable routes for walking, bicycling, using golf carts, and riding public transportation to increase use of these modes of transportation, enable convenient and active travel as part of daily activities, reduce pollution, and meet the needs of all users of the streets, including children, families, older adults, and people with disabilities.

Policy MBL 2.4.3

Policy CIE 2.2.3

Consult City master plans and policies related to pedestrian, bicycle, transit, and vehicle transportation to advance and integrate multiple goals, including high-quality public spaces, place-making projects, "Green Streets", expanding the tree canopy and landscaping beautification.

Policy CIE 2.2.4

Require projects to provide or seek resources to acquire necessary right-of-way and/or easements or to provide separate accommodations within the existing right-of-way for each mode of travel, if right-of-way acquisitions are cost prohibitive.



CIE 3 SUSTAINABILITY AND RESILIENCY

TO PREVENT LOSS OF PROPERTY AND PROTECT PUBLIC FACILITIES, IMPLEMENT PROGRAMS AND STRATEGIES THAT MITIGATE IMPACTS DUE TO CLIMATE CHANGE.

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

- Completion of projects that “harden” existing facilities
- Percentage of new public facilities that achieve green building certification
- Completion of a renewable energy feasibility study

Objective CIE 3.1 Protect Against Climate Change and Natural Disasters

During the annual Capital Improvements Project planning process, prioritize and fund projects and programs intended to enhance protection of infrastructure and development against the impacts of climate change and the effects of natural disasters.

Objective CME 3.2

Policy CIE 3.1.1

Limit the amount and type of public infrastructure investments in the Coastal High Hazard Area to minimize the impacts and costs to the City as a result of a disaster.

Policy CME 3.2.1

Policy CIE 3.1.2

Work to ensure that adaptation to climate change impacts, especially sea level rise, is incorporated into the planning, siting, construction, replacement, and maintenance of public infrastructure in a manner that is cost effective and that maximizes the viability of the infrastructure.

Policy CME 3.2.2

Policy CIE 3.1.3

Analyze and determine whether to build, modify, or relocate public infrastructure to allow for strategic retreat from areas at risk to sea level rise.

Policy CME 3.2.4

Policy CIE 3.1.4

Pursue state and federal funding to support adaptation planning, assessment, and mitigation.

Policy CIE 3.1.5

Prioritize funding for adaptation planning, assessment, and mitigation and include such projects in the schedule of capital improvements.

Policy CIE 3.1.6

Require green building certification for all new public buildings.

Policy CSR 5.1.6

Policy CIE 3.1.7

Complete a renewable energy feasibility study on all City facilities within two (2) 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 and establish a renewable energy target for municipal operations. [Complete by 2022]

Policy CSR 5.2.8

Policy CIE 3.1.8

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 8.5.15

Policy PFE 7.2.2

Policy CIE 3.1.9

Consistent with the City of Delray Beach Intracoastal Waterway Water Level & Infrastructure Vulnerability Study, establish a program to accommodate necessary repair, replacement, and maintenance of City-



CIE 3 SUSTAINABILITY AND RESILIENCY

owned seawalls and stormwater outfalls along the Intracoastal Waterway and canals.

Policy CME 3.3.5

Policy CSR 8.1.5

Policy CIE 3.1.10

Train and educate staff on best practices related to resiliency and sustainability, and encourage participation and collaboration with local, regional, and state Strategic Partners addressing issues such as, climate change impacts, renewable energy advancement, the development of new water resource strategies, etc.

Objective CIE 3.2 Limits to Barrier Island Subsidies.

Limit public expenditures on the barrier island that subsidize increased development intensities or development that adversely affects hurricane evacuation times.

Policy CIE 3.2.1

Do not use public expenditures to subsidize expanded development on the barrier island, unless such expenditures are:

- necessary to provide services to development allowed by the Land Use Map;
- provide for recreational needs;
- maintain, restore or enhance natural resources;
- maintain adequate evacuation times;
- maintain or enhance public beach access; and, public
- promote access via walking, bicycling, or riding transit.

Policy CME 2.7.2

Policy CIE 3.2.2

Limit the use of public funds in the Coastal High Hazard Area to those projects that

- Provide a Level of Service for infrastructure that is sufficient for reasonable use of the land with respect to traffic, solid waste, water supply,

drainage, and sewage capacity and considers future flood risk.

- Provide adequate evacuation in case of an emergency,
- Provide public access to the water,
- Provide recreational needs and other water-related uses in a manner consistent with the preservation of existing natural resources
- Improve the resiliency of the area against the impacts of climate change;
- Promote access via walking, bicycling or riding mass transit.



CIE 4 TECHNOLOGY

INVEST PUBLIC FUNDS TO ENHANCE THE CITY'S USE OF TECHNOLOGY TO MAINTAIN AND/OR IMPROVE THE LEVEL OF SERVICE OF ITS PUBLIC FACILITIES AND SERVICES AND TO IMPROVE PUBLIC SAFETY, QUALITY OF LIFE, AND ECONOMIC DEVELOPMENT.

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

- 🎯 Completion of an assessment of technological needs to provide more efficient service to the community
- 🎯 Percentage of the City's budget dedicated to improving technology

Objective CIE 4.1 High Speed Internet.

Explore options for improving access to high speed internet.

Policy CIE 4.1.1

Assess the need, determine necessary improvements, and identify funding sources to provide access to high speed internet.

Policy CIE 4.1.2

Coordinate with strategic partners to increase access to computers and technology to reduce the "digital divide" among residents.

Objective CIE 4.2 Technological Upgrades to City Facilities.

To more efficiently serve the public, invest in technological upgrades to its systems.

Policy CIE 4.2.1:

Continue to evaluate and fund technological upgrades that improve efficiency and the customer service experience.

Policy CIE 4.2.2:

Continue to use new technology to better share information with the public.

Policy CIE 4.2.3

Maintain a funding source for replacement of irreparable or obsolete office equipment, replacement of computer hardware and software and replacement of other major pieces of equipment. Funds for these purposes will be allocated annually from general funds.



CIE 5 ECONOMIC DEVELOPMENT

INVEST PUBLIC FUNDS TO SUPPORT THE CITY'S ECONOMIC DEVELOPMENT GOALS AND WHICH MAXIMIZE PRIVATE INVESTMENT

Performance Measures: Success in addressing the Objectives and Policies of **Goal CIE 5** (Economic Development) shall be measured utilizing the following performance indicators:

- Identification and programming of infrastructure projects needed to support specific industry clusters
- Continuing public information practices, such as web-site postings, direct mail, digital mail, etc., to inform residents and business owners of infrastructure projects.

Objective CIE 5.1 Capital Improvement Projects.

Support capital improvement projects that further the City's Economic Development goals.

Policy CIE 5.1.1

Coordinate with strategic partners, including the Downtown Development Authority, Community Redevelopment Agency, Chamber of Commerce and other local business representatives, to identify, plan, and provide the necessary public infrastructure to enable businesses to operate successfully and direct new businesses to areas that can adequately serve their infrastructure needs.

Policy ECP 6.1.2

Policy CIE 5.1.2

Continue to publicize the purpose, phasing, and goals of major capital improvements to inform business owners and potential developers of the City's commitment of providing a quality infrastructure system.

Policy CIE 5.1.3

Continue to maintain and expand infrastructure and other public amenities, including cultural and recreational assets, to sustain the quality of life enjoyed by residents and attractive to outside businesses.



Table CIE-2 Level of Service Standards	
FACILITY	STANDARDS
Sewer Treatment System	
🌸 Generation Inflow	415 100 gal per person per day.
🌸 Plant Design Capacity	24 mgd average / 30 mgd peak.
Water Treatment System	
🌸 Finished Water Usage	234.8 216.5 gal per person per day
🌸 Storage	15% of maximum flow + fire reserve at 1.5 mg + emergency reserve at 25% of storage 25% of maximum daily flow + design fire flow for 4 hours
🌸 Raw Water	19.10 mgd Average Daily Flow (ADF)
🌸 Permitted Water Treatment Capacity	26 mgd Maximum Daily Flow (MDF)
🌸 Water Pressure	20 psi, minimum.
Solid Waste	
🌸 Generation Inflow	7.13 pounds per capita per day.
Drainage	
🌸 South Florida Water Management District Standard	Retention of the first one inch of runoff for the entire site or 2.5 inches of water storage times the percentage of impervious areas, to protect water quality.
Roads	
🌸 Local Streets	"E" under any condition.
🌸 City Collectors and Arterials	"E" under any conditions.
🌸 County Streets	"D" under any conditions, per the adopted County level of service. Basis for calculations are the County Traffic Performance Standards.
🌸 State Facilities	"D" Under any conditions
🌸 SIS Facilities	"E" for I-95 and "D" for the Tri-Rail connector (Atlantic Avenue westward from I-95 to Congress Avenue and Congress Avenue southward to the Tri-Rail Station)
Coastal Zone Levels of Service	
	Sufficient for reasonable use of the land with respect to traffic, solid waste, water supply, drainage, and sewage capacity and considers future flood risk
Source: The City of Delray Beach	



STRATEGIC PARTNERSHIPS

LIVE



GOALS, OBJECTIVES, AND POLICIES

GOAL SPE 1 PUBLIC PARTNERSHIPS

GOAL SPE 2 PUBLIC PRIVATE PARTNERSHIPS

GOAL SPE 3 COMMUNITY ENGAGEMENT AND PARTNERSHIPS

WORK



PLAY



GROW





STRATEGIC PARTNERSHIPS ELEMENT

WHAT IS THE STRATEGIC PARTNERSHIPS ELEMENT?

The Strategic Partnerships Element provides the structure for engaging the City's public and private sector partners to work together to solve complex, interconnected problems, to effectively leverage funding mechanisms, to foster inter-disciplinary relationships in areas of practice that cross geographic boundaries and to ensure the support of its residents in order to implement the vision of the Comprehensive Plan.

STRATEGIC PARTNERSHIPS GOALS

GOAL SPE 1	PUBLIC PARTNERSHIPS ESTABLISH AND MAINTAIN EFFICIENT AND EFFECTIVE PROGRAMS OF PUBLIC COORDINATION WITH LOCAL, REGIONAL AND STATE ENTITIES
GOAL SPE 2	PUBLIC-PRIVATE PARTNERSHIPS PURSUE NEW RELATIONSHIPS AND IMPROVE EXISTING RELATIONSHIPS WITH PRIVATE AND NON-PROFIT AGENCIES, BUSINESS GROUPS, EDUCATIONAL, ENVIRONMENTAL, CULTURAL, RECREATIONAL AND SOCIAL ORGANIZATIONS SPECIALIZING IN CAPACITY BUILDING AND COMMUNITY PROGRAMS
GOAL SPE 3	COMMUNITY ENGAGEMENT AND PARTNERSHIPS CONTINUE TO BUILD AND SUSTAIN ROBUST PARTNERSHIPS WITH RESIDENTS, STAKEHOLDERS, AND NEIGHBORHOOD AND COMMUNITY GROUPS TO FOSTER AN ENGAGED CIVIC COMMUNITY



GOAL SPE 1 PUBLIC PARTNERSHIPS

ESTABLISH AND MAINTAIN EFFICIENT AND EFFECTIVE PROGRAMS OF PUBLIC COORDINATION WITH LOCAL, REGIONAL AND STATE ENTITIES

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

- Number of notifications provided to adjacent municipalities for review of private development within the specified timeframe; and,
- Number of successful outcomes using the Countywide Intergovernmental Coordination program to prevent the concentration of locally unwanted land uses, such as solid waste disposal facilities.

Objective SPE 1.1 Collaborative Partnerships

Improve intergovernmental relationships to enhance and maximize service to Delray Beach's residents, businesses, and visitors by sharing information, participating in local and regional agencies, establishing cooperative procedures for implementing Joint Planning Areas, and following established procedures for dispute resolution.

Policy SPE 1.1.1

Use the Palm Beach Countywide Intergovernmental Coordination Program (facilitated through the Interlocal Plan Amendment Review Committee) as a regular formal forum to share information and to deal with issues unique to Palm Beach County and its municipalities. The Multi-Jurisdictional Issues Coordination Forum shall be used as a means of collaborative planning for matters of inter-jurisdictional significance.

Policy SPE 1.1.2

Encourage relationships that facilitate data sharing (such as GIS); storm water management; economic development (special events and capacity building organizations); and emergency preparedness.

Policy ECP 7.1.1

Policy SPE 1.1.3

Establish protocols and schedules for routine communication between departments and other units of government.

Policy SPE 1.1.4

Provide information to residents about the benefits of intergovernmental coordination.

Policy SPE 1.1.5

Continue to actively participate by representation and through attendance at meetings with regional and local agencies including Treasure Coast Regional Planning Council (TCRPC), Palm Beach Transportation Planning Agency (Palm Beach TPA), South Florida Water Management District (SFWMD), Palm Tran (Palm Beach County's Public Transportation Agency), Interlocal Plan Amendment Review Committee (IPARC), Palm Beach County School Board and Palm Beach Countywide Beaches and Shores Council.

Policy SPE 1.1.6

Continue to participate in professional organizations, and attend or initiate local collaborative meetings, workshops and conferences where information is shared and networking occurs to build relationships with professional counterparts in other municipalities and government agency.

Policy SPE 1.1.7

Coordinate with Palm Beach County, through execution of an interlocal agreement with Palm Beach County as required by Florida Statutes, to designate portions of the unincorporated areas within the Delray Beach Planning Area as "Joint Planning Areas" for the purpose of future annexations, as amended, with those areas subject to the policies of the Neighborhoods, Districts, and Corridors Element. [Completed within one year of the adoption of the Comprehensive Plan]

Policy SPE 1.1.8

Continue to require that all annexations by the City be supported by data and analysis of



GOAL SPE 1 PUBLIC PARTNERSHIPS

demonstrated need, consistency, concurrency, compatibility, and compliance pursuant to the Neighborhoods, Districts, and Corridors Element, and the ability of the City to meet the individual services needs through coordination with other agencies and municipalities.

Policy SPE 1.1.9

Future annexations by the City will be carried out in accordance with the Neighborhoods, Districts, and Corridors Element and shall be consistent with adopted annexation policies of Palm Beach County; consistency shall be determined by specific notification of each annexation to the Palm Beach County Planning Director and concurrence by the Palm Beach County Planning Department.

Policy SPE 1.1.10

Annex eligible properties in the Planning Area prior to the provision of City water service; for such properties that are not yet eligible for annexation (e.g., not yet contiguous to the municipal boundary), water service may be provided with an executed agreement to voluntarily annex upon eligibility.

Policy SPE 1.1.11

Coordinate annexation efforts and water supply planning with Palm Beach County on an annual basis regarding to the provision of water service to future annexation areas.

Policy SPE 1.1.12

Work to resolve inter-jurisdictional disputes in an expeditious and cooperative manner; however, the City will take the necessary actions to protect its residents and property owners.

Policy SPE 1.1.13

When a plan amendment, development application, and any other project or activity of another governmental entity is in conflict with the City's Comprehensive Plan, the impact of the conflict and its significance shall immediately be communicated in writing. Such communication shall also include a request for an intergovernmental meeting to seek resolution of the conflicting issue(s).

Policy SPE 1.1.14

When efforts to resolve disputes between the City and other local governments result in an impasse, the item will first be taken to the Multi-Jurisdictional Issues Coordination Forum for review and direction. If further resolution is still necessary, the informal mediation process provided by the Treasure Coast Regional Planning Commission shall be pursued by the City of Delray Beach.

Objective SPE 1.2 Plan Amendments

Continue to coordinate the review of Plan Amendments with the Interlocal Plan Amendment Review Committee (IPARC) and other public agencies responsible for reviewing Plan Amendments.

Policy SPE 1.2.1

Review amendments to plans of adjacent units of government pursuant to the formal plan amendment review program, and issue a statement of "intent to object" from the City Manager, or his designee, when the actions of another municipality may affect Delray Beach. Such situations may be analyzed by the Local Planning Agency who shall recommend to the City Commission any formal objection which is to be made.

Policy SPE 1.2.2

Provided notification of proposed Comprehensive Plan amendments to all local units of government in Palm Beach County through the Intergovernmental Plan Amendment Review Committee (IPARC), and to affected adjacent municipalities and service providers through direct notification.

Policy SPE 1.2.3

Maintain a listing of entities in the City Manager's Office, through the Planning, Zoning, and Building Department affected by this Plan and provide them information regarding City actions that affect the provision of services or plans for facilities which affect them.

Policy SPE 1.2.4

Throughout the planning period, the City shall include in a plan amendment review specific provisions for consistency review of development proposals with the Treasure Coast Regional Policy



GOAL SPE 1 PUBLIC PARTNERSHIPS

Plan, Palm Beach County Comprehensive Plan, and State of Florida Comprehensive Plan, and other plans as appropriate.

Policy SPE 1.2.5

Review of plan amendments within Delray Beach shall include a statement indicating the relationship of the proposed amendment to the existing Comprehensive Plans of affected adjacent local governments.

Objective SPE 1.3 Development Review

Continue to implement the established procedures for planning activities that affect multi-jurisdictions and other public agencies in the development review process.

Policy SPE 1.3.1

Continue to work closely with the Palm Beach County School Board, adjacent municipalities, Palm Beach County, and other affected regional, state and national governmental agencies to inform affected entities of development proposals within the city so as to address the impacts of such development in a timely, coordinated fashion.

Policy SPE 1.3.2

Provide a copy of a development application or development activity description to the affected unit of government within 10 days of submittal to the City whenever a private development proposal that requires development review is located within one-quarter mile of the municipal boundary.

Policy SPE 1.3.3

Coordinate with Palm Beach County and adjacent municipalities to ensure the use of common or standardized terms in the land development regulations.

Policy SPE 1.3.4

Participate in meetings of existing planning groups and agencies to exchange information and coordinate adopted LOS standards with agencies within the planning area.

Policy SPE 1.3.5

Continue to work closely with the Palm Beach County School Board, other municipalities, Palm Beach County, and affected regional, state and

national governmental agencies having operational and maintenance responsibilities, to establish coordinated LOS standards for public facilities.

Policy SPE 1.3.6

During review of any Plan amendment which involves changes to the LOS standard, letters shall be sent to each entity which is affected by a LOS standard adopted pursuant to this Plan. The letter shall request concurrence with the proposed standard. Additional information as to the basis of the LOS standard shall be provided to said entities upon request.

Objective SPE 1.4 Agency Coordination and Facilities Planning

Continue to work closely with Palm Beach County, Palm Beach County School Board, other municipalities and affected regional, state and federal governmental agencies to plan for the siting of facilities with county-wide significance or locally unwanted land uses.

Policy SPE 1.4.1

Utilize the Palm Beach Countywide Intergovernmental Coordination Program (facilitated through the Interlocal Plan Amendment Review Committee) as a regular formal forum to establish processes to plan for the siting of facilities with countywide significance or locally unwanted land uses, such as solid waste disposal and recycling facilities or correctional facilities.

Policy SPE 1.4.2

Ensure equitable geographic distribution of facilities so not to burden any particular local municipality, community or neighborhood with a concentration of undesirable uses such as, but not limited to refuse recycling facilities, penal institutions.

Policy SPE 1.4.3

Continue to improve communication between Palm Beach County, Palm Beach County School Board and with other local governments, regarding future facility planning to ensure that opportunities for shared facilities are discussed at the earliest stage of the planning process.



GOAL SPE 1 PUBLIC PARTNERSHIPS

Policy SPE 1.4.4

Collocate facilities, where feasible, for recreational and school sites, including parks, and walking trails.

Policy SPE 1.4.5

Continue to coordinate planning and permitting processes between the City of Delray Beach, Palm Beach County, and the School District of Palm Beach County in accordance with the procedures established within the 2017 adopted Interlocal Agreement for the planning of school facilities.

Policy SPE 1.4.6

Coordinate with the School District of Palm Beach County regarding the objectives and policies contained in the Education Element, particularly those which provide mutual obligations for the enhancement of schools in Delray Beach and the furtherance of School District policies.

Policy SPE 1.4.7

Coordinate the preparation of population projections for future development with Palm Beach County's projections and the School Board's school enrollment projections to ensure consistency between the County and City land use maps and the long-term school planning process.

Policy SPE 1.4.8

Coordinate with Palm Beach County School Board on the planning, siting, land acquisition, permitting and development of new school facilities to ensure the availability of public facilities, services and grounds, especially for purposes of exploring collocation opportunities.

Policy SPE 1.4.9

Coordinate with the School District of Palm Beach County through the oversight committees, the preparation of Palm Beach County and the City annual comprehensive plan updates, and the School Board's annual update of the Five-Year Capital Improvements Plan to ensure consistency between the plans.

Policy SPE 1.4.10

Coordinate with the School Board of Palm Beach County and Palm Beach State College to expand educational programs that supplement the skills of working age residents for career development.

Policy ECP 1.1.1, 1.1.4

Policy EDU 3.2.2

Policy SPE 1.4.11

Continue to work with the Palm Beach School Board to expand the Joint Use Agreements for the use of school facilities for the operations of recreation programming to make the most efficient use of public resources.

Objective SPE 1.5 Community Assets and Services

Continue coordination and education efforts to protect and enhance the city's assets, both natural and built, to achieve the maximum quality of life for residents and visitors.

Policy SPE 1.5.1

Coordinate with transportation strategic partners regarding transportation planning and service provision.

Policy SPE 1.5.2

Continue to actively participate in the Palm Beach Transportation Planning Agency capital planning process and serve on the Agency's Boards, as needed.

Policy SPE 1.5.3

Continue to be actively involved in planning for future public transportation services with Palm Tran, Palm Beach Transportation Planning Agency, South Florida Regional Transportation Authority and Florida Department of Transportation.

Policy SPE 1.5.4

Continue planning efforts for the areas adjacent to the proposed Tri-Rail Coastal Link station and prioritize capital improvements programming that support mass transit in the vicinity of designated transit stations.

Policy SPE 1.5.5

Continue to coordinate Bicycle and Pedestrian plans completed by Human Powered Delray, Palm Beach Transportation Planning Agency, Palm



GOAL SPE 1 PUBLIC PARTNERSHIPS

Beach County and Florida Department of Transportation to increase opportunities for funding and improvements.

Policy SPE 1.5.6

Review the division of responsibilities between the City, other governmental entities and private entities, for service provision within Delray Beach and implement intergovernmental strategies for improving the effectiveness, efficiency and responsiveness of service provision within the Delray Beach Planning Area.

Policy SPE 1.5.7

Continue to maintain potable water service agreements and associated service provision commitments with adjacent municipalities.

Policy SPE 1.5.8

Support the efforts to integrate land use and water resource planning to ensure the availability of water for regional water management purposes. Accordingly, the South Florida Water Management District shall be designated as a commenting agency on large-scale plan amendments and other projects with potential impacts on regional water resources and programs, and shall be encouraged to provide comments prior to any action on the amendments, rezonings, or development projects with regional impacts by the Planning & Zoning Board (Local Planning Agency) or the City Commission.

Policy SPE 1.5.9

Coordinate water supply planning efforts regarding population projections and water demand with those of the Town of Gulfstream, to which it provides water service. Accordingly, on an annual basis, following the receipt of Bureau of Economic and Business Research (BEBR) population estimates, the City shall meet with the Town of Gulfstream to discuss the population estimates, conservation measures and any changes that might affect its future water demand.

Policy SPE 1.5.10

Continue to 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, and update the Working Plan within 18 months following an update of the Regional Water Supply Plan.

Policy SPE 1.5.11

Continue to coordinate water supply planning with the South Florida Water Management District, and report on the status of the water supply projects to the District by November 15 of each year.

Policy SPE 1.5.12

Coordinate with the South Florida Water Management District through the consumptive use permit renewal process (expires in 2030). ~~This coordination shall be focused on determining how the reclaimed water projects will offset further withdrawals from the Surficial aquifer.~~

Policy SPE 1.5.13

Continue to work with Lake Worth Drainage District to allow the utilization of canals right-of-way for pedestrian and bike trails.

Policy SPE 1.5.14

Continue to work with non-profit organizations, such as the Delray Beach Community Land Trust, Habitat for Humanity, and Community Development Corporation to expand the affordable and workforce housing program.

Policy SPE 1.5.15

Continue to support the Delray Beach Housing Authority to expand its Section 8 Voucher and certificate programs.

Policy SPE 1.5.16

Coordinate with Palm Beach County and adjacent municipalities to develop joint strategies to address the homeless population.

Policy SPE 1.5.17

Continue to coordinate with the Division of Historical Resources of the Florida Department of State and Palm Beach County Historic Preservation/Archeology Division to identify and document the city's historic resources.

Policy HPE 2.1.1

Policy SPE 1.5.18

Partner with Florida Department of Environmental Protection and Florida Power and Light (FPL) for an on-going education program to inform property



GOAL SPE 1 PUBLIC PARTNERSHIPS

owners and landscape professionals about the importance of planting the right type of tree in the right location (FPL's Right Tree, Right Place Program), practicing proper pruning and maintenance schedules, maintaining air quality and improving the environment with trees, and preserving the strength and integrity of historic trees in Delray Beach. The partners in this "tree preservation and education group" should communicate regularly, establish performance measures to gauge progress, collaborate under unique circumstances that combine shared interests (Earth Day), share resources on social media platforms, and set milestones to re-visit and update education materials.

Policy SPE 1.5.19

Coordinate with regional agencies and adjacent jurisdictions regarding natural resource and environmental protection efforts.

Policy CME 5.1.1

Policy SPE 1.5.20

Continue to work with other local, state, and regional partners to address issues related to air quality and greenhouse gas emissions.

Policy CSR 7.4.1

Policy SPE 1.5.21

Work with the South Florida Water Management District and the Lake Worth Drainage District to address water resources and balance their interest with citywide policies regarding land-use, access and recreation.

Policy SPE 1.5.22

Partner with, and apply for grant funding available through state, federal, and non-profit organizations that benefit protection or enhancement of natural resources or environmental protection.

Policy SPE 1.5.23

Coordinate climate change adaptation policies and strategies for preparing for sea level rise across jurisdictional boundaries and ensure consistency among broader planning and plan implementation efforts.

Policy CME 3.1.2, 5.1.3

Policy SPE 1.5.24

Continue established and ongoing programs for emergency preparedness, emergency evacuation, and disaster relief and enhance and expand such programs through periodic reviews, strategic review, and debriefing after an emergency event that includes community representatives such as churches, schools, and shelters.

Policy CME 4.1.5

Policy SPE 1.5.25

Continue participation with Strategic Partners, including the Southeast Florida counties and municipalities, academia, and state and federal government agencies in the analysis of sea level rise, drainage, storm surge and hurricane impacts and the planning of mitigation and adaptation measures. Coordinate to create and support new initiatives and incorporate new data, such as updated sea level rise projections, into future decision-making. Coordinate efforts with the latest version of the Regional Climate Action Plan and other appropriate regional planning initiatives.

Policy CME 3.1.2

Policy CSR 8.6.2

Policy SPE 1.5.26

Continue coordinating efforts with the Palm Beach County Department of Public Safety's Division of Emergency Management and Palm Beach County Local Mitigation Strategy Working Group and sub-committees to promote local strategies and projects to reduce long-term risks to life and property from natural, technological, and human caused disasters.

Objective SPE 1.6 Mobility Coordination

Maintain and improve inter-governmental collaboration and coordination among local, county, regional, and state transportation strategic partners, including transit service providers.

Policy SPE 1.6.1

Coordinate transportation projects located within the city and those that extend beyond the city limits that are part of the regional and state transportation system with strategic partners to meet the current and future needs of all road and



GOAL SPE 1 PUBLIC PARTNERSHIPS

transit users, including visitors and seasonal residents.

Policy MBL 1.2.1

Policy SPE 1.6.2

Coordinate the planning and adoption of the Mobility Plan and Fee with strategic partners to successfully expand reliable transportation opportunities for all road and transit users.

Policy MBL 1.1.1, 1.1.3, 1.1.6, 1.1.7

Policy SPE 1.6.3

Review and collaborate with strategic partners on roadway projects located on the Strategic Intermodal System, on the State Highway System, in Palm Beach County, and in adjacent municipalities to meet the needs of roadway users living and visiting the city.

Policy MBL 1.2.3

Policy SPE 1.6.4

Partner with transit providers, transportation planning agencies, and when appropriate, private sector partners, to identify, plan, and promote the development of lands suitable for transportation-oriented development.

Policy MBL 1.3.1, 1.3.2

Policy SPE 1.6.5

Participate in safety campaigns and cultivate partnerships with strategic partners to promote an all ages and abilities transportation system that is safe, convenient, and comfortable for users.

Policy MBL 2.1.1

Policy SPE 1.6.6

Utilize the Delray Beach Complete Streets Policy, where appropriate, to ensure roadway design meets the needs of all transportation system users, recognizing other policies and guidelines adopted by strategic partners may provide helpful input.

Policy MBL 1.2.3



GOAL SPE 2 PUBLIC-PRIVATE PARTNERSHIPS

PURSUE NEW RELATIONSHIPS AND IMPROVE EXISTING RELATIONSHIPS WITH PRIVATE AND NON-PROFIT AGENCIES, BUSINESS GROUPS, EDUCATIONAL, ENVIRONMENTAL, CULTURAL, RECREATIONAL AND SOCIAL ORGANIZATIONS SPECIALIZING IN CAPACITY BUILDING AND COMMUNITY PROGRAMS

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

- Number of new partnerships with private organizations and community advocacy groups established with the City; and,
- Number of private partnerships that have effectively completed a defined goal or service requested by the City.

Objective SPE 2.1 Private and Nonprofit Organizations

Increase efforts to build new public-private partnerships and expand existing partnerships to improve the quality of life for Delray Beach residents.

Policy SPE 2.1.1

Explore the development of a centralized incubator for information sharing and coordination platform with private and non-profit organizations and community groups to assist in the provision of service to the residents of Delray Beach.

Policy SPE 2.1.2

Foster improved coordination among City departments and other City agencies such as the Community Redevelopment Agency, the Downtown Development Authority and the Delray Beach Marketing Cooperative to utilize their expertise in marketing and outreach to promote recreational programs, and health and wellness related campaigns.

Policy SPE 2.1.3

Explore partnering with the business community to develop a mentor program for locally-owned businesses through the City's Office of Economic Development.

Policy ECP 2.4.3, 4.1.1

Policy SPE 2.1.4

Strengthen partnerships with the local universities and colleges to integrate educational programs with conservation and sustainability policies and projects.

Policy SPE 2.1.5

Continue to coordinate with local colleges and universities to establish educational programs at the most accessible sites within the City's Planning Area, including public buildings, such as the Delray Beach Public Library and the City of Delray Beach Community Centers.

Policy SPE 2.1.6

Collaborate with educational and business partners in developing a comprehensive education program that focuses on the range of skills (i.e., literacy, interpersonal skills, and vocational skills) needed for gainful employment.

Objective ECP 1.1

Policy SPE 2.1.7

Work with the Chamber of Commerce and regional partners in the creation of a program to match education skills with business needs.

Objective ECP 1.1; Policy ECP 2.5.4

Policy SPE 2.1.8

Establish a community taskforce to create a historic tree inventory and monitoring system to create stronger mechanism for protecting historic trees. [Complete by 2022]

Policy HPE 1.5.5

Policy SPE 2.1.9

Coordinate with private partners involved in the creative arts to establish policies and programs in building a cultural master plan. [Complete by 2025]



GOAL SPE 2 PUBLIC-PRIVATE PARTNERSHIPS

Policy SPE 2.1.10

Explore new partnerships between local organizations and the City to maintain and improve local parks and open space through campaign events.

Policy SPE 2.1.11

Develop an integrated emergency mitigation and response plan through coordination with public-private sector partners, such as hospitals, major employers, Palm Beach County School District, etc.

Policy SPE 2.1.12

Explore the use of City land resources to facilitate the activities of private and non-profit groups that promote greening, including the development of community gardens and the expansion of the tree canopy.



GOAL SPE 3 COMMUNITY ENGAGEMENT AND PARTNERSHIPS

CONTINUE TO BUILD AND SUSTAIN ROBUST PARTNERSHIPS WITH CITY OF DELRAY BEACH RESIDENTS, STAKEHOLDERS, AND NEIGHBORHOOD AND COMMUNITY GROUPS TO FOSTER A HIGHLY ENGAGED CIVIC COMMUNITY

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

- Collection of data on participant demographics in order to assess whether the City is successfully engaging all members of the community;
- Number of new neighborhood associations created and the number of sustained neighborhood associations that have maintained active participation; and,
- Number of neighborhood associations that establish a branding identity for their neighborhood.

Objective SPE 3.1 Equal Access and Facilitation

Establish standards to guarantee equal access to information pertaining to the decision-making activities related to the Comprehensive Plan and on special land use and zoning topics.

Policy SPE 3.1.1

Establish community engagement opportunities that are broadly accessible and incorporate a range of locations, times, formats, including accommodations that allow people with disabilities, people with childcare responsibilities, and people with first languages other than English, to fully participate.

Policy SPE 3.1.2

Continue to improve access to information by utilizing technology and social media for greater outreach to Delray Beach residents.

Policy SPE 3.1.3

Continue to provide broad and timely notification of public meetings and events through a variety of methods including web-based resources and social media.

Policy SPE 3.1.4

Implement technological changes to facilitate City Boards and City Commission meetings at various venues within the community.

Policy SPE 3.1.5

Expand notification tools which help inform the public about active/recent safety issues, public education efforts and natural disaster threats.

Objective SPE 3.2 Neighborhood Outreach Programs

Continue to promote the expansion of the neighborhood association program to foster and enhance the cohesiveness and uniqueness of the neighborhoods.

Policy SPE 3.2.1

Expand the neighborhood services program to promote continual dialogue with community leaders, stakeholders and residents to solicit input on key concerns within their neighborhoods.

Policy SPE 3.2.2

Develop campaigns to assist in the creation of new neighborhood associations.

Policy SPE 3.2.3

Provide funding to facilitate on-going activities and programs that support existing neighborhood associations.

Policy SPE 3.2.4

Foster community and neighborhood spirit by developing a neighborhood "branding" campaign, which celebrates the unique attributes of individual neighborhoods.

Policy SPE 3.2.5

Utilize various mediums to obtain regular feedback to evaluate the community involvement and to identify whether any changes are needed to City practices to enhance future community involvement efforts.



CONSERVATION, SUSTAINABILITY AND RESILIENCY

LIVE



GOALS, OBJECTIVES, AND POLICIES

GOAL CSR 1 AIR RESOURCES PROTECTION

GOAL CSR 2 WATER RESOURCES CONSERVATION AND PROTECTION

WORK



GOAL CSR 3 MINERALS AND SOILS CONSERVATION AND PROTECTION

GOAL CSR 4 LAND PROTECTION FOR THE BENEFIT OF HABITAT AND SPECIES

PLAY



GOAL CSR 5 ENERGY EFFICIENCY AND DIVERSE ENERGY MIX

GOAL CSR 6 SUSTAINABLE WASTE MANAGEMENT, URBAN AGRICULTURE AND FOOD PROGRAMS

GROW



GOAL CSR 7 SUSTAINABLE PRACTICES THAT INCREASE THE TRIPLE BOTTOM LINE

GOAL CSR 8 INCREASED RESILIENCY

GOAL CSR 9 EMERGENCY PREPAREDNESS



WHAT IS THE CONSERVATION, SUSTAINABILITY AND RESILIENCY ELEMENT?

Preparing for the future is a key component of City services and policy making and the Conservation, Sustainability and Resiliency Element is the City of Delray Beach's approach for expanding its environmental stewardship more broadly beyond just marine and terrestrial natural resources. This approach also incorporates the concepts of energy use; air quality that factors in greenhouse gas emissions; the energy-water nexus; considering the sustainability of City operations and preparing for climate change and sea level rise.

Conservation, Sustainability and Resiliency is an enhanced Element that incorporates the new principles of Sustainability and Resiliency that are interrelated to other elements of the Comprehensive Plan. Beyond the statutorily required components of the Conservation Element to protect and maintain air, natural, water, and marine resources, Sustainability and Resiliency are cross-disciplinary concepts that focus on preparation for climate change and sea level rise. This approach allows the City to identify vulnerabilities to these impacts as well as mitigate exposure by becoming a more resilient community. The City will reduce its contribution to climate-altering greenhouse gas emissions and simultaneously prepare for its impacts with "no regrets" strategies based on best available data. Through this cross-disciplinary approach, the City will also realize operational cost savings, reduce heat island effects and improve the overall health of the community.

The inter-disciplinary planning effort includes goals, objectives and policies to acquire and manage best, continue and enhance partnerships, incorporate new considerations into operational and capital planning decisions and include both internal and external outreach and education mechanisms to increase staff and public support, sensitive to the social aspects of vulnerability and resiliency to promote equity. Finally, in this Element, linkages to the Coastal Management, Mobility, Capital Improvements and Strategic Partnerships Elements, among others, are critical to maintain seamless implementation.



CONSERVATION, SUSTAINABILITY AND RESILIENCY

CONSERVATION, SUSTAINABILITY AND RESILIENCY GOALS.

GOAL CSR 1	AIR QUALITY PROTECTION PROTECT AND IMPROVE THE QUALITY OF THE CITY'S AIR RESOURCES.
GOAL CSR 2	WATER RESOURCES CONSERVATION AND PROTECTION PROVIDE A SUSTAINABLE WATER SUPPLY BY PROTECTING, CONSERVING, AND REUSING THE CITY'S WATER SUPPLY, BY MAINTAINING AND IMPROVING THE CITY'S WATER QUALITY, AND BY EDUCATING THE PUBLIC ABOUT THEIR ROLE IN THESE EFFORTS.
GOAL CSR 3	MINERALS AND SOILS CONSERVATION AND PROTECTION CONSERVE, PROTECT, AND PROVIDE FOR THE APPROPRIATE USE OF AREAS SUITABLE FOR THE EXTRACTION OF DESIRABLE SOILS AND MINERALS.
GOAL CSR 4	LAND PROTECTION FOR THE BENEFIT OF HABITAT AND SPECIES CONSERVE, ENHANCE, RESTORE, MAINTAIN AND PROTECT WETLANDS, CONSERVATION AREAS AND SENSITIVE LANDS THAT PROVIDE HABITAT FOR THE PROTECTION OF FISHERIES WILDLIFE AND ENDANGERED OR THREATENED SPECIES OR CONTAIN NATIVE VEGETATION VITAL TO THE ENVIRONMENTAL QUALITY OF THE CITY.
GOAL CSR 5	ENERGY EFFICIENCY AND DIVERSIFY ENERGY MIX CONSERVE ENERGY RESOURCES BY PROMOTING ENERGY EFFICIENCY AND DIVERSIFY THE MIX OF ENERGY RESOURCES THROUGH INCREASING RENEWABLE ENERGY USE.
GOAL CSR 6	SUSTAINABLE WASTE MANAGEMENT, URBAN AGRICULTURE AND FOOD PROGRAMS ENCOURAGE THE CONSERVATION OF NATURAL RESOURCES THROUGH SUPPORT OF WASTE MANAGEMENT RECYCLING, URBAN AGRICULTURE AND FOOD DELIVERY PROGRAMS.
GOAL CSR 7	SUSTAINABLE PRACTICES THAT INCREASE THE TRIPLE BOTTOM LINE BECOME MORE SUSTAINABLE THROUGH THE ADOPTION AND IMPLEMENTATION OF POLICIES AND PROGRAMS THAT PROVIDE ENVIRONMENTAL, ECONOMIC, AND SOCIAL BENEFITS TO RESIDENTS, BUSINESSES, AND VISITORS.
GOAL CSR 8	INCREASED RESILIENCE SUPPORT INCREASED RESILIENCE TO SEA LEVEL RISE, FLOODING, STORMS AND OTHER DISRUPTIVE WEATHER EVENTS.
GOAL CSR 9	EMERGENCY PREPAREDNESS MINIMIZE DAMAGE TO PUBLIC FACILITIES AND DISRUPTION OF SERVICES TO THE PUBLIC DUE TO NATURAL OR OTHER DISASTERS BY PRE-DISASTER PLANNING.



GOAL CSR 1 AIR RESOURCES PROTECTION

PROTECT AND IMPROVE THE QUALITY OF THE CITY'S AIR RESOURCES.

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

- Completion of a greenhouse inventory with reduction targets;
- Reductions in vehicle miles traveled;
- Increase in the number of City vehicles using clean fuels and charging station infrastructure projects;
- Increase the mileage of safety features for cycling and paths; and,
- Increase in percentage of tree canopy coverage.

Objective CSR 1.1 Air Quality

Protect and improve the air quality throughout Delray Beach to meet the National Ambient Air Quality Standards (NAAQS) and other air quality requirements either individually or through partnerships.

Policy CSR 1.1.1

Participate in any regional or statewide effort to attain satisfactory air quality at a condition equal to or better than state and federal air quality standards.

Policy CSR 1.1.2

Provide data to, and coordinate with, the Department of Health, U.S. EPA and other relevant agencies monitoring air quality impacts.

Policy CSR 1.1.3

Ensure that all Prevention of Significant Deterioration (PSD) permits, Non-Attainment Area New Source Review (NAA-NSR) permits, Title V General permits, Title V Permits for Paper and Allied Products sources, Chemicals and Allied Products sources and Cane Sugar sources are issued by the FDEP or Department of Health before permits are issued by the City for construction and operation.

Policy CSR 1.1.4

Cooperate with Florida Department of Environmental Protection (FDEP), Department of Health and other appropriate agencies in assessing air quality impacts associated with the waste transfer station located in Delray Beach.

Policy CSR 1.1.5

Cooperate with the National Weather Service and Palm Beach County Environmental Resources Management to develop and implement a rapid response mechanism to notify the public of air pollution episodes that endanger public health.

Policy CSR 1.1.6

Continue to implement policies related to air quality and tobacco such as Smoke Free/Tobacco Free Work Place and maintain designated "No Smoking Areas" on the beach, pursuant to Florida Law.

Policy CSR 1.1.7

Continue to enforce prohibitions on burning trash and debris, and partner with the Palm Beach County Health Department where necessary to enforce requirements for open burning operations related to residential land clearing and land clearing for commercial purposes.

Policy CSR 1.1.8

Continue to ensure demolition permits mitigate air quality impacts.

Policy CSR 1.1.9

Continue to require written approval from the Health Department before permitting any demolition involving asbestos renovation projects or demolition of structures subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).



GOAL CSR 1 AIR RESOURCES PROTECTION

Objective CSR 1.2 Manage and Reduce Greenhouse Gas Emissions

Reduce greenhouse gas emissions both in City operations and communitywide to achieve improved air quality and lower the city's contribution of emissions resulting in climate change.

Policy CSR 1.2.1

Conduct an inventory of City operations and communitywide greenhouse gas emissions within two (2) years, establish appropriate reduction targets in the inventory and continue with updates every (five) 5 years thereafter. [Complete by 2022]

Policy CSR 1.2.2

Within two years of completion of the inventory, develop greenhouse gas reduction strategies that strive to reduce the largest sources of emissions for City operations and communitywide

Policy CSR 1.2.3

Include policy considerations in capital planning procedures for projects and procurement requirements that reduce greenhouse gas emissions to meet reduction targets, increase energy efficiency and renewable energy, decrease vehicle miles traveled and increase use of alternative modes of transportation to reduce vehicle use.

Objective CSR 1.3 Reduce Transportation-Related Emissions

Develop a diversified transportation system that reduces reliance on fossil fuel consumption through infrastructure and program improvements that decrease vehicle miles traveled and enhance walking, cycling and transit opportunities.

[Policy MBL 1.4.2](#)

[Objective PFE 6.1](#)

Policy CSR 1.3.1

Implement transportation, mobility, and capital improvements plans that promote compact mixed-use development patterns accessible through multi-modal transportation options.

Policy CSR 1.3.2

Continue to focus higher density and intensity land uses around existing and planned commuter rail service.

[Policy NDC 1.3.2](#)

Policy CSR 1.3.3

Consider the recommendations of Delray Beach Tri-Rail Coastal Link Station Master Plan.

[Policy MBL 2.3.3](#)

[Policy NDC 2.4.5](#)

[Policy PFE 6.1.6](#)

Policy CSR 1.3.4

Work with the Palm Beach Transportation Planning Agency and other local strategic partners to develop a baseline estimate of vehicle miles traveled and non-automobile mode share countywide, and downscale to the city level, in order to adopt short, mid-range and long-term goals for vehicle miles reduction.

Policy CSR 1.3.5

Identify, analyze, and work to eliminate barriers to multimodal connectivity through studies, plans, and capital investments.

Policy CSR 1.3.6

Increase non-automobile transportation mode share 5% by 2025 with more walking, biking and transit use throughout the city.

[Policy MBL 1.2.4](#)

Policy CSR 1.3.7

Improve neighborhood connectivity by connecting sidewalks and multi-use paths that lead to City parks and require new development and redevelopment to accommodate bicycle and pedestrian facilities and connections to existing development through the use of striped or buffered/marked bicycle lanes, cycle-tracks, parallel off-street paths and/or other dedicated facilities.

[Policy MBL 2.4.3, 3.1.5](#)

[Policy OPR 2.2.5](#)

Policy CSR 1.3.8

Achieve recognition as a Bicycle-Friendly Community or Walk-Friendly Community or achieve an average community Walk Score or Bike Score of 70 or more. [Complete by 2025-2040]



GOAL CSR 1 AIR RESOURCES PROTECTION

Policy MBL 1.2.5

Policy CSR 1.3.9

Support the coordination of transportation demand management programs that implement employer-option transportation control measures to reduce peak-hour vehicle use, such as flexible work hours, employer based car-pooling, and compressed work weeks.

Policy CSR 1.3.10

Support maximizing options to relieve congestion through trolleys, shuttles, transportation modalities that augment Palm Tran and Tri-Rail Services and operate with the cleanest fuels possible.

Policy MBL 2.4.6

Objective CSR 1.4 Reduce Vehicle-Related Emissions

Promote the use of fuel efficient, hybrid, and alternatively fueled vehicles and implement operational enhancements that support reductions in transportation-related vehicle emissions.

Policy CSR 1.4.1

Complete a Right-Size vehicle fleet analysis within three (3) years with increased fuel economy (and acquisition plan) to determine the most optimal mix of pooled, sized and assigned vehicle with most efficient fuel sources. Seven (7) or more years of age should be a considered vehicle replacement standard. Ensure technician training and the installation of electric vehicle support equipment (EVSE) are considered. [Complete by 2022]

Policy CSR 1.4.2

Consider the costs and benefits of City fleet vehicles powered by alternative fuels, such as hybrid or electric vehicles, and higher mileage vehicles as part of the City's capital purchasing process for new motor vehicles used in transportation and life and safety maintenance operations.

Policy CSR 1.4.3

Research and adopt a City vehicle idling policy with corresponding educational materials to

reduce fuel costs and reduce municipal greenhouse gas emissions, [Complete by 2022]

Policy CSR 1.4.4

Continue to require in the Land Development Regulations a percentage of alternative fuel off-street parking spaces in the Central Business District and assess the need for alternatively fueled vehicle spaces throughout Delray Beach.

Policy CSR 1.4.5

Work with major private sector companies that have large fleets to co-locate or strategically site clean fuel support infrastructure, such as fueling stations.

Policy CSR 1.4.6

Research and develop outreach materials to increase awareness of the relationship between prolonged vehicle idling, particularly for heavy duty trucks, and related greenhouse gas emissions.

Policy CSR 1.4.7

Collaborate with other local governments to evaluate the feasibility of increasing alternative fuel sources such as biofuel, methane, electric, and or solar in government and/or private sector fleet vehicles.

Policy CSR 1.4.8

Balance traffic flow, speed, and street design character, such as continuing to implement the Complete Streets ordinance, where appropriate.

Policy MBL 3.2.3

Policy PFE 6.1.2



GOAL CSR 2 WATER RESOURCES CONSERVATION AND PROTECTION

PROVIDE A SUSTAINABLE WATER SUPPLY BY PROTECTING, CONSERVING, AND REUSING THE CITY'S WATER SUPPLY, BY MAINTAINING AND IMPROVING THE CITY'S WATER QUALITY, AND BY EDUCATING THE PUBLIC ABOUT THEIR ROLE IN THESE EFFORTS.

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

- Increase in the availability and use of reclaimed wastewater;
- Increase in the number of new developments using reclaimed wastewater;
- Number of pollutants and pollutant levels detected in bodies of water;
- Significant sustained Changechange in number of new cases of saltwater intrusions, salinity levels in public wellfields not related to seasonal variations;
- Change in the number of water bodies meeting state water quality standards; and,
- Number of substandard stormwater management systems retrofitted.

Objective CSR 2.1 Water Resource Contamination

Focus on detecting and eliminating water resource contamination and instituting preventative measures to protect water supply sources.

Objective PFE 3.1

Policy CSR 2.1.1

Continue monitoring groundwater conditions through installation of monitoring wells consistent with the County's Wellfield Protection Ordinance and the City's Industrial Pretreatment Program, as well as applicable State and Federal requirements.

Policy PFE 2.1.1

Policy CSR 2.1.2

Encourage the preservation of existing groundwater recharge areas through sensitive site planning, including maximizing open space, pretreatment of stormwater runoff, etc. In the case of environmentally sensitive lands, such preservation may include sensitive development under "planned development" concepts, exaction (public site dedication provisions of the Land Development Regulations), and acquisition (including the County Environmentally Sensitive Lands Acquisition Program).

Policy OPR 1.2.3

Policy CSR 2.1.3

Continue water resource monitoring and protection programs and proactively address

potential impacts on the coastal aquifer from increased chlorides due to a changing climate and sea level rise.

Policy HCE 3.4.2

Policy PFE 2.1.1

Policy CSR 2.1.4

Continue to monitor developments in the field of water treatment technology, including desalination, and utilize the most cost-effective technology available to meet long-term demands and water quality goals.

Policy CSR 2.1.5

Protect existing wellfields and water supplies, and plan for infrastructure replacement and wellfield relocation as needed in consideration of potential increased coastal flooding, sea level rise, saltwater intrusion, and other potential future climate change impacts using the most recent sea level rise projections from the Southeast Florida Regional Climate Compact. This could include potential saltwater intrusion mitigation using reuse, stormwater, C-51 or other sources of water.

Policy CME 3.1.2

Policy PFE 2.1.1, 2.3.1

Objective CSR 2.2 Wellfield Protection

Implement and expand upon the concepts, principles, and regulations contained in the Palm Beach County Wellfield Protection Program.



GOAL CSR 3 SOIL RESOURCES CONSERVATION AND PROTECTION

Policy CSR 2.2.1

Continue to assure compliance with the County Wellfield Protection Ordinance by including compliance as a performance standard for which a specific finding must be made upon approval of any site plan or conditional use action.

Policy CSR 2.2.2

Inspect and monitor business premises to ascertain that facilities and procedures exist and are utilized to properly manage hazardous materials and wastes commonly occurring as a result of existing or proposed activities in compliance with the Wellfield Protection Program, Industrial Pretreatment Program, and Fire Department inspections.

Policy CSR 2.2.3

Prohibit the establishment of hazardous waste storage, transfer, or generating facilities.

Policy CSR 2.2.4

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 PFE 2.1.8

Objective CSR 2.3 Water Quality

Implement specific programs to monitor, enforce, reduce, eliminate, and provide environmentally responsible disposal methods of materials that may be hazardous or contaminate the water supply, groundwater, surface water, or other water resources.

Policy CSR 2.3.1

Participate in data collection efforts, including but not limited to sampling for microbiological analysis, and enforcement of new water quality criteria for use in the Healthy Beaches Program required as of January 2016, adopted by the Florida Department of Health (DOH). These criteria reflect the most current, 2012 Recreational Water Quality Criteria (RWQ criteria), recommendations and water quality grant requirements put forth by the United States Environmental Protection Agency (USEPA)

and sample sites exceeding established standards result in the issuance of an advisory.

Objective PFE 2.3

Policy CSR 2.3.2

Maintain the current program of monitoring and inspecting industrial and commercial sites.

Policy CSR 2.3.3

Educate residents, businesses, and visitors on practices that protect groundwater from pollution, such as proper disposal of medicines, chemicals, batteries, and hazardous materials.

Policy HCE 3.4.3

Policy CSR 2.3.4

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

Policy PFE 5.1.1

Objective CSR 2.4 Water Supply and Shortage

Continue to mitigate against future water shortages using a series of innovative activities, which educate the public, reduce consumption, minimize waste, and generally protect water resources, shall continue to be undertaken. These activities shall be directed toward the continued reduction of water use, and shall be evaluated annually.

Policy CSR 2.4.1

Cooperate and support development and implementation of local and regional water resource strategies, water resource development, and conservation and reuse projects that promote a sustainable water supply. Regional and local water resource development strategies shall include, but not be limited to, increased increasing water conservation, maximizing groundwater aquifer recharge areas, implementing additional reuse projects such as rapid infiltration basins (RIBS), expanding reclaimed water use, and utilizing the City's one existing Upper Floridan Aquifer well, aquifer development and the C-51 Reservoir Project.

Policy PFE 2.1.3, 2.2.1, 3.2.2, 3.2.3



GOAL CSR 3 SOIL RESOURCES CONSERVATION AND PROTECTION

Policy CSR 2.4.2

Implement a water conservation program, as required by the water use permit, based on the following principles: enforcement of environmentally-friendly landscaping and xeriscaping, low volume plumbing fixtures, rain sensors, implementation of a conservation rate structure, leak detection system, installation of automatic water flushers and water conservation education programming and development of alternative water supply projects.

Policy PFE 2.1.2, 2.2.1, 2.5.5

Policy CSR 2.4.3

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

Policy CSR 2.4.4

Raise public awareness of water conservation practices on a regular basis through multiple, creative outlets, including posting literature in City Hall, installing signs along major roads, providing information in utility bills, neighborhood newsletters, press releases, and social media platforms, as well as education programs in local schools.

Policy CSR 2.4.5

Continue to implement requirements for water conserving fixtures in new construction and incentivize higher efficiency standards in new construction and renovations.

Policy CSR 2.4.6

Require the use of native plants and environmentally-friendly landscaping and design in all publicly owned areas, including demonstration projects that educate the public on the resulting benefits of water and native wildlife conservation.

Policy CME 2.4.2

Policy CSR 2.4.7

Policy OPR 3.5.3

Policy CSR 2.4.7

Revise Land Development Regulations to eliminate required irrigation systems when a landscape plan is approved that includes the use of native plants and other vegetation that will survive without

permanent irrigation, while meeting landscape code requirements.

Policy NDC 3.5.11

Policy CSR 2.4.8

Continue to include requirements on the use of low-water tolerant plant species, as well as the installation of rain or moisture monitor devices for irrigation systems in landscape standards.

Policy CSR 2.4.9

Continue to require the preservation of existing native plant communities and the use of native plants and trees in landscape plans for new development and redevelopment projects.

Policy CME 2.4.1, 2.4.2

Policy CSR 2.4.10

Continue requiring a water source, other than City water, for irrigation purposes in geographically defined areas of the city that have access to the reclaimed water system.

Policy PFE 3.2.2, 3.2.3

Policy CSR 2.4.11

Continue to utilize and expand use of reclaimed water from the wastewater treatment plant, with prioritization for effluent reuse on golf courses, large homeowner associations with master meter systems, City parks, and within the Coastal Planning Area.

PFE Policy 3.2.2

Policy CSR 2.4.12

Provide incentives for new construction and redevelopment to incorporate the use of grey water systems for both irrigation and toilets/sanitary sewer systems.

Policy CSR 2.4.13

Require discontinued wells be plugged and sealed, as required by the Florida Department of Environmental Protection.

Policy CSR 2.4.14

Support public education programs and emergency powers of the South Florida Water Management District with respect to the conservation of water sources and, when such



GOAL CSR 3 SOIL RESOURCES CONSERVATION AND PROTECTION

programs and activities are imposed by the District, impose those similar restrictions which are available under the City's emergency water conservation powers.

Policy PFE 2.2.1

Policy CSR 2.4.15

Direct storm water into landscaped areas for use in irrigation throughout the Delray Beach municipal city limits.

Policy CSR 2.4.16

Work with the South Florida Water Management District and Lake Worth Drainage District to include innovative, low impact development principles in local regulations, such pervious paving/surfaces to reduce water runoff and promote percolation/stormwater recharge.

Policy CME 1.6.1, 2.3.2, 3.6.4

Policy PFE 4.1.8

Policy CSR 2.4.17

Work with the South Florida Water Management District and Lake Worth Drainage District to maintain and enforce the City's vegetative requirements and to investigate opportunities for shared or joint use of lands, easements or rights-of-way for passive, non-structural recreational opportunities.

Policy OPR 1.3.1, 4.1.2

Policy CSR 2.4.18

Educate the public on the benefits of conserving water, native plants and animals, and ecosystems at events, such as tree giveaways.

Policy CSR 2.4.19

Create a program to educate the public on the benefits of on-site water storage such as rain barrels and cisterns.

Objective CSR 2.5 Potable Water

Address the city's existing and projected potable water needs and sources in the context of the regional water supply.

Policy CSR 2.5.1

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 May 2021, for a planning period of not less than 10 years.

Policy PFE 1.2.2, 2.1.5, 2.1.6, 2.5.4

Policy CSR 2.5.2

Participate in the development of the projects and recommendations contained within the most recent version of the Lower East Coast Regional Water Supply Plan.

Policy PFE 2.1.4

Objective CSR 2.6 Protecting Water Bodies

Support individually, and participate in, regional efforts to protect and enhance the quality of water, including Lake Ida, the drainage canal system, and the Intracoastal Waterway.

Policy CSR 2.6.1

Work with other agencies to improve Lake Ida water quality, with the goal of achieving a water quality level that will allow swimming.

Policy CSR 2.6.2

Continue to monitor the quality of waters flowing into coastal water bodies and implement strategies to maintain protection or improvement in them considering potential contamination resulting from inundation, structural compromise, from sea level rise, storm events, or other climate related impacts.

Policy CSR 2.6.3

Review City regulations on fertilizer application and update, if needed, to incorporate concepts including, but not limited to, blackout periods, effectiveness of enforcement and setback distances from water bodies. Expand education and outreach efforts for homes and business owners on proper fertilizer application techniques and the adverse fertilizer impacts on City water quality.



GOAL CSR 3 SOIL RESOURCES CONSERVATION AND PROTECTION

CONSERVE, PROTECT, AND PROVIDE FOR THE APPROPRIATE USE OF AREAS SUITABLE FOR THE EXTRACTION OF DESIRABLE SOILS AND MINERALS.

Performance Measures: Success in addressing Objectives and Policies of **GOAL CSR 3** shall be measured utilizing the following performance indicators:

- Decrease in permit violations related to lake excavation activities;
- Increase in more natural shoreline protection strategies such as installing mangroves and other native vegetation, and rip rap planters; and,
- Increase in environmentally-friendly landscaping along roadways to prevent soil erosion.

Objective CSR 3.1 Soil Resources

Conserve and protect soils resources by maintaining land development regulations governing soil erosion.

Policy PFE 3.1.1

Policy CSR 3.1.1

Maintain Land Development Regulations that minimize soil erosion on new construction sites by requiring measures consistent with the Best Management Practices of the United States Natural Resources Conservation Service (Construction, Site, Soil, Erosion, and Sediment Control) including, but not limited to, replanting, restoring and protecting vegetation.

Policy CSR 3.1.2

Include appropriate environmentally-friendly landscaping and design, including, but not limited to, replanting, restoring and protecting vegetation, to minimize soil erosion in the construction or expansion of roadways with steep embankments.

Policy CSR 3.1.3

Maintain shoreline protection and erosion control by continuing a program of beach and dune protection, coastal and shoreline buffering, and use of seawalls only when natural protection strategies are not feasible; and, evaluate opportunities to protect coastal investments and infrastructure, as appropriate, from the impacts of climate change.

Policy CME 1.6.3



GOAL CSR 4 LANDS PROTECTION FOR THE BENEFIT OF HABITAT AND SPECIES

CONSERVE, ENHANCE, REGENERATE, MAINTAIN AND PROTECT WETLANDS, NATURAL RESERVATIONS AND SENSITIVE LANDS THAT PROVIDE HABITAT FOR THE PROTECTION OF FISHERIES WILDLIFE AND ENDANGERED OR THREATENED SPECIES OR CONTAIN NATIVE VEGETATION VITAL TO THE ENVIRONMENTAL QUALITY OF THE CITY.

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

- Maintain or increase the number and size of existing wetlands;
- Restore and maintain conservation specially designated and protected properties;
- Sea turtle nest hatchling success rates; and,
- Beach nourishment:
 - Evaluation and physical monitoring of the beach project annually;
 - Completing planned periodic beach renourishment events; and,
 - Coordinating swiftly with project partners (USACE, Palm Beach County and FDEP) to assess and repair storm damages to the beach.

Objective CSR 4.1 Fisheries, Wildlife and Habitat

Implement policies that protect fisheries, wildlife, wildlife habitat and marine habitat and restrict activities known to adversely affect the survival of endangered and threatened wildlife.

Policy CSR 4.1.1

Continue to implement the Sea Turtle Conservation Program, which includes monitoring of nesting and hatching activity, and enforcement of lighting restrictions.

Policy CSR 4.1.2

Continue to enforce sea turtle lighting requirements.

Policy CSR 4.1.3

Maintain existing programs to protect offshore reefs and marine habitat through monitoring and management of beach renourishment construction activities.

Policy CSR 4.1.4

Protect, conserve, rehabilitate and restore wildlife habitat, open space and recreation areas, conservation areas and prevent any further net loss of these lands in Delray Beach.

Policy OPR 1.3.11, 3.1.3

Policy CSR 4.1.5

Cooperate with the US Department of Agriculture, the Florida Department of Environmental Protection (FDEP), Fish and Wildlife Conservation Commission and Florida Exotic Pest Plant council to eliminate invasive exotic plant and animal species and pursue the removal, eradication, treatment and maintenance of exotic, nuisance and invasive species within the city.

Policy OPR 3.1.6

Policy CSR 4.1.6

Continue to provide regulations regarding the removal of existing invasive exotic species such as Australian Pine, Brazilian Pepper, Shefflera Queensland umbrella, Ear-Leaf Acacia, Scaevola and Melaleuca on private property as development and/or redevelopment occurs and prohibit the planting or cultivation of these species anywhere within the city.

Policy CSR 4.1.7

Promote on-site preservation as the most desirable alternative for the protection of upland habitats, and plant and wildlife species, with off-site preservation for endangered or threatened species of special concern utilized when recommended by the Florida Fish and Wildlife Conservation Commission and the US Fish and Wildlife Service.



GOAL CSR 4 LANDS PROTECTION FOR THE BENEFIT OF HABITAT AND SPECIES

Policy CSR 4.1.8

Comply with all relevant State and Federal regulations that pertain to listed species and consult, as required, with regulatory agencies prior to the issuance of a land use approval that would result in an adverse impact to any listed species.

Policy CSR 4.1.9

Support marine law enforcement programming and restrict access and activities in designated Manatee Essential Habitat Areas and support lower speed regulations such as Idle Speed Zones, Low Speed Zones and Slow Speed Buffer Zones to promote boater safety, improve quality of life of adjacent residents, and protect manatees.

Policy CME 1.6.5

Policy CSR 4.1.10

Marine construction activities shall comply with all state and Federal regulatory requirements and be located so as to minimize impacts to manatees and resources they depend upon, as well as other rare, threatened or endangered species. Such activities shall also require minimal or no dredging, as well as have good tidal flushing. In instances where dredging is required, minimize both initial and maintenance dredging.

Policy CME 2.6.9

Objective CSR 4.2 Habitat Protection

Identify, designate, protect, maintain and regenerate habitat, natural reservations and environmentally sensitive areas.

Policy CSR 4.2.1

Conserve and protect conservation areas and environmentally sensitive lands as depicted on Map AD-19 (Conservation Areas).

Policy CSR 4.2.2

Consider the climate adaption needs of native plants, the diversity of plant and wildlife species, and consider strategies for assisting in their natural migration.

Policy CME 2.4.2

Policy CSR 4.2.3

Require the submission of a biological survey and a habitat analysis with land use requests for plan amendments, rezonings, and site plan approval,

with an exception where it is apparent that no such resources exist, as determined by staff.

Policy CSR 4.2.4

Continue to protect valuable open space and conservation areas through dedication of park lands, impact fees or dedication in lieu of and the provision of greenspace and buffering at the time of site plan review.

Policy OPR 3.2.3

Policy CSR 4.2.5

Continue to maintain, implement and enhance regulations that protect and preserve native trees, including those in areas of native vegetative communities and promote the use of native vegetation. The City shall maintain and enforce land clearing requirements and enhance tree replacement policies that focus on like kind species in the site planning process.

Policy CME 2.4.2

Policy OPR 3.5.3

Policy CSR 4.2.6

Identify the following publicly-owned environmentally sensitive areas as "Conservation" or "Open Space" on the Land Use Map:

- The FIND parcels 645, and 650 along the Intracoastal;
- The Leon Weekes Environmental Preserve;
- Delray Oaks;
- 1455 Lake Ida Road (City-owned portion);
- The Donnelley Tract on Palm Trail; and
- The Public Beach Dunes

These designations shall be maintained in order to further this objective as well as the goals, objectives and policies of the Open Space and Recreation Element.

Policy CME 1.6.6

Policy OPR 3.1.1

Policy NDC 1.5.1

Policy CSR 4.2.7

With development of the Heritage Club project, a portion of the Hurricane Pines site has been preserved as part of the open space for the project. This area shall continue to be maintained



GOAL CSR 4 LANDS PROTECTION FOR THE BENEFIT OF HABITAT AND SPECIES

by the homeowners association as a preservation area.

Policy CSR 4.2.8

Continue to use the City owned park site in the Hammock Reserve area as primarily passive uses to maximize retention of the existing native plant communities and continue to preserve the environmentally sensitive site.

Policy OPR 3.5.3

Policy CSR 4.2.9

Protect natural reservations that exist as historic sites through the continued implementation and enforcement of the City's Historic Preservation Ordinance.

Policy CSR 4.2.10

Integrate required project open spaces with trail systems where feasible and functionally possible, particularly where contiguous parcels are identified for a trail system.

Policy CSR 4.2.11

Continue to require the conservation of trees and existing native vegetation in redevelopment and new development projects.

Policy CME 2.4.1, 2.4.2

Policy CSR 4.2.12

Promote the ongoing protection and maintenance of unique habitats and conservation areas to preserve environmental, recreation, and other public benefits, including but not limited to, the conservation of publicly-owned conservation areas, wetland mitigation areas and water recharge areas.

Policy OPR 1.3.12, 1.4.1, 2.3.3

Policy CSR 4.2.13

Prioritize and pursue funding opportunities for the restoration and/or enhancement of degraded natural areas, such as, restoration of shorelines or dunes, restoration of natural hydrology, or removal of non-native vegetation.

Policy CSR 4.2.14

Include impacts to habitat and wildlife in future climate planning efforts including vulnerability assessments.

Policy CME 3.1.4

Policy CSR 4.2.15

Implement and enforce regulations that promote proper tree and vegetative maintenance and pruning, and prevent hat-racking or topping practices which weaken trees.

Policy CSR 4.2.16

Develop and implement programs for protecting and expanding existing open space, conservation areas and wetland areas such as Transfer of Development Rights, deed of conservation easements, restrictive covenants, and tax incentives, while incorporating species and habitat vulnerability to climate change into the land use planning or land acquisition. [Complete by 2025-2040]

Policy CME 2.2.6

Policy OPR 1.2.1, 1.2.4, 3.1.5

Policy NDC 2.1.4, 3.5.10

Policy CSR 4.2.17

Consider designating the Bexley Park Preserve area as Conservation on the Land Use Map.

Policy OPR 3.1.7

Objective CSR 4.3 Local Government Coordination

Maintain cooperation with adjacent local governments to conserve, appropriately use, or protect unique vegetative communities located within more than one local jurisdiction.

Policy CSR 4.3.1

Coordinate with applicable agencies to identify, manage, and protect unique native vegetative communities, and marine and estuarine resources that are located within the city but cross jurisdictional boundaries or are of regional significance.

Policy CSR 4.3.2

Participate in data collection and updating management plans for unique vegetative communities that are entirely or partially located within the city.

Policy CSR 4.3.3

Participate in efforts to secure funding to designate and protect native ecosystems, or the designation process for, unique vegetative communities within Delray Beach.



GOAL CSR 4 LANDS PROTECTION FOR THE BENEFIT OF HABITAT AND SPECIES

Objective CSR 4.4 Protecting Wetlands

Protect and conserve the functions and values of wetlands and direct future land uses that are incompatible with the protection and conservation of wetlands and wetland functions away from wetlands.

Policy CSR 4.4.1

Implement provisions that avoid and minimize impacts to wetland function, and where impacts are unavoidable, require replacement of lost function through mitigation.

Policy CSR 4.4.2

Implement integrated water management strategies in order to lessen negative impacts to open spaces, wetland mitigation areas, and natural systems, improve the ability of these systems to adapt to climate change, and optimize the ability of these systems to create additional benefits to the city's residents and visitors.

Policy CSR 4.4.3

Maximize connectivity between wetland areas, onsite preserve areas in private developments, areas subject to habitat management plans and/or mitigation projects to enhance their relationships with other wetlands.

Policy OPR 1.4.4, 1.4.5, 2.2.5, 4.2.1, 4.3.5

Policy CSR 4.4.4

Integrate wetlands into stormwater drainage/water management practices in permitted development, protected lands and mitigation areas to provide necessary recharge hydrology and conditions to sustain the wetland areas.

Policy CSR 4.4.5

Distribute land uses in a manner that avoids or minimizes impacts on wetlands.

Objective CSR 4.5 Habitat Outreach

Educational programs shall be implemented to increase public awareness on species and habitat protections.

Policy CSR 4.5.1

Increase public awareness of manatees and manatee protection efforts including signage at new and existing public and private marinas, boat ramps, and non-residential boat docks, as well as appropriate public parks, and educational displays or informational kiosks that raise manatee awareness.

Policy CSR 4.5.2

Increase public awareness of threatened and endangered species through signage at appropriate habitat locations and coordinate with other partners to increase public awareness of native flora and fauna and their unique role in the ecosystem.

Policy CSR 4.5.3

Cooperate with organizations such as the Native Plant Society, Institute for Regional Conservation and other local strategic partners to host informational events for residents and professionals on habitat and species conservation and to increase support for promotion of biodiversity, protecting native plants and ecological restoration.



GOAL CSR 5 ENERGY EFFICIENCY AND DIVERSE ENERGY MIX

CONSERVE ENERGY RESOURCES BY PROMOTING ENERGY EFFICIENCY AND DIVERSIFYING THE MIX OF ENERGY RESOURCES THROUGH INCREASING RENEWABLE ENERGY USE.

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

- Reduction in residential, commercial and municipal electricity use;
- Increase in the number of green buildings in the city;
- Increases in energy efficiency municipal retrofit projects; and,
- Increases in City and communitywide renewable energy projects.

Objective CSR 5.1 Energy Efficiency

Promote and provide incentives for energy efficient buildings, homes and infrastructure to reduce electricity use.

Policy CSR 5.1.1

Develop new green/sustainability regulations and incentives to increase energy efficiency in new construction and repurposed buildings through collaboration with the building and development community to determine best incentives and most effective approaches.

Policy CSR 5.1.2

Create a Sustainable Development Standards evaluation system and Handbook to assist with interpretation of criteria for clarification in the development community. Include aspects of energy efficient design for homes and businesses and environmentally-friendly landscaping. [Complete by 2025]

Policy CSR 5.1.3

Promote the use of cooler roof systems with reflective coating materials.

Policy CSR 5.1.4

Create outreach campaign on how residents and business owners can implement simple solutions to become more energy efficient and save on power bills.

Policy CSR 5.1.5

Undertake energy and water audits and retro-commissioning of operations for City facilities and sources of energy use, such as streetlights, within three (3) years to develop an energy and water efficiency capital retrofit program with a return on

investment analysis showing costs and benefits of a citywide retrofit program. Implement a recurring program of retro-commissioning every eight (8) years on City facilities. [Complete by 2022]

Policy CSR 5.1.6

Develop sustainable construction standards for City owned buildings and major renovations consistent with Section 255.2575, Florida Statutes, which requires energy efficient and sustainable buildings. Require public infrastructure projects incorporate elements of efficiency for energy and water consumption in new or upgraded infrastructure investments and develop energy efficiency criteria to include in City procurements and capital projects. In the capital improvements planning process, consider the most energy efficient technologies available.

Policy CIE 3.1.6

Policy PFE 7.2.1

Policy CSR 5.1.7

Implement a system to maintain a centralized database (Utility Management System) that collects and tracks key sustainability indicators to facilitate sustainability and energy reporting, management of programs, and assessment of performance.

Policy CSR 5.1.8

Cooperate with organizations such as the Palm Beach Branch of the US Green Building Council, Florida Green Building Coalition, Green Roofs for Healthy Cities and others to host informational events for residents and professionals on green roofs, green building techniques, and energy conservation.

Policy EDU 3.5.6



GOAL CSR 5 ENERGY EFFICIENCY AND DIVERSE ENERGY MIX

Policy CSR 5.1.9

Continue to enforce environmental lighting restrictions and promote the goals of the Dark Sky Initiative.

Objective CSR 5.2 Renewable Energy

Increase the use of renewable energy.

Policy CSR 5.2.1

Promote the use of renewal energy, such as, solar, wind, bio-diesel, energy storage technologies, micro-grids, community battery storage of electric power, and solar car charging stations.

Policy PFE 7.2.1

Policy CSR 5.2.2

Allow for easy, cost-effective future installation of solar systems in the design and construction of new City buildings, such as optimal roof orientation, roof framing to support solar panels, electrical conduit to accept solar electric system wiring, and plumbing to support a solar hot water system.

Policy CSR 5.2.3

Develop and promote programs to increase the use of alternative and renewable energy.

Policy CSR 5.2.4

Encourage and reduce barriers to solar cooperatives and other community renewable energy aggregation programs.

Policy CSR 5.2.5

Work towards achieving the SolSmart Silver designation by removing regulatory barriers to the installation of solar energy in nearly all zoning districts. [Complete by 2022].

Policy CSR 5.2.6

Complete a renewable energy feasibility study on all City facilities 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 and establish a renewable energy target for municipal operations. [Complete by 2025].

Policy PFE 7.2.1, 7.3.4

Policy CSR 5.2.7

In the Land Development Regulations, provide incentives for installing solar arrays on rooftops and other impervious spaces and remove any barriers to their installation. [Complete by 2025].

Policy NDC 3.5.12

Policy CSR 5.2.8

Collaborate with local, state, and federal Strategic Partners to advance renewable energy goals through new programs, adoption of best practice programs, pursuit of grants for project and policy research, and policy implementation.

Policy CSR 5.2.9

Create website and outreach materials about solar incentives, programs and net-metering opportunities into a compiled initiative. [Complete by 2022]



GOAL CSR 6 SUSTAINABLE WASTE MANAGEMENT, URBAN AGRICULTURE AND FOOD PROGRAMS

ENCOURAGE THE CONSERVATION OF NATURAL RESOURCES THROUGH SUPPORT OF WASTE MANAGEMENT RECYCLING, URBAN AGRICULTURE AND FOOD DELIVERY PROGRAMS.

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

- 🌱 Increase in tonnage of waste recycled;
- 🌱 Number of materials eligible for recycling;
- 🌱 Increase in construction and demolition recycling;
- 🌱 Increase in hazardous waste drop off utilization;
- 🌱 Increase in composting;
- 🌱 Maintain and increase community gardening opportunities;
- 🌱 Increase in backyard farming and urban agriculture; and,
- 🌱 Increase number of businesses and community organizations using locally produced food.

Objective CSR 6.1 Materials Management

Develop a cooperative materials management system with partnering organizations to maximize the recovery and reuse of waste and other materials to capture their economic value, conserve embedded energy, and minimize net life-cycle emissions of greenhouse gases and other pollutants.

Objective PFE 5.1

Policy CSR 6.1.1

Continue to participate in the Palm Beach County Solid Waste Authority recycling program, 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 PFE 6.1.1

Policy CSR 6.1.2

Work with the Solid Waste Authority to increase rates of residential and commercial recycling and proper storage, recycling, collection and disposal of hazardous wastes, and to increase the types of materials accepted for recycling.

Policy CSR 6.1.3

Policy PFE 5.1.2, 5.1.4, 5.1.6

Policy CSR 6.1.3

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

Policy PFE 5.1.4, 5.1.7

Policy CSR 6.1.4

Implement communitywide incentives and policies for residents and businesses to help achieve community waste reductions goals. Conduct an annual education program to encourage increased participation in the recycling program by low performing neighborhoods.

Policy PFE 5.1.4, 5.1.8

Policy CSR 6.1.5

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 PFE 5.1.9

Policy CSR 6.1.6

Promote the use of more sustainable products, such as biodegradable straws, bags, packaging and containers as a means of reducing waste.

Policy PFE 5.1.10



GOAL CSR 6 SUSTAINABLE WASTE MANAGEMENT, URBAN AGRICULTURE AND FOOD PROGRAMS

Policy CSR 6.1.7

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

Policy PFE 5.1.11

Policy CSR 6.1.8

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 PFE 5.1.4, 5.1.12

Policy CSR 6.1.9

Promote the recycling of hazardous wastes through education and outreach conveying information about available locations and programs for hazardous waste recycling; and, consider collection events to promote convenient drop-off opportunities.

Policy PFE 5.1.2

Policy CSR 6.1.10

Cooperate with the Palm Beach County Health Department and other concerned agencies in developing emergency response plans for accidents involving hazardous wastes.

Policy CSR 6.1.11

Continue to support and enforce the implementation of the Oil and Grease Management Program and the Surcharge Program. Coordinate with the City's waste hauler to determine if opportunities exist for the City to assist in waste oil reduction through consolidated pick up, hauling services and recycling.

Policy CSR 6.1.12

Provide recycle receptacles on City property, specifically locations where the City currently supports trash receptacles, such as Atlantic Avenue, the Municipal Beach, Pineapple Grove Way, Swinton Avenue, City parks, other appropriate areas.

Policy PFE 5.1.13

Policy CSR 6.1.13

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

Policy PFE 5.1.14

Policy CSR 6.1.14

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 to support at least one Keep America Beautiful Coastal Cleanup event per year.
- ❖ Coordinate with its 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 PFE 5.1.4, 5.1.15

Policy CSR 6.1.15

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

Policy PFE 5.1.16

Policy CSR 6.1.16

Work with Green Market vendors to reduce waste, minimize polystyrene and plastic bag use and promote composting and recycling.

Objective CSR 6.2 Food and Organic Waste

Develop partnerships with Solid Waste Authority, stakeholders, and waste haulers to decrease the amount of food and organic waste citywide.



GOAL CSR 6 SUSTAINABLE WASTE MANAGEMENT, URBAN AGRICULTURE AND FOOD PROGRAMS

Policy CSR 6.2.1

Explore opportunities with the Solid Waste Authority and its waste hauler to implement a food and organic waste recycling program to potentially include collection of containers for, and recycling of, fruits and vegetables, meat, poultry, seafood (bones and shells), bakery items and ingredients, eggs and paper egg cartons, plants, cut flowers, potting soil, coffee grounds, filters, tea bags and paper products (napkins, paper towels), which could include a shared composting program for food waste management.

Policy CSR 6.2.2

Prepare educational materials on restaurant-based recycling strategies and work with waste hauler to target distribution to largest enterprises and ensure availability of recycling containers for other waste materials.

Policy CSR 6.2.3

Identify or designate other materials that the City aspires to have handled separately (such as organic material or pre-consumer waste) through partnerships with the Solid Waste Authority and/or new services by amending the current Waste Management Agreement, or in negotiating future contracts with waste management entities identify opportunities for community composting programs where food and organic waste may be handled separately and used to create natural compost to be used in community gardens or sold to interested parties.

Objective CSR 6.3 Disposal of Waste on Beaches

Protect the character of the public beach through promotion of coastal cleanup activities and supporting the proper disposal of solid waste and recyclable materials.

Policy CSR 6.3.1

Restrict litter and marine pollution at City events and activities.

Policy CSR 6.3.2

Promote recycling of waste generated by residents and visitors of Delray Beach's public beach by providing recycling receptacles and public notices.

Policy CSR 6.3.3

Support the coastal cleanup program conducted by the Keep America Beautiful and any other approved coastal cleanup activities.

Policy CSR 6.3.4

Partner with community organizations, schools, agencies, and nonprofit groups to sponsor at least bi-annual coastal cleanup events.

Objective CSR 6.4 Local Food Resources

Maximize local resources for energy-efficient food processing within the city's local foodshed and encourage location-appropriate urban agriculture and community gardening.

Policy OPR 3.4.1

Policy CSR 6.4.1

Partner with local and regional Strategic Partners to delineate and promote a local foodshed as part of a sustainable local food system.

Policy CSR 6.4.2

Work with local and regional Strategic Partners in the defined foodshed to identify processing facilities and related infrastructure needed to process locally grown foods.

Policy CSR 6.4.3

Create programs and policies that encourage and support composting, community garden networks and local food production, in order to meet the multiple goals of reduced emissions and energy consumption, while increasing the resiliency and long-term food security of the community.

Policy OPR 3.4.1

Policy CSR 6.4.4

Encourage backyard agriculture and community gardening throughout the city, increase the use of locally grown and/or processed foods in City facilities where food is provided, and encourage other local government facilities to do the same.

Policy OPR 3.4.1

Policy CSR 6.4.5

Work to facilitate partnerships between local farmers and local government organizations to



GOAL CSR 6 SUSTAINABLE WASTE MANAGEMENT, URBAN AGRICULTURE AND FOOD PROGRAMS

provide healthy, fresh foods in local schools and other institutions.

Policy CSR 6.4.6

Support the City's Green Market and encourage participation of local city-based growers. Permit and encourage small-scale agricultural production and sale direct to the public.

Policy CSR 6.4.7

Explore opportunities for more community gardens to be located on publicly held lands by partnering with local Strategic Partners to provide fresh food for non-commercial use and green spaces.

Policy OPR 3.4.1



GOAL CSR 7 SUSTAINABLE PRACTICES THAT INCREASE THE TRIPLE BOTTOM LINE

BECOME MORE SUSTAINABLE THROUGH THE ADOPTION AND IMPLEMENTATION OF POLICIES AND PROGRAMS THAT PROVIDE ENVIRONMENTAL, ECONOMIC, AND SOCIAL BENEFITS TO RESIDENTS, BUSINESSES, AND VISITORS.

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

- 🌱 Develop and adopt a Sustainability and Climate Action Plan;
- 🌱 Track and increase the number of sustainability policies or regulations adopted including policies incorporated into procurement guidelines;
- 🌱 Continue annual reporting from the Green Implementation Advancement Board;
- 🌱 Increase in the number of City events and resources promoting sustainable practices;
- 🌱 Increase in education and outreach materials promoting sustainable practices;
- 🌱 Increase in sustainability and climate resiliency web page traffic;
- 🌱 Promote the green economy by increasing sustainability-related business within the city;
- 🌱 Number of solar systems installed on City buildings and facilities; and,
- 🌱 Track participation and attendance at major community arts and cultural events, performances, festivals, and programs where green or sustainability educational materials are presented, or materials are distributed.

Objective CSR 7.1 City Sustainability Practices

Develop a baseline of City sustainable practices and determine methods to increase the sustainability of the city with prioritized actions that result in the greatest greenhouse gas reductions.

Policy CSR 7.1.1

Evaluate and update the Land Development Regulations to incorporate sustainable community development best practices identified by green industry experts and organizations. [Complete by 2025]

Policy CSR 7.1.2

Build on the work of the Green Implementation Advancement Board, previous Sustainability Reports and recommendations of the City's Green Task Force by developing a Sustainability and Climate Action Plan that prioritizes actions, recommendations and outcomes to reduce greenhouse gas emissions. Update the Sustainability and Climate Action Plan recommendations every five (5) years. [Complete by 2025]

Policy CSR 7.1.3

Review and update the City's procurement guidelines to address the importance of energy efficiency, renewable energy, reductions in greenhouse gas emissions, recycling, and other sustainable practices; create a purchasing policy providing preference for the procurement of safe, healthy, and environmentally responsible products.

Policy PFE 7.2.1, 7.2.3

Policy CSR 7.1.4

Meet the City's greenhouse gas reduction goals and highlight renewable energy projects to the community by requiring new major public facilities or retrofits include solar energy or other renewable energy source, where feasible, or provide design and construction to accommodate future installation as set forth in Policy CSR 5.2.

Policy PFE 7.2.3



GOAL CSR 7 SUSTAINABLE PRACTICES THAT INCREASE THE TRIPLE BOTTOM LINE

Objective CSR 7.2 Sustainability Implementation

Determine an actionable set of recommendations to implement environmental commitments in a timely, cost-effective, and citizen-centric manner, and explore new opportunities for sustainability.

Policy CSR 7.2.1

Conduct an annual review of City operations and policies toward achieving Delray Beach's green and sustainability goals and provide a report of recommendations to the City Commission regarding:

1. Improved environmental sustainability of City programs, services, and equipment facilities.
2. Improved environmental sustainability of the community.
3. Incentives for residents, businesses, and organizations to practice environmental conservation including recycling.
4. Proposed means to enhance water and energy conservation.
5. Promotion of native tree planting, and native and environmentally-friendly landscaping.
6. Best Practices for implementation in Delray Beach, including long-term strategies.
7. Proposed revisions to City Ordinances to address Green Technologies and operations.
8. Strategies to address factors that affect energy conservation.

Policy OPR 3.5.3

Objective CSR 7.3 Sustainability Initiatives

Increase community and staff awareness, and support for, sustainability initiatives.

Policy CSR 7.3.1

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 PFE 7.2.1, 7.2.4

Policy CSR 7.3.2

Provide sustainability training for City staff and establish a City Green Team with representatives from each City department.

Policy CSR 7.3.3

Conduct an annual review and update regarding sustainability information available on the City's website, and coordinate input with other City departments to cross reference common programs and initiatives.

Policy CSR 7.3.4

Track participation, attendance or other performance measures for major community arts and cultural events, performances, festivals, and programs where green or sustainability educational materials are presented or materials are distributed.

Policy CSR 7.3.5

Collaborate with neighborhood associations, civic groups, and local service providers to identify and address neighborhood-specific needs with regard to sustainability and climate issues.

Policy CSR 7.3.6

Develop partnership opportunities with Palm Beach County Public Schools through the District's School Sustainability program to collaborate with city students on sustainability activities.

Objective CSR 7.4 Green Economy

Encourage the development of the green industry and businesses to diversify the local economy and make a positive environmental contribution to the city.


Policy CSR 7.4.1

Coordinate plans and programs with Palm Beach County, neighboring cities, power companies, businesses, and other Strategic Partners to reduce greenhouse gas emissions by:

- Expanding the market for energy efficient products and services;
- Supporting alternative and renewable energy production through innovative financing; and,



GOAL CSR 7 SUSTAINABLE PRACTICES THAT INCREASE THE TRIPLE BOTTOM LINE

 Promoting and incentivizing energy conservation retrofits.

Policy SPE 1.5.20

Policy CSR 7.4.2

Strengthen the local economy by promoting green business training programs in industries that reduce reliance on fossil fuels; advance the use of sustainable materials, technologies, and services; and encourage local jobs in climate-change conscious, sustainable businesses that offer a living wage job.

Policy CSR 7.4.3

Track increased number of green business establishments, including nonprofits, in the jurisdiction over time from a 2018 baseline through occupational licenses or other mechanism. Partner with the Community Redevelopment Agency and Downtown Development Authority to create incentives and promotional events for green businesses and services

Policy CSR 7.4.4

Create programs that directly help businesses transition to new green practices and implement a green business promotion program.

Policy CSR 7.4.5

Create or support promotional campaigns to bank locally, buy locally, or buy from small and independent businesses and retailers.



GOAL CSR 8 INCREASED RESILIENCE

SUPPORT INCREASED RESILIENCE TO SEA LEVEL RISE, FLOODING, STORMS AND OTHER DISRUPTIVE WEATHER EVENTS.

Performance Measures: Success in addressing the Objectives and Policies of **Goal CSR 8** shall be measured utilizing the following performance indicators:

- Completion of a Sustainability and Climate Action Plan with a vulnerability analysis;
- Number of shoreline protection projects completed;
- Dune health, width, and elevation;
- Percent of restored seawalls;
- Percent of raised seawall;
- Number of shoreline-strengthening capital projects completed;
- Number of capital projects with resiliency features that reduce flooding or other impacts from other weather events including green infrastructure;
- Establish tree canopy goals to mitigate heat island impacts and increase stormwater benefits; and,
- Increase community awareness of the need to address vulnerabilities and increase resiliency through the number of outreach events.

Objective CSR 8.1 Protection from Erosion

Implement programs and techniques to protect property from erosion and deterioration created by the impacts of wind and water.

Policy CSR 8.1.1

Continue to control erosion from wind and flowing water through the building permit review and inspection process and the soil erosion control ordinance.

Policy CSR 8.1.2

Promote the replacement of vertical seawalls with naturally sloped shorelines, living shorelines, mangrove replanting and other non-structural strategies, where possible; use vertical seawalls when found to be in the overriding public interest to reduce impacts from tidal flooding, sea level rise, and other weather-related events.

Policy CME 1.6.8, 3.1.4

Policy PFE 4.2.5

Policy CSR 8.1.3

Continue to support Palm Beach County's program to restore and protect the shoreline of Lake Ida and continued monitoring of boating activity in the lake to assure that this activity does not produce adverse impacts on the shoreline.

Policy CSR 8.1.4

Consistent with the City of Delray Beach Intracoastal Waterway Water Level & Infrastructure Vulnerability Study, review and revise seawall height requirements for all City and privately-owned seawalls within two (2) years to address sea level rise and tidal flooding. [Complete by 2022].

Policy CME 3.3.2

Policy CSR 8.1.5

Consistent with the City of Delray Beach Intracoastal Waterway Water Level & Infrastructure Vulnerability Study, continue to undertake necessary repair, replacement, and maintenance of City owned seawalls and stormwater outfalls along the Intracoastal Waterway and canals.

Policy CIE 3.1.9

Policy CME 3.3.5

Objective CSR 8.2 Coastal Construction

Continue to enforce, as a part of the Land Development Regulations, the rules and regulations of the Florida Department of Environmental Protection that establish a "Coastal Construction Control Line" and an "Erosion Control Line"



GOAL CSR 8 INCREASED RESILIENCE

Policy CSR 8.2.1

Continue to administer regulations that prohibit non-beach related construction seaward of the Erosion Control Line (ECL) and provide performance standards for construction seaward of the Coastal Construction Control Line (CCCL). Any construction activities seaward of the coastal construction control line shall be consistent with Chapter 161, F.S.

Objective CSR 8.3 Minimize Coastal Impacts

Enforce the coastal construction standards that minimize further impacts of man-made structures on City beaches, and restore altered beaches.

Policy CSR 8.3.1

Limit the use of beaches and shorelines to appropriate ocean-oriented conservation and recreation.

Policy CME 2.1.1

Policy CSR 8.3.2

Maintain or improve the existing natural conditions on the City public beaches.

Policy CME 2.6.4

Policy CSR 8.3.3

Coordinate with the State to implement state-of-the-art beach and dune stabilization techniques as needed.

Policy CSR 8.3.4

Limit the cumulative effects of development on natural systems by strict maintenance of setback requirements, adherence to stormwater retention requirements, retention of publicly owned natural habitats, and the use of transfer of development rights.

Policy CME 2.4.1, 2.6.4, 2.6.8

Policy CSR 8.3.5

Prohibit the destruction or degradation of natural inter- and sub-tidal vegetative communities in the development of new man-made estuarine beaches, except for overriding public interest.

Policy CME 2.6.8

Objective CSR 8.4 Green Infrastructure

Protect and enhance local and regional ecosystems, optimizing the co-benefits of habitat restoration, coastal buffers, wetland mitigation, urban reforestation, and expanded green infrastructure, in order to mitigate against heat island impacts, reduce greenhouse gas emissions and provide stormwater retention benefits.

Policy PFE 4.2.5

Policy OPR 3.4.3

Policy CSR 8.4.1

Conduct a tree inventory (including City rights-of-way and private lands) and set an appropriate canopy goal (with a native canopy component) to maintain as a strategy to address heat islands and stormwater; develop a list of priority planting areas in conjunction with the inventory.

Policy OPR 1.2.2, 3.5.1 & 3.5.2

Policy CSR 8.4.2

Maintain the City's status designated as a Tree City USA, and seek funding to develop and maintain an urban reforestation program, expand green infrastructure, reduce the heat island effect, and encourage local carbon sequestration and storage.

Policy OPR 3.3.3

Policy CSR 8.4.3

Develop data regarding current and projected heat island effects in the city. Encourage planting of native trees known to sequester carbon on available public and private lands and pursue programs and funding strategies designed to mitigate heat island effect and create carbon emission offsets through tree plantings and/or carbon mitigation banks.

Policy OPR 3.5.3

Policy CSR 8.4.4

Incorporate native species and ecosystem vulnerability to climate change into land use planning, land acquisition, mitigation projects and conservation planning and easement considerations.

Policy CME 2.4.2



GOAL CSR 8 INCREASED RESILIENCE

Policy CSR 8.4.5

Analyze water and stormwater management operations in the context of sea level rise, to lessen negative impacts to open spaces, wetland mitigation areas, and natural systems, improve the ability of these native ecosystems to adapt to climate change, and optimize the ability of these systems to create additional benefits to the city's residents and visitors.

Policy PFE 4.1.4, 4.2.5

Policy CME 3.1.4

Objective CSR 8.5 Reduce Vulnerability

Prepare the City's land, infrastructure and historic assets to become less vulnerable and withstand flood and other weather-related disruptions.

Policy CSR 8.5.1

Complete a City Sustainability and Climate Action Plan and a vulnerability analysis that addresses:

- ❖ Flood risk from weather-related events and sea level rise;
- ❖ Heat, drought, and other environmental changes;
- ❖ The vulnerability of public facilities and services (buildings, water and wastewater facilities, stormwater systems, mobility infrastructure, power generation facilities, health services and facilities, historic assets, and conservation areas, as well as economic impacts);
- ❖ Recommendations to mitigate risk, including a comprehensive suite of capital improvements projects;
- ❖ A long-term funding strategy for climate adaptation; and,
- ❖ Recommendations for revisions to the Land Development Regulations to include design criteria that address future climate impacts.

Update the analysis every five (5) years. [Complete by 2025]

Policy PFE 4.2.4, 7.2.2

Policy CME 3.1.1, 3.1.4, 3.1.5, 3.7.1, 3.7.2

Policy CSR 8.5.2

Maintain and enhance current and best available data for mapping and analysis in preparation of the Sustainability and Climate Action Plan with a vulnerability analysis including, but not limited to, accurate elevation data and other necessary modeling data. Include recent data from the

City's 2018 Stormwater Master Plan Update and Intracoastal Waterway Water Level & Infrastructure Vulnerability Study into the development of the Sustainability and Climate Plan.

Policy PFE 4.1.1 4.2.1, 4.2.4, 4.2.6

Policy CSR 8.5.3

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

Policy CME 3.2.5

Policy PFE 6.1.10

Policy CSR 8.5.4

Ensure development is resilient through the implementation of vulnerability and adaptation principles into policies in the Strategic Plans, comprehensive plan, capital improvements plans, building codes, life-safety codes, emergency management, land development and zoning regulations, water resource management, flood control and stormwater management, coastal management, and community development frameworks.

Policy PFE 4.1.4, 4.2.3, 4.2.4

Policy CME 2.2.5

Policy 8.5.5

Create a Transfer of Development Rights program, including sending and receiving areas, to encourage development and redevelopment in less vulnerable areas and discourage it in flood prone areas.

Policy CME 2.2.6, 3.1.3

Policy NDC 2.1.4

Policy CSR 8.5.6

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 PFE 4.1.4, 4.2.6

Policy CSR 8.5.7

Develop first floor elevation information within building footprints for City facilities (and critical non-City owned facilities and assets). Identify



GOAL CSR 8 INCREASED RESILIENCE

facilities, municipal and critical, within the special flood hazard area (SFHA) which should receive site level investigation including elevation data and engineering assessments of vulnerability. Analyze elevation data for surrounding roads for City and critical at-risk facilities to determine impacts from future conditions. This data should be integrated into a GIS management tool.

Policy PFE 7.2.1, 7.2.2

Policy CME 3.1.5

Policy CSR 8.5.8

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

Policy PFE 7.3.2, 7.3.3

Policy CSR 8.5.9

Inventory socially vulnerable facilities serving at-risk populations, such as elderly or assisted living, who reside in facilities that may not have auxiliary power sources and ensure they are complying with state statutes.

Policy CSR 8.5.10

Consider building elevations and future flood risk in the historic preservation review process and create programs and materials that help property owners adapt to flood threats and sea level rise.

Policy CME 2.5.1, 2.5.3

Policy CSR 8.5.11

Continue monitoring of potential saltwater intrusion into the City's groundwater supply.

Policy PFE 2.3.1

Policy CSR 8.5.12

Inventory critical water and wastewater treatment plants to ensure adequate auxiliary power and chemical and mechanic spare resources are available to ensure the City has the capability to operate and produce water and treat and dispose wastewater in accordance with State Statutes.

Policy CSR 8.5.13

Enhance pre-disaster and post-disaster debris management activities to increase clearing and decrease obstruction after storm events including permit streamlining and debris mulching

opportunities for residents and City facilities, and ensure that post disaster debris management does not impact rare or listed species, or native ecosystems.

Policy CSR 8.5.14

Provide resources and better link pre-disaster planning, post-disaster recovery and resiliency planning through improvement in the City's Community Rating System Class rating of 8 including the following strategies:

- ✦ Enhance public outreach activities and resources that can improve future Community Rating System cycle reviews that focus on flood risk and FEMA mapping.
- ✦ Evaluate the administrative costs associated with pursuit of additional "future conditions" credits in the Community Rating System against the insurance premium reductions that will accrue to the approximately 7,500 (as of 6/30/18) property owners who currently hold flood insurance policies through the National Flood Insurance Program. If the benefits outweigh the costs, the City should consider pursuing these credits in the Community Rating System program.

Policy CME 3.8.1, 3.8.2

Policy CSR 8.5.15

Prior to incorporating a new project to the Capital Improvements Element, review for resiliency, including future flooding and heat conditions, and account for the impacts from climate change, including but not limited to, sea level rise and storm surge. 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 CIE 3.1.8

Policy CME 3.1.4, 3.2.5

Policy PFE 4.2.4, 7.2.2

Objective CSR 8.6 Coordinate Resources

Continue to work with strategic partners to share resources and data related to climate, vulnerability and sea level rise, as well as common resiliency strategies to address impacts.



GOAL CSR 8 INCREASED RESILIENCE

Policy CSR 8.6.1

Coordinate with agencies such as the Florida Department of Emergency Management, South Florida Water Management District, NOAA, the US Army Corps of Engineers, the US Geological Survey, State of Florida agencies and others to use the best available data and tools for climate modeling and analytical efforts.

Policy CSR 8.6.2

Continue participation with Strategic Partners, including the Southeast Florida counties and municipalities, academia, and state and federal government agencies in the analysis of sea level rise, drainage, storm surge and hurricane impacts and the planning of mitigation and adaptation measures. Coordinate to create and support new initiatives and incorporate new data, such as updated sea level rise projections, into future decision-making. Coordinate efforts with the latest version of the Regional Climate Action Plan and other appropriate regional planning initiatives.

Policy CME 3.1.2

Policy SPE 1.5.25

Policy CSR 8.6.3

Coordinate with the South Florida Water Management District and Lake Worth Drainage District to address efforts related to sea level rise impacts on coastal structures upon which Delray's drainage capacity is linked.

Policy PFE 4.2.7

Policy CSR 8.6.4

Participate in the development of the County's Local Mitigation Strategy to better link resiliency, climate preparedness and emergency management through the submission of projects within the context of the City's preparedness and emergency plans.

Policy CSR 8.6.5

Partner with the Department of Health on programs and initiatives to exchange data, plan and educate the community on the public health consequences of climate change, such as extreme temperatures and vector-borne diseases, and take steps to build capacity to respond to or prevent those consequences.

Policy CSR 8.6.6

Continue to collaborate with Strategic Partners and organizations that provide advocacy, education, and outreach efforts including, but not limited to The Sandoway House Nature Center, the American (and Florida) Shore and Beach Preservation Association, Marine Industries Association of Florida, etc.

Policy CSR 8.6.7

Coordinate resiliency planning efforts with Florida Power & Light to develop partnerships and project collaborations with the goal of reducing storm or climate-related impacts to the power grid.

Objective CSR 8.7 Outreach on Resiliency

Increase communitywide dialogue on the importance of mitigation and response to flooding, sea level rise, heat events and weather-related events to increase the city's resiliency.

Policy CSR 8.7.1

Increase resilience to, and community awareness of, natural and man-made hazards or disasters through education and outreach materials.

Policy CSR 8.7.2

Discuss the City's vulnerability and resiliency strategies with Strategic Partners in the business community to avoid business disruption due to floods, weather events and disasters. Work with the business community to develop resources encouraging business continuity planning.

Policy 8.7.3

Develop a communications strategy in conjunction with the City Sustainability and Climate Action Plan that includes targeted outreach events, signage on sea level rise impacts at key public locations, and other creative components and events.

Objective CSR 8.8 Social Aspects of Resiliency

Identify socially vulnerable populations at risk from future climate impacts, including flooding and heat exposure, to develop initiatives that address service deficiencies and increase the resilience and equity of those areas.



GOAL CSR 8 INCREASED RESILIENCE

Policy CSR 8.8.1

Ensure vulnerability assessments specifically identify and quantify socially vulnerable populations at risk from aging infrastructure or lack of economic capacity to respond to climate-related events and develop strategies that are sensitive to these characteristics of those areas.

Policy CSR 8.8.2

Partner with organizations, such as the Department of Health and other nonprofit organizations, to develop educational materials and community outreach events for socially vulnerable populations to increase awareness of tools to improve resiliency in these areas of the city.

Policy CSR 8.8.3

Increase and diversify opportunities for public input in the capital planning process, determine strategies to reach vulnerable populations.



GOAL CSR 9 EMERGENCY PREPAREDNESS

MINIMIZE DAMAGE TO PUBLIC FACILITIES AND DISRUPTION OF SERVICES TO THE PUBLIC DUE TO NATURAL OR OTHER DISASTER BY PRE-DISASTER PLANNING.

Performance Measures: Success in addressing the Objectives and Policies of **GOAL PFE 9** (Emergency Preparedness) shall be measured utilizing the following performance indicators:

- Number of projects that “harden” City facilities;
- Adoption of an Emergency Operations Plan;
- Preparation, completion, and implementation of a Continuity of Operations Plan (COOP); effectiveness of execution of COOP (if needed); and,
- Remaining available capacity at emergency shelters during storm.

Objective CSR 9.1 Hardened Public Facilities

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

Objective PFE 7.2 & 7.3

Policy CSR 9.1.1

Include design features in new construction or reconstruction of public facilities that “harden” public facilities and add, where appropriate, self-sustaining energy sources (i.e. solar with backup battery power) to enable facilities to continue to provide services and be used as a safe haven during storm events.

Policy PFE 7.3.1, 9.1.1

Policy CSR 9.1.2

Plan for and work with others to upgrade the information/technology (IT) infrastructure in the City to assist with rapid post-disaster recovery.

Policy CME 9.1.2

Policy CSR 9.1.3

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 PFE 7.3.3

Policy CSR 9.1.4

Continue to participate in the Palm Beach County Local Mitigation Strategy Group and propose projects for funding via Federal Emergency Management Agency’s Hazard Mitigation Grant Program.

Objective CSR 9.2 Emergency Operations Plan

Adopt an Emergency Operations Plan that includes the existing disaster planning and recovery programs of the City, coordinate with other County plans and procedures, which shall be reviewed annually.

Policy CSR 9.2.1

Model the City’s Emergency Operations Plan after the Federal Emergency Management Agency standards for Emergency Operations Plans and include all departmental Continuity of Operations Plans.

Policy CSR 9.2.3

Review the City’s Emergency Operations Plan on an annual basis to ensure the plan is consistent with the Palm Beach County Comprehensive Emergency Management Plan.

Policy CSR 9.2.4

Address both immediate and short-term considerations in the Emergency Operations Plan, including mobilization for cleanup; repair, and restoration of services; removal of hazards and damaged structures; and, coordination of interagency hazard mitigation and response reports/programs. The Plan shall include a post disaster recovery component for “all hazards,” natural (excessive heat, drought, flood, hurricanes, storms) and man-made disasters (chemical spill, large event attack, terrorist attacks, attacks on public infrastructure).

Policy CSR 9.2.5

Provide direction for the redevelopment of properties with nonconforming structures that are



GOAL CSR 9 EMERGENCY PREPAREDNESS

significantly damaged or destroyed by natural disasters in the Land Development Regulations.

Policy NDC 3.5.4

Policy CSR 9.2.6

Adopt and utilize the shelter plan in the Palm Beach County Comprehensive Emergency Management Plan. Periodically assess the need for additional emergency staff shelter capacity and, when a need is anticipated, plan and budget for expanded capacity. To fund shelter expansions, consider an impact fee based on new residential development.

Objective CSR 9.3 Continuity of Operations

Execute the steps outlined in the adopted Continuity of Operation Plan, as needed, for each event to ensure efficient and timely planning before, during, and after an event.

Policy CSR 9.3.1

Adopt and maintain a Continuity of Operation Plan for all City departments to complete the Emergency Operations Plan and train departmental staff to implement the plan. [Complete by 2022].

Policy CSR 9.3.2

Ensure that all facilities, roadways, and public services are prepared for an event.

Policy CSR 9.3.3

Assess damage and impacts as soon as possible following the event.

Policy CSR 9.3.4

Provide a timely clean-up, restoration of community support, and continuity of operations of City services.

Policy CSR 9.3.5

Coordinate with FEMA to ensure appropriate assistance is provided to the City and its residents based on the impact of the event.

Policy CSR 9.3.6

Evaluate and assess the actions taken before, during, and after an event to identify areas for improvement and of strength to ensure readiness for the next event.

Policy CSR 9.3.7

Continue established and ongoing programs for emergency preparedness, emergency evacuation, and disaster relief and enhance and expand such programs through periodic reviews. After a significant event, evaluate the effectiveness of these programs and policies, as well as those of the County, schools, hospitals, etc. and provide an after-action report to the public.

Policy CSR 9.3.8

Maintain a coastal high hazard evacuation time of 7-10 hours, and reduce hurricane clearance times within the city as a component of maintaining and reducing evacuation times for Palm Beach County and the region.

Policy CME 4.1.2

Objective CSR 9.4 Public Information on Disasters

Continue to inform the public of the impact of potential natural disasters and hazard events, before, during and after events, as well as measures taken to protect human life and property.

Policy CSR 9.4.1

Maintain and enhance means of public information before, during, and after named and unnamed events using text messaging, social media, AM radio station, other means of communication when no power available.

Policy CSR 9.4.1

Provide public education campaigns to increase understanding of the potential impacts of natural disasters, including evacuation areas, evacuation routes, and preparedness.

Policy CSR 9.4.2

Provide public information regarding planned and completed infrastructure projects to mitigate the impacts of natural disasters, such as, but not limited to storm surge and tidal flooding.

Policy CSR 9.4.3

Provide public information regarding programs and grants available to harden properties.



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

GOAL PFE 1	PRIORITIZATION OF PROJECTS ENHANCE PUBLIC FACILITIES AND THE PROCESSES USED TO IDENTIFY AND FINANCE IMPROVEMENTS IN ACCORDANCE WITH THE GUIDELINES FOR PRIORITIZING CAPITAL IMPROVEMENT PROJECTS.
GOAL PFE 2	POTABLE WATER SYSTEM 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.
GOAL PFE 3	WASTEWATER MANAGEMENT MAINTAIN AND UPGRADE FACILITIES TO EFFECTIVELY COLLECT, TREAT, AND PROPERLY DISPOSE OF WASTEWATER AND SYSTEM BYPRODUCTS FOR THE PROTECTION OF THE ENVIRONMENT.
GOAL PFE 4	STORMWATER MANAGEMENT AND FLOOD PREVENTION AND MITIGATION 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.
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.
GOAL PFE 6	TRANSPORTATION AND MOBILITY 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.
GOAL PFE 7	PUBLIC BUILDINGS AND FACILITIES 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 tax payment.

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.



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 potable water produced;
- 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, monitoring for salt water intrusion, 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, maximizing aquifer recharge areas, and additional reuse projects such as rapid infiltration basins, and utilizing the City's one existing 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 2015 10-Year Water Supply Facilities Work Plan (Work Plan), prepared by Kimley Horn and Associates, Inc. and dated February 2015 June 2021, for a planning period of not less than 10 years. is hereby adopted.



Policy CSR 2.5.1

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 ~~2008 Leah B. Schaad Ocean Outfall Act guidelines~~ 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.

Installing automatic line flushing devices throughout the potable water distribution system to reduce and monitor the amount of water used when flushing.

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~~ 216.5 gpcd.
- Storage capacity for the water system @ ~~15% of maximum flow plus fire reserve at 1.5 mg, plus 25% of that total.~~ 25% of maximum daily flow + design fire flow for 4 hours
- 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 to not exceed permitted allocations for wells and to continue monitoring for salt water intrusion, 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 ~~2008 Leah B. Schaad Ocean Outfall Act guidelines~~ 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 100-115 gpcd up to the City's portion of 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