

PRIORITY 2: ADAPTATION/SEA LEVEL RISE

MITIGATE SHORT-TERM FLOODING AND ESTABLISH A LONG-TERM ADAPTATION PLAN

GOAL 1: CAPACITY AND RESOURCE MOBILIZATION

Increase staffing to the level required in order to develop and implement short-term actions.

	Actions	Time Frame	Person(s)/Departments Responsible	Funding Notes
1.	Build a Resiliency Team : Hire employees to for necessary positions to support the City's efforts on resiliency.	Determine by Fall of 2023 Energy Assistant by Winter 2021	City Manager, Sustainability Coordinator, Director of Engineering	Salaries would depend on the positions
2.	 Adaptation Fund and Funding: a) Create Adaptation Fund with the purpose of annual budgeting. b) Identify and task appropriate lobbyists to navigate Federal Funding and liaise with the County to explore and advocate for funding streams. Examples include a sales sax, county-wide resilience fees, and municipal service benefit units. 	Begin Fall 2021, ongoing	City Manager, Sustainability Coordinator	\$24K per year for a consultant for funding (20 hrs. per month @ \$100 per hour)
3.	Communication and Transparency: Increase communications to and with residents and the business community through more website presence and through the City's communication channels (See <i>Key West Forward's</i> External Communication Plan)	Begin Fall of 2021, ongoing	Strategic Planning Consultant, PIO Sustainability Coordinator	No funding required



GOAL 2: SHORT TERM CRITICAL PROJECTS AND PLANS

Implement critical projects to mitigate storm and tidal flooding.

Actions	Time Frame	Person(s)/Departments Responsible	Funding Notes
1. Critical Infrastructure Projects: Identify and complete 3 -10 years	Varies,	a) Adaptation	See agenda updates
of the most urgent projects on the island as they relate to:	see	Planning Team	
a) sea level rise	separate	b) Utilities	
b) stormwater	list for all	c) Engineering	
c) floodproofing of structures	projects	d) Engineering	
d) wind hardening of structures			
2. Protect Water Supply: Prevent an increase in salinity and keep			Lobbyist time
water costs low by:	ongoing	Team	
a) Continuing to support FKAA legislatively in legal battles with			
Turkey Point remediation plans and consent orders.			
b) Implementing the Water Supply Plan to reduce water consumption;			
c) Increase the number of cisterns in new building initiatives			
d) Conduct a cost-benefit analysis of utilizing reclaimed water			
3. Non-Infrastructure Measures: Identify other low-cost, low	Begin in	Sustainability	Funding is contingent on
maintenance temporary measures for flood mitigation, such as:	Fall 2023	Coordinator, the	decisions
Geo-tubing; sandbags; grants for wet floodproofing and dry		Adaptation Planning	
floodproofing homes and structures; aqua dams; water-inflated		Team, SAB	
flood barriers, demountable flood barriers, etc.			



GOAL 3: LONG TERM ADAPTATION PLAN

Establish a long-range plan that is monitored and adjusted on a continuous basis to promote the longevity of the island and its inhabitants.

	Actions	Time Frame	Person(s)/Departments Responsible	Funding Notes
1.	Vulnerability Assessment: Utilize existing models from NOAA, the	Begin Winter	Engineering, Planning,	\$150K
	Florida Department of Environmental Protection and the Florida	2022	Adaptation Planning	(\$130K for
	Coastal Management Program to measure the impact of sea level		Team	assessment, and
	rise, identify the people, infrastructure and land uses that may be			\$20K for LiDAR)
	affected. Include utilization of LiDAR data.			grant
				pending
2.	Long Term Adaptation Strategy and Implementation Plan: Using	Begin	Engineering, Adaptation	Chapter 1: \$70K
	information from the vulnerability assessment, engage in a "deeper	Chapter 2 -	Planning Team,	unfunded (seeking
	dive" into key issues that are impacted by climate change. Focus on	Fall 2021	Planning, HARC	a grant)
	a singular issue or "chapter" per year with a 10-year budget and			
	scope for each one. (E.g., Infrastructure & Roads; Historic and	Chapter - Fall		
	Cultural Preservation; Power & Water; Housing; Economic	2022		Chapter 2: \$75K
	Development, Environmental Restoration and Health & Equity).			fully funded
	Strategies include: protect, accommodate, avoid, and retreat.			
-	er 1: Infrastructure & Roads (Includes LiDAR Data of Roads) er 2: Historic and Cultural Preservation			

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¹ The NOAA Model/Florida Adaptation Planning Guidebook describes a comprehensive, integrative, long-term adaptation strategy and implementation plan in which all issues (infrastructure, roads, power & water, housing, Etc.) are symbiotic. The plan described was designed to accommodate the capacity constraints within the City of Key West, (E.g., a lack of staffing dedicated to adaptation and SLR.) If the Commission were willing to increase capacity with additional staff, it would be feasible to manage a comprehensive plan, see it through, and direct major funding opportunities. This would be a more effective and impactful approach.



GOAL 4: PARTNERSHIPS AND LINKAGES TO OTHER PLANS

Integrate SLR into all relevant long-term plans within the city, and coordinate with other coastal cities in and beyond Florida.

	Actions	Time Frame	Person(s)/Departments Responsible	Funding Notes
1.	Implementation Plan for Post Disaster Recovery and Reconstruction (PDRRP): Begin execution of the plan in the 9 goal areas	Fall, 2021	Sustainability Coordinator	As per the plan
2.	Integrate SLR into long range plans: Including the 10-year Stormwater Master Plan, Transportation Plan, Water Supply Plan, Pavement Management Plan and Energy Plan.	Fall 2021, ongoing	Sustainability Coordinator works with relevant departments to ensure integration	No funding required
a) b) c)	Monroe County ACOE Coastal Storm Mitigation Project: Estimate and follow up to determine in what ways Key West should proceed, and establish a plan for cost share of ACOE recommended projects: Elevation of 2,028 residences Floodproofing of 400 commercial buildings Floodproofing of 7 critical public facilities	2024, ongoing	Sustainability Coordinator, Adaptation Planning Team, Monroe County	a) \$1.003B b) \$145M c) \$5.4M It is expected that some funding for residences and commercial buildings will be raised by property owners
4.	Monroe County GreenKeys! Continue to review recommendations and integrate priorities into adaptation planning	Current, Ongoing	Sustainability Coordinator	No funding required



5.	Key West Representation on Local and Regional Boards: Ensure	Begin Fall	Sustainability	No funding
	that at least one individual from the City staff and/or a	2022,	Coordinator assigns	required
	commissioner or committee member is included on the following	ongoing	individuals with input	
	boards:		from the City Manager	
a)	Monroe County Regional Adaptation Coordination Team			
b)	Monroe County Climate Change Advisory Committee (CCAC)			
c)	Southeast Florida Regional Climate Compact Board			
d)	FKAA Climate Change Group			
e)	Cities for Climate Protection Campaign (ICLEI)			
6.	Military Plans (Navy, Coast Guard and JIATF): Convene with	By Summer	Sustainability	No funding
	military institutions that have a presence in Key West to share	2022	Coordinator, Adaptation	required
	information, understand their long range adaptation strategies and		Planning Team	
	plans, and coordinate to the extent possible with the long-term			
	plan.			
7.	Explore Best Practices and International Policy and Academic		Adaptation Energy	Travel budget
	Forums: Conduct educational exchanges, attend international		Assistant makes	submitted
	forums, and seek guidance from leading experts on municipal		recommendations to	annually
	responses to SLR, particularly in coastal communities (E.g., Miami		Sustainability	
	Beach, Charleston, New Orleans, Galveston, Maldives, The		Coordinator and City	
	Netherlands, Etc.,)		Manager for Adaptation	
			Planning Team Members	
8.	State Plans (FDOT, FDEP and FDEO): Develop relationships and keep	Current,		No funding
	abreast of plans and funding opportunities. Lobby FDOT for stronger	Ongoing		required
	SLR policies.			



GOAL 5: REGULATORY MEASURES – LAND USE, PLANNING AND ZONING

Introduce regulatory changes and new measures to support long term resiliency.

Actions	Time Frame	Person(s)/Departments Responsible	Funding Notes
 Comprehensive Plan Updates: Hire a consultant to create the Evaluation and Appraisal Report (EAR) with strikethrough underline to capture state requirements, new plans and staff recommendations for changes to Comprehensive Plan as they relate to resiliency and adaptation. 	Begin 2022	Consultant as assigned by the Planning Director	\$150K (unfunded (\$50K grant ask)
2. Regulatory Plans for Adaptation: Update ordinances and Land Development Regulations on: 1) Zoning and overlay zoning; 2) building codes & resilient designs; 3) setbacks/buffers; 4) conditional development and exactions; 5) rebuilding restrictions; 6) conservation easements; Etc.	Begin in 2023	Consultant as assigned by the Planning Director	Consultant to make recommendations Approximately \$20K