HIGHLIGHTS

Integrated Sustainability Action Plan

iSAP
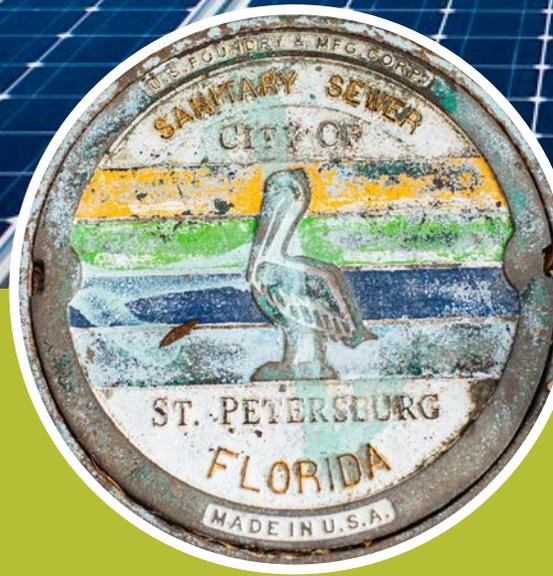integrated sustainability
ACTION PLAN

Message from Mayor Kriseman

I am proud of our work to create St. Petersburg's first Integrated Sustainability Action Plan (ISAP), an ambitious plan that prioritizes outcomes with wide-ranging benefits for our citizens. Cities must continue to lead the way in advancing sustainability and resiliency, addressing the causes of climate change, and transitioning to clean energy. We know that it is our most vulnerable citizens and businesses who are often most impacted by extreme weather and environmental disasters. That is why it is important to understand that our city is an interconnected, dynamic, living system where we consider not just long-term effect, but causes as well. It means growing smarter and providing economic and social opportunities for all who come to live, work and play. The ISAP aims to accomplish the tough tasks ahead to provide those benefits for all of our citizens.

2019 St. Petersburg City Council

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District 1, Council Chair

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District 5

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Images shown in this Highlights Report are from the City's Flickr site.

Table of Contents

This Highlights Report provides an overview of a broad amount of work and information. This report is supported by an *ISAP Technical Report*, which includes a *Vulnerability Assessment Summary Report* and a *Clean Energy Roadmap*. To assist readers in navigating the ISAP documentation, icons are included in the footer with the specific document part highlighted.

ES
Executive Summary

HR
Highlights Report

TR
Technical Report

TR APP
Technical Report Appendices

A sustainable city

is one that balances social equity and environmental stewardship with a thriving economy. It is a community that emphasizes resource efficiency and minimizes its impact on the local, regional, and global environment, while providing healthy and equitable opportunities to live, work, and play.

A resilient city

adapts and prepares for climate change effects like sea level rise and extreme weather. A resilient city means that municipal operations, businesses, and residents, including vulnerable populations, can thrive in the face of changing conditions.

Purpose and Vision

1

1.1 What is the City's Sustainability and Resiliency Vision?

The City of St. Petersburg recognizes that integrating sustainability into decision-making will enhance its equity, livability, and resiliency. Further integration of sustainability and resiliency will promote future growth that addresses environmental, economic, and social challenges in the City. Through Executive Order 2017-01, Sustainable St. Petersburg, Mayor Rick Kriseman committed to delivering progressive, sustainable policies and effective programs to address the City's environmental, economic, and social challenges. These policies and programs can fulfill the vision of a St. Petersburg with the capacity to endure by finding the balance between environmental stewardship, economic vitality, and social equity.

1.2 Why is the City Developing the Integrated Sustainability Action Plan (ISAP)?

For the first time, the City is developing a comprehensive sustainability plan to advance our sustainability and resiliency goals, including 100% clean energy goals. Specifically, the ISAP has been developed to:

+ Define the City's and community's existing greenhouse gas (GHG) emissions inventory and identify reduction strategies;

+ Develop an initial, high-level roadmap for 100% clean energy in the City; and

+ Serve as a blueprint for integrating sustainability and resiliency across all City departments.

In February 2015, City Council formed what is now known as the Health, Energy, Resiliency, & Sustainability Committee (HERS) to provide City Council leadership and to work with the Mayor and the community on sustainability challenges.

1.3 How Will the ISAP Be Used?

The ISAP guides the City and community partners to implement programs and strategies that enhance sustainability and resiliency across municipal department operations and throughout the community. The ISAP informs City sustainability priorities and identifies areas for improvement. The ISAP will be considered as part of the budget process, and used with many other plans and projects. **Figure 1.3-1** shows a limited selection of City and regional plans and policies, and how the ISAP interacts with them.

ES HR TR TR APP

STAR Community Rating System

The Sustainability Tools for Assessing & Rating, or STAR Community Rating System, is the nation's leading framework and certification program for evaluating community-wide sustainability, encompassing economic, environmental, and social performance measures. The STAR framework helps communities assess their efforts in key areas and define sustainability for themselves. St. Petersburg was certified as a 3-STAR community in December 2016. The STAR Community Rating System was used as a foundational framework for this ISAP.

Figure 1.3-1 Interaction of ISAP and Other City Plans and Policies

PLAN / POLICY	INPUT TO ISAP	OUTPUT FROM ISAP
E.O. 2017-01, SUSTAINABLE ST. PETERSBURG	Vision, mission statement, core values and goals	Comprehensive planning & implementation of E.O.
STAR COMMUNITIES	Baseline sustainability assessment and focus categories	Community prioritization based on ISAP engagement
REALIZING RESILIENCE	Resiliency enhancement actions	- Consistency of sea-level rise predictions - Advancement of planning for resiliency actions
GROW SMARTER INITIATIVE	Economic development strategies	Aligned common themes to implement
ONE COMMUNITY	CRA and TIF priorities: - Affordable Housing actions - Economic Development & Workforce Readiness	- Racial and social equity - Equity in engagement and investments needs
E.O. 2018-04, HEALTHY ST. PETERSBURG	Community and social focus	Preliminary guidance for healthy, active St. Petersburg priorities
COMPLETE STREETS IMPLEMENTATION PLAN	Bicycle/pedestrian safety as a transportation priority	Implementation actions consistent with ISAP
INTEGRATED WATER RESOURCES MASTER PLAN	- Vulnerability assessment technical assistance - Green infrastructure principles	Targeted measures for green infrastructure, including tree canopy, and environmental protection
STORMWATER MANAGEMENT MASTER PLAN	Vulnerability Assessment input	Consistent use of most recent best available science in development
DOWNTOWN WATERFRONT MASTER PLAN	- Stewardship and connectivity of the environment - Active parks	Priorities alignment implemented with DWMP
TROPICANA MASTER PLAN	District goals defined by stakeholders	Smart Cities, Healthy Community Design, and Sustainable/Resilient infrastructure planning
TAMPA BAY REGIONAL RESILIENCY COALITION (TBRRC)		- Regional resiliency leadership - GHG emissions inventory
st.petersburg 2050 PLAN		- Clean Energy Roadmap - Prioritization of common themes, Grow Smarter, and ISAP strategies

ES HR TR TR APP

Community and Business Engagement Summary

2

Community and business engagement was a critical part of developing the common themes of this plan. From the outset, the City solicited feedback from a diverse pool of community stakeholders, from elected officials to community organizations, businesses, and individual residents, to understand what sustainability means to the community and to gather ideas for implementation.

2.1 Outreach and Engagement Efforts

Figure 2.1-1 shows the timing and scale of outreach and engagement events, and **Figure 2.1-2** lists the public surveys conducted during development of the ISAP. Concurrent City efforts like the South St. Petersburg Community Redevelopment Area (CRA) and housing initiatives informed ISAP priority actions. In some cases, ISAP updates were given at those events, and feedback was incorporated into the ISAP.

The City's sustainability and resiliency web page was updated throughout the planning process to provide the public information about the project status and ways to contribute to the ISAP: **www.stpete.org/sustainability**

The public also communicated to the project team through email at **StPeteISAP@vhb.com.**

Figure 2.1-1 Outreach and Engagement Efforts During ISAP

HERS Committee Updates
November 2017

City Internal Green Team "Special Convening"
January 10, 2018
15 Participants

City Department Leaders Interviews
February 2-13, 2018
14 Participants

Sierra Club Coordination Meeting
February 20, 2018
6 Participants

Gateway Business Association
February 22, 2018
20 Participants

Housing Development & Affordability Initiatives – Public Outreach
March – September 2018
30 Participants

CRA Advisory Committee
March 6, 2018
15 Participants

Sustainability Stakeholder Groups Meeting (Food, Energy, Natural Systems, Transportation)
March 27, 2018
33 Participants

Skyway Marina Mall Business Group Meeting
April 5, 2018
40 Participants

SciCafe – Dali Museum
April 5, 2018
Approx. 100 Participants

Alliance for Bayway Communities Meeting
April 10, 2018
Approx. 50 Participants

Mayor's Executive Task Force on Sustainability and Resiliency
April 18, 2018
Jan/Feb 2019 (TBD)
29 Participants

Earth Day
April 21, 2018
30+ Participants

Business Associations Meeting
May 10, 2018
17 Participants

Deuces Live Board Update
May 29, 2018
6 Participants

Ocean Team Update
May 30, 2018

NGO Stakeholder Group
June 6, 2018
15 Participants

CRA Summit for South St. Petersburg
June 19, 2018
100+ Participants

Vulnerability Assessment Workshop
June 22, 2018
18 Participants

Interfaith Workshop
June 28, 2018
42 Participants

CRA Workforce Readiness – Apprenticeship and Career Fair
June 29, 2018

HERS Committee Updates
July 2018

ISAP Energy Workshop – OPEN Training
August 10, 2018
10 Participants

Sustainability Summit
August 14, 2018
110 Participants

Clean Energy Workshop
October 9, 2018
22 Participants

HERS Committee Updates
December 2018

ISAP Public Review & Open House
January 3, 2019
25+ Participants

Complete Streets Committee
Ongoing
10-20 Participants per meeting with two ISAP focused presentations

Mayor's Bicycle Pedestrian Advisory Committee
Ongoing
20-25 Participants per meeting with two ISAP focused presentations

● ISAP-focused events

● Concurrent City events with similar common themes and that included discussion of the ISAP

Figure 2.1-2 Public Survey Responses During ISAP

PUBLIC SURVEY #1: Sustainability Focus Areas
1,595 Respondents
JAN 2–MAR 6, 2018

Mayor's Executive Task Force on Sustainability & Resiliency Survey
29 Attendees **13** Respondents
APR 18–25, 2018

Business Associations Survey
17 Attendees **8** Respondents
MAY 10–17, 2018

Interfaith Workshop Survey
42 Attendees **14** Respondents
JUN 28–JUL 6, 2018

PUBLIC SURVEY #2: Focus on Strategies & Initiatives
61 Respondents
SEP 7–NOV 1, 2018

2.2 Resulting Common Themes

The ISAP team utilized several tools and exercises as part of business and community engagement, including STAR Communities objectives and priorities to spark conversations; risks, needs, and opportunity exercises for businesses; and open discussions. Through discussions with different groups, two issues emerged:

+ Equity must be central to all sustainability action across the City. This means racial and socioeconomic equity, and more explicitly that education and access to opportunity is a civil right.

+ Disparities exist in the availability of accessible and affordable housing, access to quality jobs, and multi-modal transportation options.

While STAR Communities is the baseline measurement system and selected framework for sustainability actions in this document, the issues identified from outreach and engagement helped to define distinct themes. The ISAP common themes are also consistent with the themes and working groups of the City and Chamber of Commerce's collaborative effort, Grow Smarter, also shown below.

These themes serve as the basis for the targets, objectives, and priority actions identified through this ISAP process, and also reflect the systemic and integrated nature of these issues. Therefore, this ISAP has sought to identify "win-win" opportunities to address cross-cutting issues.

ISAP Common Themes

Affordable Housing	Climate & Energy	Development & Infrastructure	Jobs & Transportation Access

Racial & Social Equity and Education as a Civil Right

Grow Smarter Focus Areas

Housing	Coordinated Education & Training / Awareness Building	District & Corridor Development	Targeted Job Creation / Entrepreneurial Growth

Culture and Community

Grow Smarter Strategy

grow smarter
ST. PETERSBURG AREA CHAMBER OF COMMERCE

The St. Petersburg Area Chamber of Commerce and the City of St. Petersburg have collaborated on a comprehensive process to assess and enhance the city's competitive position to support quality, diverse economic growth. As other cities in Florida and across the country focus increased resources and attention on growing their economies, Grow Smarter positions St. Petersburg for sustained and thoughtful economic growth.

2.3 ISAP Engagement: Equity Overview

The ISAP engagement process was developed to be inclusive of the whole community with a diversity of ideas and input. As far as responses from businesses and citizens from most parts of the city, the ISAP engagement was successful and continues. However, the ISAP efforts toward inclusive and diverse input and attendance to workshops were only marginally successful. Equity or "inequities" including racial, social, and economic were a hot topic not only as part of ISAP, but as part of other City programs around housing, workforce and economic development as well as projects like the New St. Pete Pier and Tropicana Field Redevelopment concepts.

While equity issues are nothing new to the communities historically excluded and disenfranchised, it is becoming more widely recognized that St. Petersburg residents do not enjoy the same health, resources, and opportunities because of their race and where they live. When we look at data across our communities, whether it is people's health, access to housing and good paying jobs, incomes, incarcerations or family wealth, disparities are greatest when we look by race. The city recognizes that the imbalance in engagement for the ISAP outreach mentioned above is a systematic issue for projects and the City organization, not just this plan. So, while equity work continues to generally include income inequality, environmental justice, LGBTQ, and gender topics, the City is prioritizing racial justice as part of its government and community partner work.

2.3.1 Racial Justice: A Black & White Issue in St. Petersburg

The most persistent and detrimental disparities are starkest when we look at race as noted above. The City is intentionally leading with racial justice to confront the historical racial inequities that continue to exist in our community and in our organization in large part for St. Petersburg's black citizens and businesses.

From this recognition of inequity, a critical question has emerged for the city: how do we know if we are progressing towards a fair and just community? Identifying key indicators, aligning with community partners, and incorporating statistical approaches to develop a community-scale equity baseline are vital to understanding progress.

2.3.2 Black & White Disparities: Data Overview

This ISAP section is not intended to provide a full research analysis, but provides an overview of data and recent work underway based mainly on U.S. Census and American Community Survey microdata. The recent work is being conducted by state and local partners like 2020 Task Force, One Community, Tampa Bay Black Business Initiative Fund, Pinellas Ex-Offender Re-Entry Coalition, Pinellas County Urban League, Pinellas County Opportunity Council, and UNITE Pinellas, a collective of County leaders supported by the Foundation for a Healthy St. Petersburg, United Way Suncoast, and Juvenile Welfare Board.

The data highlights below are from published research (*African Americans Rank Last in Economic Well-Being in Florida*, Analysis by Urban Market Analytics for Advancing Florida, March 20191) and other work currently underway by the community partners mentioned above.

Florida's black residents have the worst economic outcomes relative to other racial and ethnic groups. Just a few examples pulled from the March 19, 2019 research include lowest income and earnings, lowest homeownership rates and home values, lowest employment levels, lowest rates of entrepreneurship, highest poverty rates, largest group in prison, and highest child and adult poverty rate. See select supporting data in table below.

Disparity Indicator (State of FL)	Black	White
Median earnings	$24,393	$33,604
Average per person income	$17,901	$35,711
Homeownership rate	45%	73%
Child poverty rate	35%	14%
Adult poverty rate	21%	10%

Source: Urban Market Analytics for Advancing Florida, 2019.

While the above data is statewide date, Pinellas County is one of seven counties, including Hillsborough County, that account for the largest majorities of minority workers, earners, and entrepreneurs in the state. Local data matches the state trends highlighted, and local data is used in developing programs and actions for improving the black and white disparities in the city and region.

1 https://onecommunitystpete.com/advancingflorida-vision-for-inclusive-growth/

2.3.3 What is the City Currently Doing About it?

The City is working with numerous partners to create opportunity and eradicate poverty with a focus on South St. Pete Community Redevelopment Area (CRA). A few programs include the 2020 Family Wrap Around Program, My Brother's and Sister's Keeper Initiative, Cohort of Champions Wrap Around Program serving St. Pete's African-American boys and young men. In addition, the City is part of St. Pete Works!, a workforce collaborative that provides Wrap Around services to their clients as well as Mentoring, Summer Employment, and After School Employment, Take Stock in Children and other school connections, programs, and scholarships. The City also works with an appointed advisory council to address affordable housing, corridor revitalization, and residential and business grants to increase opportunities for residents and businesses.

2.3.4 What Does the ISAP Recommend for Early Action?

With many concurrent approaches underway and other actions still needed, this ISAP does not include the comprehensive solutions needed to one of the most complex issues facing St. Petersburg and many other cities. However, it is recommended for short and long-term that the black/white disparities in the city be considered as part of all actions and policies.

As part of early action, the ISAP recommends allocating budget in 2020 to build on City internal diversity and inclusivity work as an organization and to evaluate improvements for approaching projects with the black community and other communities of color. The City should also consider hiring an Equity & Inclusion Officer focused on assisting City departments, businesses, and the community with addressing racial inequities. Finally, it may be appropriate as a start, for the City to pass a resolution in support of continued and comprehensive action for experienced change.

For additional, more general equity and empowerment targets, see Section 3.6 of the report.

2.3.5 What Are Some Long-Term Resources Available for St. Pete Communities, Businesses and Government?

While there are likely many more resources locally, regionally and beyond, the following resources provide a starter list of current and potential partners and resources in the City's endeavor to make visible and experienced change for racial equity in City operations and throughout the community to eventually eradicate the black & white disparities in the St. Petersburg.

Community Partners

+ 2020 Task Force
+ AARP
+ Ad hoc or formal Interfaith Groups
+ Carter G. Woodson Museum
+ Florida Holocaust Museum
+ Foundation for a Healthy St. Petersburg
+ League of Women Voters
+ My Brother's Keeper Alliance
+ National League of Cities: Race, Equity and Leadership (REAL)
+ One Community
+ Pinellas County School Board
+ Pinellas County Urban League

Resources
https://kingcounty.gov/elected/executive/equity-social-justice.aspx
https://www.racialequityinstitute.com/
https://www.nlc.org/corporate-partnership-program/corporate-partners-program
https://www.obama.org/mbka/
https://www.naacp.org/issues/environmental-justice/
http://www.policylink.org/our-work/economy
http://www.policylink.org/our-work/economy/national-equity-atlas
http://www.pisab.org/

Podcast(s):

https://www.sceneonradio.org/seeing-white/;

https://www.livingcities.org/blog/1214-goodreads-   podcasts-we-re-listening-to-on-racial-equity

2.3.6 Future ISAP and Other Engagement

This engagement and equity overview was included in this section of the ISAP to be direct and transparent about the black/white racial inequities in St. Petersburg as well as be transparent about the engagement for this ISAP work. As stated in Chapter 1, the ISAP will be used to forward Sustainability & Resiliency Action not just as a stand-alone plan, but throughout City departments and the community. This is yet another step the City is taking to create structure around the need to address complex issues like the resiliency of the community. Our community is not sustainable nor resilient unless the racial inequities are addressed along with all of the interconnected goal areas discussed in this plan.

Sustainability Action

3

The City of St. Petersburg is committed to creating a city that thrives for future generations by balancing social, economic, and environmental solutions. These solutions will minimize negative impacts to the shared environment, and foster a shared prosperity in a healthy and inclusive community.

The ISAP includes a significant focus on strategies for improving energy efficiency, shifting to clean energy sources, and reducing GHG emissions, essential parts mitigating St. Petersburg's contributions to global climate change and securing its own energy future. The ISAP also evaluates the City's vulnerabilities to changing climate conditions that will occur even if immediate actions are taken to reduce emissions.

A comprehensive and integrated sustainability program must address St. Petersburg's contributions and vulnerabilities to climate change because a sustainable community is also a resilient community. In addition, it must address these issues while also seeking ways to alleviate poverty, provide equitable access to resources, and balance development of housing and infrastructure with environmental stewardship.

Mural by: Artist Chad Mize

3.1 STAR Communities

The City uses the STAR Communities framework for a comprehensive and integrated approach to sustainability and resiliency in St. Petersburg. STAR evaluates community-wide sustainability, encompassing economic, environmental, and social performance measures.

STAR is organized across seven goal areas as outlined in **Table 3.1-1**. This chapter describes targets, objectives and priority actions that support sustainability and resiliency across these categories.

Table 3.1-1 STAR Communities Goal Areas

GOAL AREA	PURPOSE & INTENT
Built Environment	Achieve livability, choice, and access for all where people live, work, and play
Climate & Energy	Reduce climate impacts through adaptation and mitigation efforts and increase resource efficiency
Education, Arts & Community	Empower vibrant, educated, connected, and diverse communities
Economy & Jobs	Create equitably shared prosperity and access to quality jobs
Equity & Empowerment	Ensure equity, inclusion, and access to opportunity for all citizens
Health & Safety	Strengthen communities to be healthy, resilient and safe places for residents and businesses
Natural Systems	Protect and restore the natural resource base upon which life depends

Source: STAR Communities

Figure 3.1-1 City of St. Petersburg STAR Certification Results
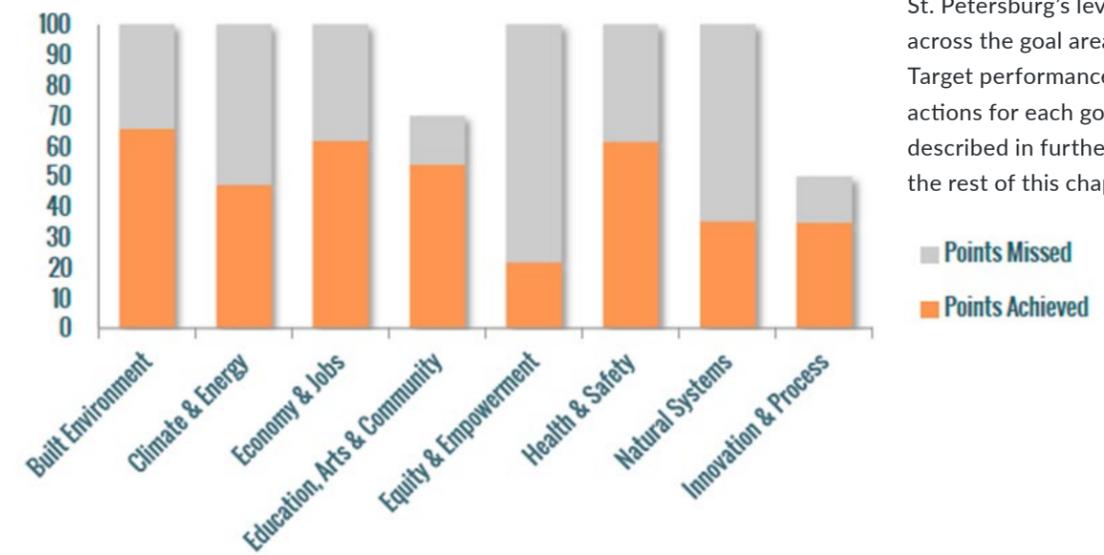
Source: STAR Communities

Figure 3.1-1 provides an overview of St. Petersburg's level of achievement across the goal areas within STAR. Target performance and priority actions for each goal area are described in further detail throughout the rest of this chapter.

The following sections primarily use STAR Communities as a guide for ambitious targets and goals and use findings from outreach, engagement, and research to define priority actions. The sustainability actions, targets and objectives listed in this Highlights Report are more fully described in the *ISAP Technical Report,* and are a subset of the over 500 metrics described in the STAR Communities guidance. Sustainability actions are identified for each goal area in the following sections, along with time-frames, cost levels, leading City department and select partners.

3.2 Built Environment

The built environment, consisting of housing, businesses, and utility and transportation infrastructure, shapes how we navigate through our community each day. It is the structure that defines how and where we live, work, play, and engage with others. How we develop our community and infrastructure has significant impacts to air quality, water resources, energy and climate, health and mobility,

and cost of living. A sustainable built environment emphasizes complete and compact development, affordable and equitable access to housing and transportation, resilient buildings and infrastructure, efficient use of resources, and safe and healthy mobility options.

Table 3.2-1 lists the priority actions associated with the Built Environment.

3.2.1 Targets and Objectives

+ Increased access to transit
+ Increased mileage of sidewalks, particularly on arterial or collector roads, that connect people with destinations
+ Mode split – 60% drive alone maximum[1]

+ Increased percentage of households and businesses with access to transit (within approx. 1/4-mile walk to transit stop/facility)[2]
+ Affordable housing production 5% annually
+ 5% of building stock certified with a green building program
+ Demonstrate 90% or more of existing infrastructure is in good or better condition and increase percentage annually
+ Increase miles of accessible sidewalk by at least 5% by December 2020

1 Mode split (or modal share) refers to the share of different types of transportation used by the public. According to the 2040 Pinellas County Long Range Transportation Plan (Pinellas County Metropolitan Planning Organization, December 2014), 81% of commuters drive alone. A goal of a maximum of 60% driving alone in a private vehicle would mean that an increase in modal share of carpooling, walking, cycling, and public transport would need to occur.
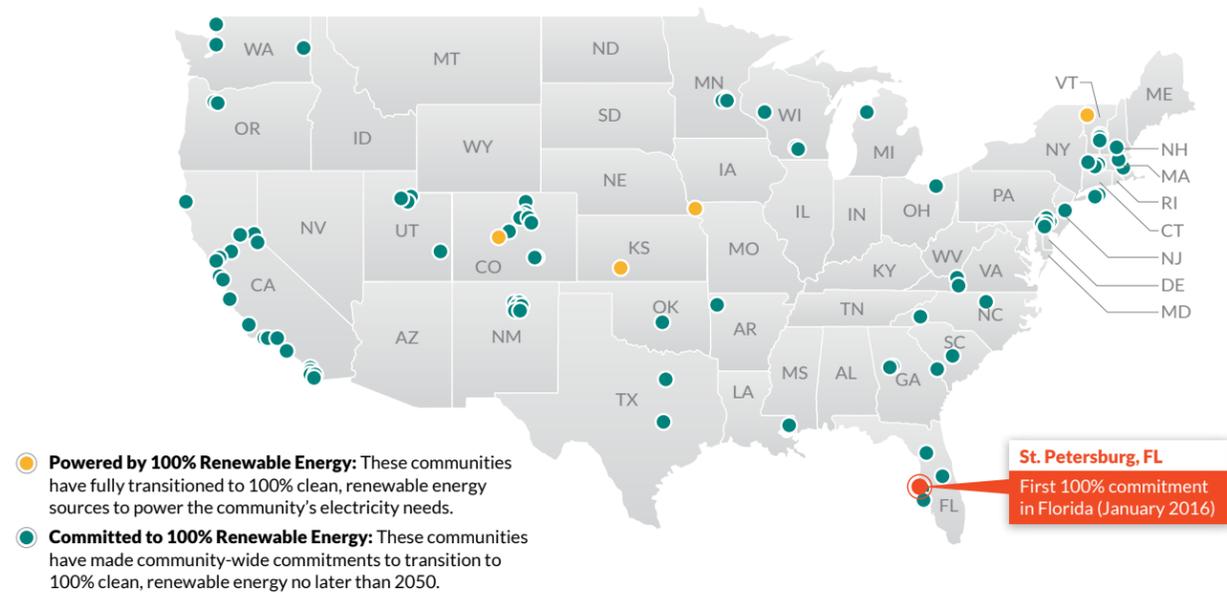
2 The City is currently working with the Pinellas Suncoast Transit Authority (PSTA) on bus transit stop consolidation along several corridors, with a goal of a 1/4-mile walk radius to stops. The City is also evaluating the quality and comfort of walk paths and shelters.

Table 3.2-1 Built Environment Sustainability Actions

Category	Priority Action	Type of Action	Estimated Costs		Implementation Timeframe**
			Capital or Other Upfront Costs	O&M or Other Ongoing Costs	
BUILT ENVIRONMENT					
	Mandate, incentivize, or fund the creation of affordable housing through a unified affordable housing strategy	Policy	$$	$	ON-GOING
	Analyze and develop appropriate strategies for new development adjacent to low-and moderate-income (LMI) neighborhoods	Planning & Analysis	$$	$	SHORT 0-3 YEARS
	Support temporary, creative neighborhood uses for vacant lots	Policy	$	$	SHORT 0-3 YEARS
	Promote the use of Compact and Complete Communities principles for all new development and redevelopment efforts	Policy	$	$	ON-GOING
	Adopt Green Building Standards for Affordable Housing	Policy	$$	$$	SHORT 0-3 YEARS
	Target local infrastructure improvements to underserved and blighted areas; catalyze and track private investment	Infrastructure & Equipment	$$$$$	$$$	MEDIUM 4-6 YEARS
	Increase access to affordable housing with housing assistance, redevelopment loans and micro-loan programs, and multifamily housing programs	Policy	$$$$	$$	MEDIUM 4-6 YEARS

Responsible Department		Strategy Co-Benefits
Lead City Dept.	Select Partners	
Neighborhood Affairs (Supporting: Planning & Development Services)	• The New Deal for St. Pete • One Community Housing Authority	
Planning and Development Services	• South St. Petersburg CRA	
Planning and Development Services (Supporting: Parks & Recreation, Sanitation)	• St. Pete Arts Alliance • Sustainable Urban Agriculture Coalition (SUAC) • OPEN - SEEDS	
Planning and Development Services (Supporting: Transportation and Parking, Parks & Recreation, Economic Development)	• Urban Land Institute (ULI) • Pinellas Suncoast Transit Authority (PSTA) • Forward Pinellas	
Housing and Community Development (Supporting: Planning & Development Services)	• U.S. Green Building Council (USGBC) • Urban Land Institute (ULI) • Housing Authority	
Engineering and Capital Improvements (Supporting: Economic Development, Sustainability & Resiliency, Transportation and Parking Management)	• South St. Petersburg CRA • St. Petersburg Area EDC	
Housing and Community Development (Supporting: Planning and Development Services, Neighborhood Affairs, Urban Affairs)	• South St. Petersburg CRA	

**Implementation timeframe estimated at on-going, short term (0-3 years), medium term (4-6 years) or long term (7+ years) based on workloads and anticipated budget needs.

* LEVEL OF CAPITAL AND O&M COSTS
DETERMINED BY CITY PROCUREMENT PROCESS (Level of spending decision-making)

$ Under $10,000	$$$ $100,000 - $500,000	$$$$$ Over $1 million
$$ $10,000 - $100,000	$$$$ $500,000 - $1 million	

CATEGORY/CO-BENEFITS

- Equity & Empowerment
- Realizing Resilience
- Climate & Energy
- Innovation & Process
- Natural Systems
- Health & Safety
- Economy & Jobs
- Built Environment
- Education, Arts & Community

Figure 3.3-1 Nationwide Clean Energy Commitments

● **Powered by 100% Renewable Energy:** These communities have fully transitioned to 100% clean, renewable energy sources to power the community's electricity needs.

● **Committed to 100% Renewable Energy:** These communities have made community-wide commitments to transition to 100% clean, renewable energy no later than 2050.

Source: Sierra Club, 2017.

St. Petersburg, FL
First 100% commitment in Florida (January 2016)

3.3 Climate & Energy

STAR states that the Climate & Energy goal area strives to "reduce climate impacts through adaptation and mitigation efforts and increase resource efficiency." St. Petersburg aims to cut GHG emissions that contribute to climate change, reduce environmental impacts, and enhance the resiliency of the City to changing climate conditions and disruptions.

In 2016, the City of St. Petersburg became the first city in Florida and the 20th city nationally to commit to 100% clean energy, part of a national trend of clean energy commitments at municipal levels that now have been adopted by more than 70 U.S. cities (**Figure 3.3-1**). As a critical part of the ISAP, the City completed its first ever GHG emissions inventory and developed a "roadmap" for how St. Petersburg will reach its goal of 100% clean energy by 2035 and an 80% GHG emissions reduction by 2050.

United Nations Intergovernmental Panel on Climate Change (IPCC)

In October 2018, the IPCC released an updated report that warns the world has already warmed by 1°C since the middle of the 19th century, and could reach 1.5°C before the middle of this century at the current rate of warming. The report stresses the need to reduce GHG emissions to net zero by 2050 – greater than the 80 percent reduction detailed in the ISAP - to have a reasonable chance of limiting global warming to 1.5°C.

Figure 3.3-2 Per capita GHG Emissions (Metric Tons CO$_2$e)

United States 19.8
Florida 13.5
Global 6.7

Orlando 24.2
Atlanta 20.5
St. Pete 10.9
NYC 5.8
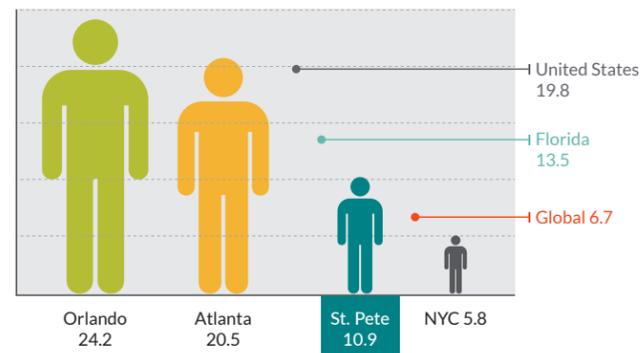
Sources: Global, United States and Florida: WRI, CAIT Climate Data Explorer; City of Orlando (2010); City of Atlanta (2016); New York City (2016); City of St. Petersburg - VHB (2018).

The community accounted for approximately 2.7 million metric tons of CO2e in 2016, while municipal (City of St. Petersburg) operations contributed to just 3 percent, or approximately 87,000 metric tons of CO2e, of the community total. **Figure 3.3-2** shows the estimated GHG per capita in the U.S., St. Petersburg and other major cities. St. Petersburg has a relatively low GHG per capita because of its comparably high density per area. **Figure 3.3-3** provides an overview of pathways for the City to use in reducing GHG emissions by 80% by 2050.

Parallel to development of the ISAP, the City has already been implementing a number of climate and energy solutions. The City is leading by example in upgrading its own facilities for energy and water efficiency and is engaging

in collaborative efforts with local institutions such as the Open Partnership Education Network (OPEN) to develop additional energy strategies. In January 2019, the City passed the Sustainability & Resiliency City Facility Building Ordinance, which further institutionalizes Executive Order 2017-01, Sustainable St. Petersburg, and requires third-party sustainability certification such as Leadership in Energy and Environmental Design (LEED) or Envision for municipal building and infrastructure projects. **Table 3.3-1** lists the priority actions associated with Climate & Energy.
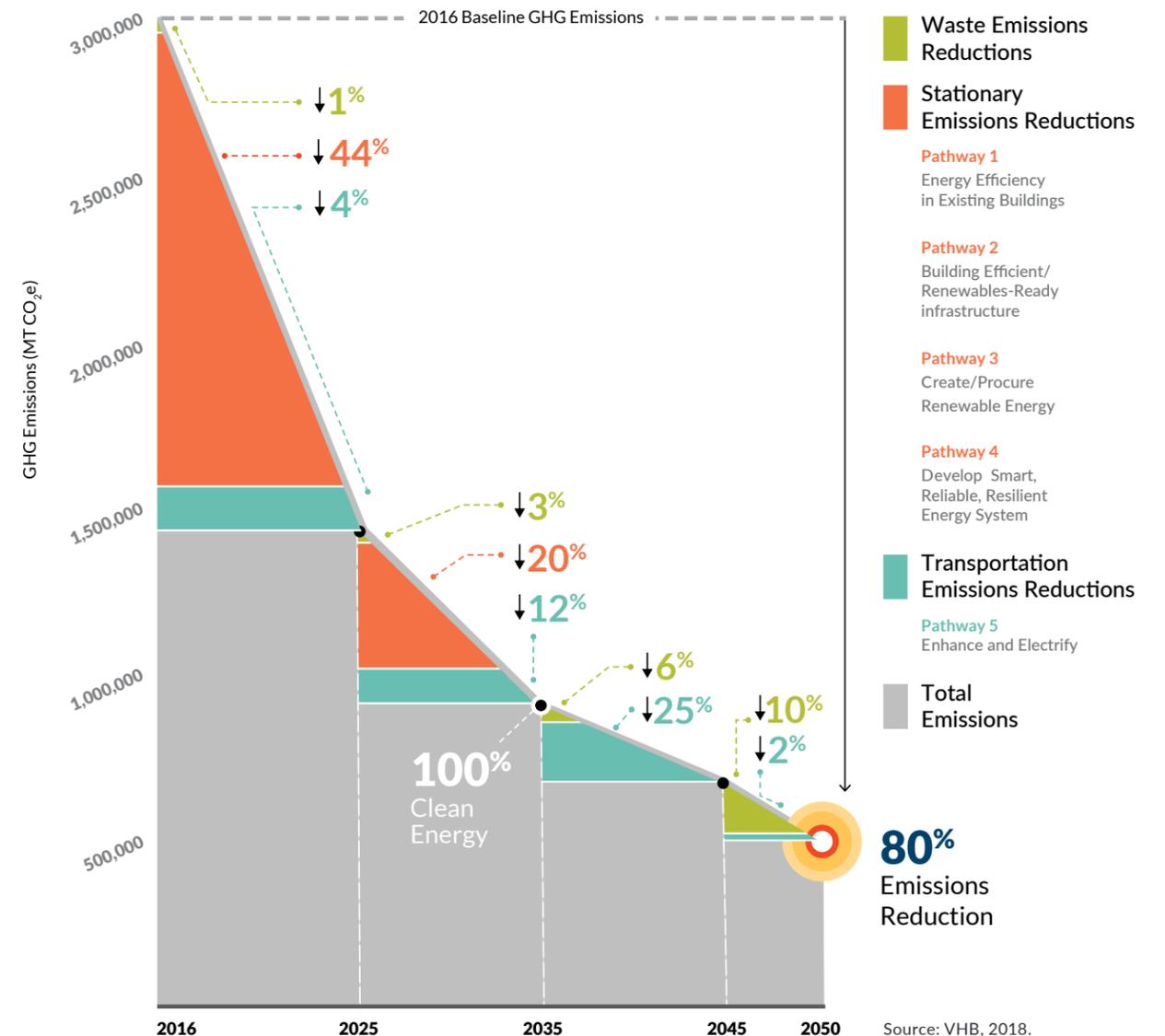
3.3.1 Targets and Objectives

+ 100% Clean Energy by 2035
+ 80% GHG Emission Reduction by 2050

+ 20% GHG emission reduction by December 2020
+ 5% of building stock certified with a green building program3.3-2 What does the City do first?

3.3.2 What does the City do first?

Taking aggressive action for energy reduction in buildings as well as transportation improvements are necessary first steps to reduce GHG emission. The City has done fundamental work described in the *Clean Energy Roadmap*, which is part of the *ISAP Technical Report*, that will now garner assistance from the American Cities Climate Challenge to accelerate this work. Concurrently, the City will work on other actions with co-benefits especially related to energy equity and equity in general.

Figure 3.3-3 Clean Energy Roadmap Summary

2016 Baseline GHG Emissions

Waste Emissions Reductions

Stationary Emissions Reductions

Pathway 1
Energy Efficiency in Existing Buildings

Pathway 2
Building Efficient/ Renewables-Ready infrastructure

Pathway 3
Create/Procure Renewable Energy

Pathway 4
Develop Smart, Reliable, Resilient Energy System

Transportation Emissions Reductions

Pathway 5
Enhance and Electrify

Total Emissions

↓1%
↓44%
↓4%
↓3%
↓20%
↓12%
↓6%
↓25%
↓10%
↓2%

100% Clean Energy

80% Emissions Reduction

GHG Emissions (MT CO$_2$e)

3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000

2016 2025 2035 2045 2050

Source: VHB, 2018.

Table 3.3-1 Climate & Energy Sustainability Actions

Category	Priority Action	Type of Action	Estimated Costs		Implementation Timeframe**	Lead City Dept.	Select Partners	Strategy Co-Benefits
			Capital or Other Upfront Costs	O&M or Other Ongoing Costs				
CLIMATE & ENERGY								
	Implement deep energy retrofits and retro-commissioning of City facilities	Infrastructure & Equipment	$$$$$	$$$	SHORT 0-3 YEARS	Engineering and Capital Improvements (Supporting: OSR)	• USF Clean Energy Research Center • Duke Energy	
	Implement a private sector building challenge	Collaboration	$$	$	SHORT 0-3 YEARS	Sustainability & Resiliency (Supporting: Eco-Dev, CDA)	• St. Petersburg Chamber of Commerce	
	Influence an inclusive, accessible, and transparent utility planning process	Planning & Analysis	$	$	SHORT 0-3 YEARS	Sustainability & Resiliency (Supporting: Mayor, Public Works)	• Duke Energy • Southern Alliance for Clean Energy • FL League of Cities • FL Counties	
	Scale up solar co-op	Policy	$$$	$$	MEDIUM 4-6 YEARS	Sustainability & Resiliency	• Solar United Neighbor of Florida • Solar Energy Loan Fund (SELF) • Duke Energy	
	Duke Energy community solar improvements	Infrastructure & Equipment	$	$$	SHORT 0-3 YEARS	Sustainability & Resiliency (Supporting: Housing Engineering)	• Housing Authority	
	Deploy electric vehicle (EV) infrastructure and establish EV incentives	Infrastructure	$$$$$	$$	SHORT 0-3 YEARS	Transportation and Parking	• Duke Energy • Southern Alliance for Clean Energy	
	Adopt a building energy benchmarking and disclosure policy	Policy	$$$$	$$$	SHORT 0-3 YEARS	Sustainability & Resiliency (Supporting: Engineering)	• Urban Land Institute (ULI) • Builders Association	
	Create a retrofit accelerator program	Policy	$$$	$	MEDIUM 4-6 YEARS	Sustainability & Resiliency (Supporting: Engineering)	• Urban Land Institute (ULI) • Builders Association	
	Establish Property Assessed Clean Energy (PACE)	Funding	$$	$$	SHORT 0-3 YEARS	Sustainability & Resiliency (Supporting: Legal)	• Pinellas County	
	Develop a fuel-efficient, "green" municipal fleet	Infrastructure & Equipment	$$$$$	$$	MEDIUM 4-6 YEARS	Fleet Management (Supporting: Sustainability & Resiliency)	• Southern Alliance for Clean Energy • Sierra Club • Major auto manufacturers	
	Introduce building code provisions that support energy improvements, efficiency and EV Readiness	Policy	$$	$$	SHORT 0-3 YEARS	Planning and Development Services	• U.S. Green Building Council (USGBC) • Developers, builders and contractors	
	Collaborate with key business and community stakeholders to establish implementation milestones and progress criteria[1]	Collaboration	$	$	SHORT 0-3 YEARS	Sustainability & Resiliency	• American Cities Climate Challenge Team • Duke Energy • Sierra Club • Southern Alliance for Clean Energy • USF Clean Energy Research Center	

[1]The Clean Energy Roadmap outlines numerous strategies requiring significant collaboration from business, community, utility, and state level stakeholders. As a first step, the City should convene key stakeholders and leverage resources from the American Cities Climate Challenge technical team to set a timeline for completion of key milestones and criteria for satisfactory progress. Criteria for satisfaction should include commitment and progress from Duke Energy Florida in advance of the end of the City's current franchise agreement in 2026, as well as actions that could be taken to establish an independent municipal utility if such progress is not met.

CATEGORY/CO-BENEFITS

Equity & Empowerment | Climate & Energy | Natural Systems | Economy & Jobs
Realizing Resilience | Innovation & Process | Health & Safety | Built Environment | Education, Arts & Community

**Implementation timeframe estimated at on-going, short term (0-3 years), medium term (4-6 years) or long term (7+ years) based on workloads and anticipated budget needs.

*LEVEL OF CAPITAL AND O&M COSTS
DETERMINED BY CITY PROCUREMENT PROCESS (Level of spending decision-making)

$ Under $10,000 $$$ $100,000 - $500,000 $$$$$ Over $1 million
$$ $10,000 - $100,000 $$$$ $500,000 - $1 million

3.4 Economy & Jobs

A critical aspect of St. Petersburg's sustainability commitment, as well as its Grow Smarter strategy, is to create equitable access to quality jobs and to promote a thriving and resilient local economy. This is essential to the City's long-term sustainability and that of its residents and businesses. **Table 3.4-1** lists the priority actions associated with Economy & Jobs.

3.4.1 Targets and Objectives

Business Retention & Development

+ Demonstrate continued increase in number of business establishments over time
+ 20 small businesses per 1,000 residents (5,400 small businesses)

Green Market Development

+ Increase in percentage of third-party certified green building stock
+ Increase in percentage of population employed by green business or within green industry

Local Economy

+ Increase the total funds deposited in locally owned and operated financial institutions over time

Quality Jobs & Living Wages

+ Demonstrate the percentage change between the jurisdiction's employment rate and the national rate is 10% or better and demonstrate the percentage change between the jurisdiction's unemployment rate and the national rate is 10% or better
+ Increase median income over time/80% household incomes meet/exceed living wage standard
+ Total driving cost is 15% or less of the regional typical household income
+ Increase real median household income over time

Targeted Industry Development

+ Targeted sectors provide employment at a range of skill and wage levels so that the entirety of the local workforce has opportunities to build wealth
+ Provide consistent supply of trained talent to local employers and continue to attract the best and brightest workers to St. Petersburg

Workforce Readiness

+ Demonstrate the percentages of employed are proportional to the population in the labor force for each racial/ethnic group and demonstrate unemployment rates are proportional to the population in the civilian labor force for each racial/ethnic group
+ Demonstrate increased involvement of the population in existing workforce development efforts, including One Community planning process, St. Pete Works, and CRA-dle to Career program

The City's CRA-dle to Career program is focused on the following aspects in the South St. Petersburg Community Redevelopment Area (CRA):

• Workforce development and job readiness
• Early childhood education
• Teen and young adult job readiness through summer and after-school internships
• Youth entrepreneurship training

Approximately $650,000 or 43%

of the total CRA funds between 2016 and 2017 was spent on aspects of the CRA-dle to Career program in South St. Petersburg.

Table 3.4-1 Economy & Jobs Sustainability Actions

Category	Priority Action	Type of Action	Estimated Costs		Implementation Timeframe**	Responsible Department		Strategy Co-Benefits
			Capital or Other Upfront Costs	O&M or Other Ongoing Costs		Lead City Dept.	Select Partners	
ECONOMY & JOBS								
	Create substantial business recognition, promotion, and development program	Policy	$$$	$$	ON-GOING	Economic and Workforce Development (Supporting: Small Business Liaison)	• St. Petersburg Chamber of Commerce • St. Petersburg Area EDC	
	Enhance business incubation and acceleration capacity in St. Petersburg	Infrastructure & Equipment	$$	$$	ON-GOING	Small Business Liaison (Supporting: Economic and Workforce Development)	• St. Petersburg Chamber of Commerce • St. Petersburg Area EDC • Various district Business Associations	
	Amend economic plans to increase "green" jobs, technology, products, and services	Policy	$$	$$	SHORT 0-3 YEARS	Procurement and Supply Management (Supporting: Economic and Workforce Development)	• St. Petersburg Area EDC • Grow Smarter Strategy	
	Develop a long-term economic localization and promote "buy local" and "bank local" campaigns	Planning & Analysis	$$	$$	SHORT 0-3 YEARS	Procurement and Supply Management (Supporting: Economic Development)	• Keep St. Pete Local • St. Petersburg Chamber of Commerce • Local banks	
	Establish City procurement standards that encourage purchase of local goods and services	Policy	$	$	SHORT 0-3 YEARS	Procurement and Supply Management (Supporting: Sustainability & Resiliency)	• St. Pete Works • Keep St. Pete Local • Greenhouse	
	Provide training and incentives to expand family-friendly workplace policies	Policy	$$$	$$$	ON-GOING	Human Resources	• Police Benevolent Association (PBA) • St. Petersburg Association of Firefighters (IAFF-SPAFF) • Florida Public Services Union (FPSU) / SEIU	
	Support living wage campaigns and enact living wage policies	Policy	$$$	$$$	ON-GOING	Economic and Workforce Development (Supporting: Mayor)	• The New Deal for St. Pete • St. Petersburg Chamber of Commerce • St. Pete Works	
	Participate in labor agreements, community benefit agreements, collective bargaining relationships	Planning & Analysis	$	$	ON-GOING	Human Resources (Supporting: Public Works)	• Police Benevolent Association (PBA) • St. Petersburg Association of Firefighters (IAFF-SPAFF) • Florida Public Services Union (FPSU) / SEIU	
	Implement target business growth actions identified in the Grow Smarter strategy	Planning & Analysis	$	$	ON-GOING	Economic and Workforce Development	• St. Petersburg Area EDC • Grow Smarter Strategy	
	Provide training and support services to the workforce	Infrastructure & Equipment	$$$	$$$	ON-GOING	Economic and Workforce Development	• St. Petersburg College • Pinellas Technical College • Pinellas County Ex-offender Coalition (PERC) • St. Pete Works	

**Implementation timeframe estimated at on-going, short term (0-3 years), medium term (4-6 years) or long term (7+ years) based on workloads and anticipated budget needs.

˙LEVEL OF CAPITAL AND O&M COSTS
DETERMINED BY CITY PROCUREMENT PROCESS (Level of spending decision-making)

$ Under $10,000	$$$ $100,000 - $500,000	$$$$$ Over $1 million
$$ $10,000 - $100,000	$$$$ $500,000 - $1 million	

CATEGORY/CO-BENEFITS

Equity & Empowerment	Natural Systems	Economy & Jobs
Climate & Energy		
Realizing Resilience	Innovation & Process	Built Environment
	Health & Safety	Education, Arts & Community

3.5 Education, Arts & Community

St. Petersburg is well known for its thriving arts and cultural resources. It is one of the assets of the community that attracts residents, businesses, and visitors and supports a sense of community cohesion and identity. Preserving the arts and cultural resource assets of the community while also continuing to enhance education and access to these resources will remain a priority for the City. Additionally, sustainability and resiliency of St. Petersburg is dependent on equitable and accessible education opportunities and attainment. Education across all populations living and working in the City is essential to the long-term viability of its growing and evolving economy and for celebrating the rich social and cultural diversity that St. Petersburg offers. **Table 3.5-1** lists the priority actions associated with Education, Arts & Community.

3.5.1 Targets and Objectives

+ 85% of third grade public school students meet/exceed reading proficiency

+ 85% or above of third grade in the jurisdiction from each race/ethnicity and meet/exceed reading proficiency

+ 90% average 4-year adjusted cohort high school graduation rate from each race/ethnicity, special education, English language learners, and low-income subgroup of students

+ Demonstrate that creative industries represent at least a 5% share of all businesses in county or city

+ Improved access to art for communities of color and low-income communities

+ Increased number and accessibility of outdoor galleries, art sales, and performing arts in public spaces viewable by anyone

+ Incorporation of arts, culture, and equity into foundational planning documents

+ Demonstrate that the community places in the top 25% of the Best Cities for Successful Aging or achieve a Total Index Score of 60 or greater from the Livability Index

+ Demonstrate the following challenges to seniors living independently are less than the national values for:

- Responsibility for grandchildren;
- Disability;
- Unemployment;
- Food Stamp/SNAP benefits;
- Poverty level;
- Housing costs as % of household income; and
- Gross rent as a percentage of household income.

Table 3.5-1 Education, Arts & Community Sustainability Actions

Category	Priority Action	Type of Action	Estimated Costs		Implementation Timeframe**	Lead City Dept.	Select Partners	Strategy Co-Benefits
			Capital or Other Upfront Costs	O&M or Other Ongoing Costs				
EDUCATION, ARTS & COMMUNITY								
	Fund Head Start programs	Funding	$$$$	$$$$	SHORT 0-3 YEARS	Education	• Pinellas County School Board	
	Provide full day kindergarten for low-income students and students with special needs	Funding	$$$$	$$$$	SHORT 0-3 YEARS	Education	• Pinellas County School Board	
	Provide childcare support for student parents	Funding	$$$$	$$$$	ON-GOING	Education	• St. Petersburg College • Pinellas Technical College • USF St. Petersburg	
	Strengthen supplemental support services and alternative educational pathways	Infrastructure & Equipment	$$$	$$$	MEDIUM 4-6 YEARS	Education	• Pinellas County School Board	
	Assess the effectiveness of policies related to diversity	Planning & Analysis	$$	$	ON-GOING	Sustainability & Resiliency (Supporting: Clerk's Office, Mayor, Urban Affairs)	• Foundation for a Healthy St. Petersburg	
	Expand access to the arts among communities of color and low-income populations	Funding	$$	$$	ON-GOING	Cultural Affairs (Supporting: Urban Affairs, Education Director)	• St. Pete Arts Alliance	
	Activate underutilized and affordable artist live-work spaces	Policy	$$$	$$$	MEDIUM 4-6 YEARS	Housing and Community Development (Supporting: Economic Development)	• St. Pete Arts Alliance	
	Adopt a living wage policy for artists	Policy	$$	$$	SHORT 0-3 YEARS	Economic and Workforce Development (Support: Cultural Affairs)	• St. Pete Arts Alliance	
	Expand collaboration among local and regional public, private, and nonprofit organizations	Collaboration	$	$	ON-GOING	Cultural Affairs (Supporting: Urban Affairs)	• St. Pete Arts Alliance • Foundation for a Healthy St. Petersburg	
	Incorporate arts, culture, and equity into foundational planning documents	Planning & Analysis	$$	$	SHORT 0-3 YEARS	Planning and Development Services (Supporting: Cultural Affairs)	• St. Pete Arts Alliance • Preserve the 'Burg	
	Promote the "CRA-dle to Career" Program	Funding	$$$	$$$	SHORT 0-3 YEARS	Urban Affairs (Supporting: Economic Development)	• South St. Petersburg CRA • Academy of Business in Child Care Development (ABCD) • Early Learning Coalition of Pinellas County (ELC)	
	Promote youth job readiness and entrepreneurship	Funding	$$$	$$$	MEDIUM 4-6 YEARS	Economic and Workforce Development Community Services (Supporting: Education Director, Urban Affairs, Neighborhood Affairs, Parks & Recreation)	• Pinellas County School Board • Healthy St. Petersburg • University of Florida - Institute of Food and Agricultural Sciences (IFAS) • Pinellas Technical College • Sustainable Urban Agriculture Coalition (SUAC)	

Responsible Department

**Implementation timeframe estimated at on-going, short term (0-3 years), medium term (4-6 years) or long term (7+ years) based on workloads and anticipated budget needs.

*LEVEL OF CAPITAL AND O&M COSTS
DETERMINED BY CITY PROCUREMENT PROCESS (Level of spending decision-making)

$ Under $10,000
$$ $10,000 - $100,000
$$$ $100,000 - $500,000
$$$$ $500,000 - $1 million
$$$$$ Over $1 million

CATEGORY/CO-BENEFITS

Equity & Empowerment | Climate & Energy | Natural Systems | Economy & Jobs
Realizing Resilience | Innovation & Process | Health & Safety | Built Environment | Education, Arts & Community

3.6 Equity & Empowerment

The targets and priority actions in this section are in furtherance of equity, inclusion, access to resources and opportunities for all residents. The targets and actions focus on civic engagement, human rights, environmental justice, and poverty prevention and alleviation. Human services for St. Petersburg's priority populations including veterans, homeless, children, and families in poverty are also a focus. In Chapter 2 equity is discussed within the context of internal City operations and external community-wide issues that require early and continued investments, and this section briefly highlights measurable targets and select actions from the STAR Communities framework. **Table 3.6-1** lists the priority actions associated with Equity & Empowerment.

3.6.1 Targets and Objectives

+ Hiring of local government leadership and staff positions reflects the gender, racial, and ethnic diversity of the community

+ Local advisory boards reflect the gender, racial, and ethnic diversity of community

+ Demonstrate that an increasing percentage of individuals within each racial, ethnic, and gender subgroup have obtained a high-quality post-secondary educational degree or credential over time

+ Demonstrate equitable access to community facilities, infrastructure, and services

+ 80% of areas earning area median income (AMI) spend < 45% of income on housing and transportation

+ 60% of areas earning 80% of AMI spend <45% of housing and transportation

+ Demonstrate progress toward reducing the number of residents living in poverty by 30% by 2030 from a baseline year not pre-dating 2000

+ Demonstrate a decrease over time in the percent of women, men, children and other subgroups living below poverty line

+ 65% voter turnout/50% non-presidential

+ Employed and unemployed are proportional to the population in the labor force for each racial/ethnic group

+ Income inequality decreasing over time

+ Demonstrate the homeless population within the community receives timely housing services and resources

+ All police and non-police-related civil and human rights complaints investigated and redressed

+ Demonstrate that all child and adult/elderly abuse and neglect complaints have been investigated and redressed in a timely manner

+ Demonstrate timely provision of mental health and substance abuse treatment

Table 3.6-1 Equity & Empowerment Sustainability Actions

Category	Priority Action	Type of Action	Estimated Costs		Implementation Timeframe**	Responsible Department		Strategy Co-Benefits
			Capital or Other Upfront Costs	O&M or Other Ongoing Costs		Lead City Dept.	Select Partners	
EQUITY & EMPOWERMENT								
	Partner with local groups to increase voting and volunteerism	Collaboration	$	$	ON-GOING	Community Services (Supporting: Sustainability & Resiliency)	• League of Women Voters • Sierra Club	
	Collaborate with County agencies to conduct public education campaigns promoting civil and human rights	Policy	$$	$	ON-GOING	Urban Affairs (Supporting: LGBT Liaison; Police LGBT Liaison, Police - Community Intervention)	• American Civil Liberties Union (ACLU) • Pinellas County Office of Human Rights • St. Pete Pride	
	Engage residents and stakeholders in exercises to identify and address environmental justice areas	Planning & Analysis	$$	$	SHORT 0-3 YEARS	Sustainability & Resiliency (Supporting: Economic Development, Urban Affairs)	• South St. Petersburg CRA • The New Deal for St. Pete • St. Petersburg Chamber of Commerce • Foundation for a Healthy St. Petersburg	
	Implement process for continuous racial and social equity improvement	Policy	$$$	$$	SHORT 0-3 YEARS	Urban Affairs (Supporting: Sustainability & Resiliency)	• South St. Petersburg CRA • The New Deal for St. Pete	
	Construct new infrastructure in areas to reduce disparities in access	Infrastructure & Equipment	$$$$$	$$$$$	MEDIUM 4-6 YEARS	Engineering and Capital Improvements (Supporting: Transportation and Parking)	• Forward Pinellas • South St. Petersburg CRA	
	Incorporate environmental justice criteria and priorities into zoning and land use policies	Policy	$	$	SHORT 0-3 YEARS	Planning and Development Services (Supporting: Economic Development, Urban Affairs)	• South St. Petersburg CRA	

**Implementation timeframe estimated at on-going, short term (0-3 years), medium term (4-6 years) or long term (7+ years) based on workloads and anticipated budget needs.

*LEVEL OF CAPITAL AND O&M COSTS
DETERMINED BY CITY PROCUREMENT PROCESS (Level of spending decision-making)

$ Under $10,000	$$$ $100,000 - $500,000	$$$$$ Over $1 million
$$ $10,000 - $100,000	$$$$ $500,000 - $1 million	

CATEGORY/CO-BENEFITS

Equity & Empowerment   Climate & Energy   Natural Systems   Economy & Jobs

Realizing Resilience   Innovation & Process   Health & Safety   Built Environment   Education, Arts & Community

3.7 Health & Safety

Sustainable communities are healthy, resilient, and safe places for all residents and visitors. Many of the strategies discussed throughout other categories of the ISAP overlap with health and safety considerations. Transitioning to cleaner energy sources improves air quality; protection of water resources ensures a health water supply; provision of multiple transportation modes, including active transportation options increases, the health and

well-being of residents; and mitigating impacts of climate change will support reduction of long-term health hazards associated with changing climate conditions. All these efforts need to be carried out with an equity lens that not only minimizes health impacts, but also improves community health conditions and removes existing disparities. **Table 3.7-1** lists the priority actions associated with Health & Safety.

3.7.1 Targets and Objectives

+ Increase the percentage of high school students that are physically active for 60 minutes per day on five or more days and/or increase the percentage of public schools that require some form of physical activity daily, such as physical education classes or recess
+ Demonstrate 20% or less of adults aged 20+ report no leisure time physical activity within the past month
+ Demonstrate that the City is a Top US Performer regarding Length of Life and Quality of Life indicators
+ Demonstrate that the City is a Top US Performer regarding key behaviors that impact health
+ Demonstrate that all indoor air quality (IAQ) problems in schools are resolved in a timely manner
+ Decrease the number of tenant complaints regarding IAQ over time
+ Demonstrate the average number of incidents of school violence is less than 10 per 1,000 students
+ Demonstrate reduction in average violent crime rate over time
+ Community garden within ¼ mile of every citizen

Table 3.7-1 Health & Safety Sustainability Actions

Category	Priority Action	Type of Action	Estimated Costs		Implementation Timeframe**	Lead City Dept.	Select Partners	Strategy Co-Benefits
			Capital or Other Upfront Costs	O&M or Other Ongoing Costs				
HEALTH & SAFETY								
	Implement the City's Health in All Policies approach	Planning & Analysis	$$	$$	MEDIUM 4-6 YEARS	Parks and Recreation (Supporting: Mayor)	• Foundation for a Healthy St. Petersburg	
	Leverage Smart Cities, HiAP, and environmental justice goals to monitor, report on, and improve indoor and outdoor air quality	Infrastructure & Equipment	$$$	$	MEDIUM 4-6 YEARS	Health in all Policies (HiAP) (Supporting: Sustainability & Resiliency, Planning and Development Services)	• Florida Department of Health • Florida Department of Environmental Protection	
	Implement strategies to achieve the goals of the City's Food Systems Working Group and Urban Agriculture program	Policy	$$	$$	ON-GOING	Planning and Development Services (Supporting: Neighborhood Affairs, Sustainability & Resiliency)	• Sustainable Urban Agriculture Coalition (SUAC) • Foundation for a Healthy St. Petersburg • Open Partnership Education Network (OPEN) • Pinellas Technical College • SEEDS	
	Use a performance management system to track local health goals	Planning & Analysis	$$	$	SHORT 0-3 YEARS	Parks and Recreation (Supporting: St. Pete Stats)	• Foundation for a Healthy St. Petersburg	
	Consider expanding policies where allowable that prohibit smoking in public places	Policy	$	$$	SHORT 0-3 YEARS	Health in all Policies (HiAP) (Supporting: Code Enforcement, Planning and Development Services)	• Florida Department of Health	
	Provide incentives to healthful food retailers that locate in underserved areas	Funding	$$	$$	MEDIUM 4-6 YEARS	Economic and Workforce Development (Supporting: Parks and Recreation)	• South St. Petersburg CRA • Foundation for a Healthy St. Petersburg	
	Implement an active living program and provide resources and infrastructure to support it	Infrastructure & Equipment	$$	$$	ON-GOING	Parks and Recreation (Supporting: Healthy St. Petersburg)	• Foundation for a Healthy St. Petersburg • AARP	
	Develop Cradle to Career pathway for food and agriculture with education and entrepreneur emphasis	Planning & Analysis	$$	$	SHORT 0-3 YEARS	Urban Affairs (Supporting: Economic Development, Sustainability & Resiliency)	• Florida Department of Health • University of Florida Institute of Food and Agricultural Sciences (IFAS) • Sustainable Urban Agriculture Coalition (SUAC)	
	Establish youth-led urban farm demonstration project in South St. Pete with education, leadership, and culinary emphasis	Infrastructure & Equipment	$$$	$	SHORT 0-3 YEARS	Urban Affairs (Supporting: Economic Development, Sustainability & Resiliency)	• University of Florida Institute of Food and Agricultural Sciences (IFAS) • Sustainable Urban Agriculture Coalition (SUAC) • South St. Petersburg CRA	

**Implementation timeframe estimated at on-going, short term (0-3 years), medium term (4-6 years) or long term (7+ years) based on workloads and anticipated budget needs.

*LEVEL OF CAPITAL AND O&M COSTS DETERMINED BY CITY PROCUREMENT PROCESS (Level of spending decision-making)

$ Under $10,000
$$ $10,000 - $100,000
$$$ $100,000 - $500,000
$$$$ $500,000 - $1 million
$$$$$ Over $1 million

CATEGORY/CO-BENEFITS

Equity & Empowerment | Climate & Energy | Natural Systems | Economy & Jobs
Realizing Resilience | Innovation & Process | Health & Safety | Built Environment | Education, Arts & Community

Table 3.7-1 Health & Safety Sustainability Actions (cont.)

Category	Priority Action	Type of Action	Estimated Costs		Implementation Timeframe**		Responsible Department		Strategy Co-Benefits
			Capital or Other Upfront Costs	O&M or Other Ongoing Costs			Lead City Dept.	Select Partners	
HEALTH & SAFETY									
	Address food deserts starting with land and grant opportunities	Funding	$$$	$	MEDIUM 4-6 YEARS		Planning and Development Services (Supporting: Economic Development)	• South St. Petersburg CRA	
	Continue to expand urban agriculture opportunities in land development regulations	Policy	$	$	SHORT 0-3 YEARS		Planning and Land Development Services (Supporting: Sustainability & Resiliency)	• Urban Land Institute (ULI)	
	Reduce the rate of violent victimizations at schools	Collaboration	$$	$	MEDIUM 4-6 YEARS		Police Department (Supporting: Urban Affairs, Education and Community Engagement)	• Pinellas County School District	
	Implement Complete Streets program to reduce traffic injuries and fatalities	Infrastructure and Equipment	$$$$$	$$	ON-GOING		Transportation and Parking	• Florida Department of Transportation (FDOT)	

**Implementation timeframe estimated at on-going, short term (0-3 years), medium term (4-6 years) or long term (7+ years) based on workloads and anticipated budget needs.

*LEVEL OF CAPITAL AND O&M COSTS
DETERMINED BY CITY PROCUREMENT PROCESS (Level of spending decision-making)

$ Under $10,000	$$$ $100,000 - $500,000	$$$$$ Over $1 million
$$ $10,000 - $100,000	$$$$ $500,000 - $1 million	

CATEGORY/CO-BENEFITS

- Equity & Empowerment
- Climate & Energy
- Natural Systems
- Economy & Jobs
- Realizing Resilience
- Innovation & Process
- Health & Safety
- Built Environment
- Education, Arts & Community

3.8 Natural Systems

Natural resources, including marine resources, urban agricultural systems (described in the previous section), urban trees, wetlands, and water resources are significant assets to St. Petersburg. Their recreational value attracts visitors to support a thriving tourism economy. Marine and life sciences are also a targeted sector for business attraction and economic growth. And finally, the protection of these resources is essential to maintaining healthy air, water, and protecting residents and businesses from the expected impacts of climate change.

Table 3.8-1 lists the priority actions associated with Natural Systems.

3.8.1 Targets and Objectives

+ Determine city's current green infrastructure acreage and set goal for percentage of land area designated green stormwater infrastructure

+ Demonstrate that 85% of population lives within 1/3 mile of green infrastructure features that provide localized cooling through tree canopy or vegetative surfaces

+ Achieve no net loss of habitat areas for threatened species or increase the connectivity between habitats needed for threatened species

+ Maintain natural resource acreage at 20 acres per 1,000 residents or greater or 11.5% of total land area

+ Achieve no net loss of wetlands, streams, shoreline buffers

+ Restore degraded natural resource areas at a ratio greater than 1% of developed land area in the jurisdiction

+ Achieve attainment or maintenance status for all measured criteria pollutants for outdoor air quality

+ Demonstrate that all non-industrial water bodies are swimmable and fishable during 90% of days in the past year or demonstrate a steady reduction in water closures of at least 2% annually towards achieving 90% of days being swimmable and fishable

+ Demonstrate that green and grey infrastructure investments are planned using a watershed approach prioritizing projects for connectivity, water quality and quantity

+ Demonstrate an increase in the acreage of working lands (backyard, community, rooftop, and school gardens and small farms that distribute or sell food)

Table 3.8-1 Natural Systems Sustainability Actions

Category	Priority Action	Type of Action	Estimated Costs		Implementation Timeframe**	Responsible Department		Strategy Co-Benefits
			Capital or Other Upfront Costs	O&M or Other Ongoing Costs	Lead City Dept.		Select Partners	
NATURAL SYSTEMS								
	Increase ecological literacy	Policy	$$	$	MEDIUM 4-6 YEARS	Sustainability & Resiliency (Supporting: Engineering, Parks & Recreation)	• Sierra Club • Tampa Bay Watch • Tampa Bay Estuary Program • Audubon Society • City Beautiful Commission	
	Develop a community-wide invasive species integrated pest management plan	Planning & Analysis	$$	$$	SHORT 0-3 YEARS	Parks and Recreation (Supporting: Stormwater & Traffic)	• Florida Invasive Species Partnership	
	Develop a community-wide green infrastructure plan that is integrated with all other relevant local plans	Planning & Analysis	$$$	$$	SHORT 0-3 YEARS	Engineering and Capital Improvements (Supporting: Parks & Recreation, Stormwater & Traffic)	• Florida APA • Florida Department of Environmental Protection • American Public Works Association	
	Assess the state of urban forest	Planning & Analysis	$$	$$	SHORT 0-3 YEARS	Sustainability & Resiliency (Parks & Recreation)	• U.S. Forest Service • Florida Urban Forestry Council • City Beautiful Commission	
	Utilize targets and goals set by Tampa Bay Estuary Program (TBEP) for natural resource protection and restoration – seagrass, mangroves, coastal uplands and more	Policy	$	$	SHORT 0-3 YEARS	Sustainability & Resiliency	• Tampa Bay Estuary Program	
	Promote the value of food and product grown locally	Collaboration	$	$	SHORT 0-3 YEARS	Sustainability & Resiliency	• Sustainable Urban Agriculture Coalition (SUAC)	
	Invest in projects that reduce exposure to contaminants and risks associated with environmental justice conditions	Infrastructure	$$$	$$	MEDIUM 4-6 YEARS	Sustainability & Resiliency	• South St. Petersburg CRA	
	Explore potential for Blue Carbon funding resources in support of coastal habitat maintenance and expansion	Planning & Analysis	$	$	SHORT 0-3 YEARS	Sustainability & Resiliency	• Tampa Bay Estuary Program (TBEP)	

**Implementation timeframe estimated at on-going, short term (0-3 years), medium term (4-6 years) or long term (7+ years) based on workloads and anticipated budget needs.

* LEVEL OF CAPITAL AND O&M COSTS
DETERMINED BY CITY PROCUREMENT PROCESS (Level of spending decision-making)

| $ | Under $10,000 | $$$ | $100,000 - $500,000 | $$$$$ | Over $1 million |
| $$ | $10,000 - $100,000 | $$$$ | $500,000 - $1 million | | |

CATEGORY/CO-BENEFITS

Equity & Empowerment   Climate & Energy   Natural Systems   Economy & Jobs

Realizing Resilience   Innovation & Process   Health & Safety   Built Environment   Education, Arts & Community

3.9 Realizing Resilience

As previously mentioned, resiliency is a core component of the ISAP and the City has been engaged in numerous climate resiliency efforts locally and regionally. As part of the ISAP effort, the City developed a *Vulnerability Assessment Summary Report* of various asset categories and operations, which is available in the *ISAP Technical Report*. St. Petersburg cannot be a sustainable city if it is not resilient to the developing impacts of climate change. Similarly, many of the sustainability actions described throughout this ISAP contribute to the resiliency of the community's infrastructure, natural resources, economy, and people. Clean and distributed energy strategies provide for more redundancies and enhanced resilience of the City's energy supply. Clean energy sources also reduce air pollution, which is only further exacerbated by extreme temperatures. Urban trees, vegetation, and other natural resources provide aesthetic and recreational value while also absorbing carbon and helping to manage urban heat island impacts and manage stormwater. Improving mobility and providing equitable access to resources better prepares the community for bouncing back and progressing forward when natural disasters occur. Prioritizing social and racial equity with a strong foundation of education and communication enhances community cohesion, increases the ability to withstand extreme events, and allows communities to come back stronger in their aftermath.

Table 3.9-1 lists the priority actions associated with resilience.

3.9.1 Targets and Objectives

+ Using vulnerability assessment, demonstrate a measurable reduction in vulnerability and/or increase in resiliency to at least three community wide risks and one at-risk population group

+ Current building codes reflect design standards to withstand climate risks

+ Measured reduction in economic risks from climate change hazards (value of protected property, business operational downtime, etc.)

+ Increased percentage of infrastructure/building stock designed for resiliency

Table 3.9-1 Realizing Resilience Sustainability Actions

Category	Priority Action	Type of Action	Estimated Costs		Implementation Timeframe**
			Capital or Other Upfront Costs	O&M or Other Ongoing Costs	
REALIZING RESILIENCE					
	Actively participate as a leader in the newly formed Tampa Bay Regional Resiliency Coalition	Collaboration	$	$	ON-GOING
	Improve facilities and infrastructure throughout the community to prepare for climate change impacts	Infrastructure & Equipment	$$$$$	$$	ON-GOING
	Assess community development strategies with floodplain and coastal high hazard area updates	Planning & Analysis	$	$	SHORT 0-3 YEARS
	Protect and restore coastal ecological resources to enhance coastal resiliency	Infrastructure & Equipment	$$$$	$$$	LONG 7+ YEARS
	Develop and implement a resiliency communication and outreach program	Collaboration	$$	$	SHORT 0-3 YEARS
	Promote existing and develop additional resiliency resources for vulnerable populations	Collaboration	$$	$$	ON-GOING

	Responsible Department		Strategy Co-Benefits
Lead City Dept.		Select Partners	
	Sustainability & Resiliency (Supporting: Planning & Development Services, Engineering)	• Tampa Bay Regional Planning Council	
	Engineering and Capital Improvements (Supporting: Sustainability & Resiliency)	• American Public Works Association • Institute for Sustainable Infrastructure	
	Planning and Development Services (Supporting: Sustainability & Resiliency)	• Urban Land Institute (ULI)	
	Water Resources (Supporting: Parks and Recreation)	• Tampa Bay Estuary Program • Tampa Bay Watch	
	Sustainability & Resiliency (Supporting: Urban Affairs, Economic Development)	• National Flood Insurance Program Community Rating System (CRS)	
	Sustainability & Resiliency (Supporting: Urban Affairs, Economic Development, Parks & Recreation)	• South St. Petersburg CRA • Pinellas County Urban League	

**Implementation timeframe estimated at on-going, short term (0-3 years), medium term (4-6 years) or long term (7+ years) based on workloads and anticipated budget needs.

* LEVEL OF CAPITAL AND O&M COSTS DETERMINED BY CITY PROCUREMENT PROCESS (Level of spending decision-making)

| $ | Under $10,000 | $$$ | $100,000 - $500,000 | $$$$$ | Over $1 million |
| $$ | $10,000 - $100,000 | $$$$ | $500,000 - $1 million | | |

CATEGORY/CO-BENEFITS

Equity & Empowerment • Climate & Energy • Natural Systems • Economy & Jobs

Realizing Resilience • Innovation & Process • Health & Safety • Built Environment • Education, Arts & Community

View of the St. Pete Innovation District (photo courtesy of the St. Pete Innovation District)

3.10 Innovation

STAR Communities recognizes innovative local government practices that accelerate community-scale achievement. These items may not be covered in typical metrics and typically benefit multiple sustainability categories.

This document can not cover all the many innovators and innovations around the city, so this section focuses on, practices that were recognized by STAR Communities in late 2016, the Innovation District, and some other recent innovation highlights.

St. Petersburg's Innovation District (**Figure 3.10-1**) houses some of the education and technology leaders in the community, including University of South Florida St. Petersburg (USFSP), Johns Hopkins All Children's Hospital, and state and federal marine science agencies. Recently the Innovation District was accepted into the US Ignite Smart Gigabit Communities network. The US Ignite Smart Gigabit Communities is a network of cities committed to the goal of accelerating the development, deployment and sharing of smart community and Internet of Things (IoT) applications that also advances the implementation of various sustainability strategies.

St. Petersburg is home to the South's largest marine science center and Florida's largest financial services cluster. The City is also a proud member of St. Pete Works!, a workforce collaborative of community organizations that increases employment across the South St. Pete Community Redevelopment Area (CRA). This is yet another illustration of the city's commitment to people, in addition to traditional infrastructure projects.

3.10.1 What are some steps the City and community partners have taken to drive innovation and accelerate sustainability?

+ St. Pete Works! Workforce collaborative
+ Private sewer line lateral pilot rebate program
+ City pension divestment from fossil fuel investments
+ Parks & Recreation and Police Departments' Juvenile Diversion Program offering second chances with accountability – 94% success rate 2018.
+ Tampa Bay Estuary Program's economic valuation of clean water in the Bay and nitrogen strategies
+ Sierra Club "Ready for 100" program and City commitment to 100% clean energy
+ Innovation District: Smart Gigabit Communities network
+ AARP Caregiver Accelerator Program to integrate technology into helping people age in place including telemedicine and caregiving
+ League of Women Voters & Foundation for a Healthy St. Petersburg's Engage St. Pete – seeks to improve civic engagement and civic health

3.10.2 Innovation - Looking Ahead

The rapid rate of technological and other change is exciting and challenging. Planning for the future of your business and your community must be increasingly flexible and as prepared as possible for near and long-term change. This is not just part of innovation, but part of resiliency and thriving in the face of constant change.

The City is currently applying ISAP principles and preparing for future technology changes in the planning for infrastructure and development to accommodate long-term projects like Tropicana Field redevelopment. The work is part of an initial infrastructure roadmap to drive innovation and incorporate sustainability and resiliency at the earliest stages of redevelopment of the site.

Implementation and Early Actions

4

The City's first ISAP will continue as a dynamic implementation process for a sustainable and resilient St. Petersburg.

4.1 Implementation

4.1.1 Ongoing Measurement and Tracking

Implementation of the ISAP includes prioritizing strategies, periodic review of new potential initiatives, monitoring strategy implementation, and tracking sustainability performance. The first implementation step began during St. Petersburg's STAR Communities certification process and continued during the ISAP effort. The ISAP actions identified in Chapter 3 are priorities that rose up through analysis and community outreach.

Monitoring strategy implementation will be the responsibility of the lead departments with oversight from OSR. Many strategies take years to fully implement, and OSR staff will monitor the status of progress regularly.

The STAR Communities framework provides a variety of targets and objectives that are listed as appropriate for each strategy. Tracking progress with these targets and objectives (quantitatively where possible) will help the City

to modify strategies as needed and ultimately achieve its overall sustainability and resiliency goals. Regular tracking of progress across all departments will be key not only to STAR Communities recertification, but to government transparency and continual improvement.

4.1.2 Continued Stakeholder Outreach - Build on the ISAP Connections and Communications

As part of the ISAP outreach and engagement efforts, the City identified common themes and groups/organizations whose work focuses on those themes. As a result, ongoing communication has formed between the City's Office of Sustainability and Resiliency (OSR) and groups, businesses and organizations listed in this document and the many more that are too numerous to list. Priority actions can be evaluated based with the community on values, goals, cost, community benefits and more for ongoing and long-term implementation. Continued regional coordination will also be necessary for overall sustainability.

4.1.3 Cross-Departmental Planning, Budgeting, Coordination

As demonstrated by the many co-benefits in the action tables in Chapter 3, continued internal city department coordination for efficient and valuable implementation will occur. ISAP provides guidance for current and future plans and projects. The ISAP work is also summarized to be referenced for coordinating various policies and programs for increased value and efficiencies.
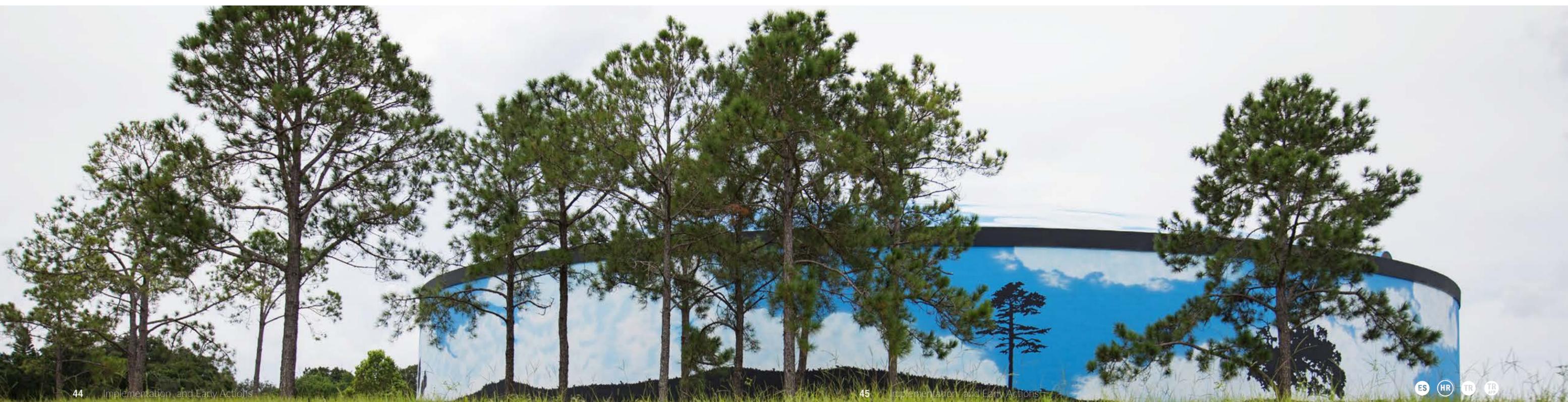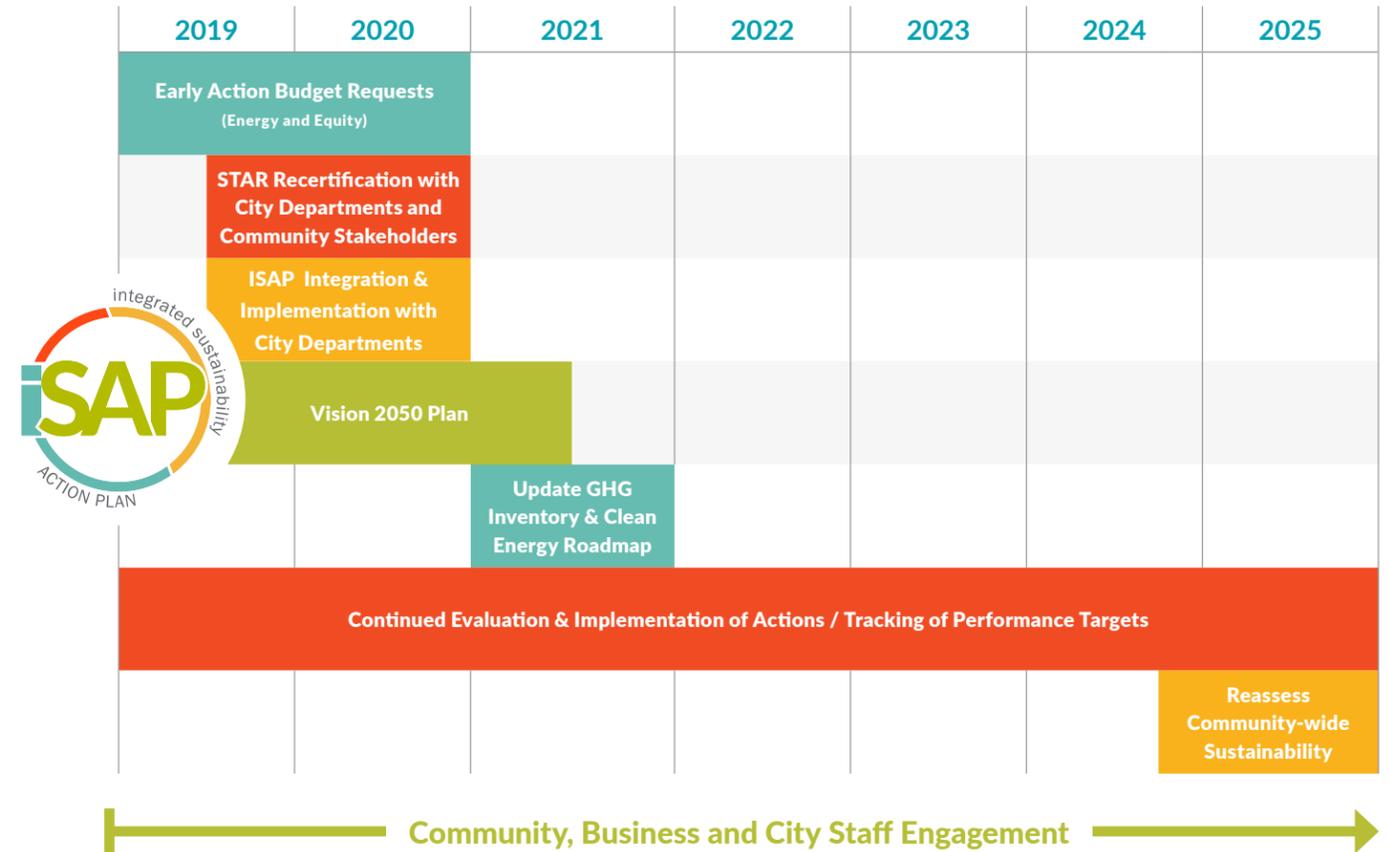
4.1.4 Recommended Updates

In addition to performance measurement and tracking, the following updates are in progress and recommended for future assessment:

+ STAR Communities Recertification 2019
+ GHG Emissions Inventory and Clean Energy Roadmap Update– 2021

+ Consider LEED for Communities (or similar system) – 2025
+ ISAP – 2025-2026 (this may be in a different form as programs separate into their own divisions or processes)

Continued leadership and community support will be necessary for successful ISAP implementation. In addition, continued demonstration of value, community benefit, and cost-savings, where appropriate, is necessary to justify the continued support. The City team is dedicated to this type of leadership and accountability and will continue the work for the future of St. Petersburg and the region. **Figure 4.1-1** shows the major next steps after completion of the ISAP through 2025.

Figure 4.1-1 Implementation and Early Action Timeframe

2019	2020	2021	2022	2023	2024	2025
Early Action Budget Requests (Energy and Equity)						
	STAR Recertification with City Departments and Community Stakeholders					
	ISAP Integration & Implementation with City Departments					
	Vision 2050 Plan					
		Update GHG Inventory & Clean Energy Roadmap				
Continued Evaluation & Implementation of Actions / Tracking of Performance Targets						
						Reassess Community-wide Sustainability

Community, Business and City Staff Engagement

4.2 Early Actions

With City Council and HERS Committee support for STAR Communities baseline certification and the ISAP analysis and engagement efforts, St. Petersburg has laid the foundation of integrating sustainability and resiliency into the City's planning, design and operations. Early actions (2019-2020) for implementation will include:

+ Working the ISAP priorities, actions and budget needs through relevant and responsible City departments focusing on CIP and operational budgets for 3-5 years.

+ Engagement of supporting organizations to implement the strategies identified in Chapter 3.

+ Continued demonstration of regional leadership through sharing of the ISAP process framework with other communities within the Tampa Bay Regional Resiliency Coalition network.

+ Recertification under the STAR Communities rating system, with a goal of achieving the highest (5-star) status.

+ Using the technical assistance award provided by the Bloomberg Philanthropies to implement some of the GHG emission reduction strategies.

+ Building on existing performance tracking tools to measure progress on equity, housing, transportation and other topics.

+ Developing accurate and detailed energy data tracking for all City facilities (and to the extent possible, private sector participants) to increase the likelihood of long-term success in energy efficiency and renewable energy implementation. Some of that data could be incorporated into the StPeteStat website.

+ Creating a budget request for fiscal year 2020 to advance early action energy, equity, and resiliency projects that may include:

  • Building energy retrofits and establishment of revolving fund ($5 million)

  • Equity and empowerment initiatives ($250,000)

  • Enhanced financial support for early education, child care, and arts & education co-benefit actions ($250,000)

  • Resiliency initiatives ($500,000)

    • System-wide submetering of municipal solar facilities

    • Public outreach and engagement to vulnerable populations

    • Green infrastructure

On January 3, 2019, Bloomberg Philanthropies announced St. Petersburg as one of 25 winners in the American Cities Climate Challenge (ACCC). Mayor Rick Kriseman was joined by Michael Bloomberg to make the announcement at Albert Whitted Park. As one of the ACCC winners, St. Petersburg is accepted into a two-year acceleration program with powerful new resources and access to cutting-edge support to help the City meet – or beat – our goal to reduce the City's GHG emissions 20% by December 2020.