

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 an Adaptation Team: Hire adequate staff to support the City's efforts on adaptation	Determine by Fall of 2023 Energy Assistant by Winter 2021	City Manager, Sustainability Coordinator, Director of Engineering, Planning Director	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
 Critical Infrastructure Projects: Identify and complete 3 -10 years of the most urgent projects on the island as they relate to: a) sea level rise b) stormwater 	Varies, see separate list for all	a) Adaptation Planning Team b) Utilities c) Engineering	See agenda updates
c) floodproofing of structuresd) wind hardening of structures	projects	d) Engineering	
 2. Protect Water Supply: Prevent an increase in salinity and keep water costs low by: 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 	Current, ongoing	Adaptation Planning Team	Lobbyist time
3. Non-Infrastructure Measures: Identify other low-cost, low maintenance temporary measures for flood mitigation, such as: Geo-tubing; sandbags; grants for wet floodproofing and dry floodproofing homes and structures; aqua dams; water-inflated flood barriers, demountable flood barriers, etc.	Begin in Fall 2023	Sustainability Coordinator, the Adaptation Planning Team, SAB	Funding is contingent on decisions



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
 Vulnerability Assessment: Utilize ex Florida Department of Environment Coastal Management Program to me rise, identify the people, infrastructur affected. Include utilization of LiDAR Long Term Adaptation Strategy and information from the vulnerability a dive" into key issues that are impact a singular issue or "chapter" per yea scope for each one. (E.g., Infrastructur Cultural Preservation; Power & Wat Development, Environmental Restor Strategies include: protect, accommental Chapter 1: Infrastructure & Roads (Include Chapter 2: Historic and Cultural Preservation) 	al Protection and the Florida easure the impact of sea level ire and land uses that may be data. Implementation Plan: ¹ Using ssessment, engage in a "deeper ed by climate change. Focus on r with a 10-year budget and ure & Roads; Historic and er; Housing; Economic ration and Health & Equity). odate, avoid, and retreat.	Begin Winter 2022 Begin Chapter 2 - Fall 2021 Chapter - Fall 2022	Responsible Engineering, Planning, Adaptation Planning Team, Utilities Engineering, Adaptation Planning Team, Planning, HARC, Utilities	\$150K (\$130K for assessment, and \$20K for LiDAR) grant pending Chapter 1: \$70K unfunded (seeking a grant) Chapter 2: \$75K fully funded

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
3. 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	35% = 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 that at least one individual from the City staff and/or a commissioner or committee member is included on the following boards:	Begin Fall 2022, ongoing	Sustainability Coordinator assigns individuals with input from the City Manager	No funding required
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 military institutions that have a presence in Key West to share information, understand their long range adaptation strategies and plans, and coordinate to the extent possible with the long-term plan.	By Summer 2022	Sustainability Coordinator, Adaptation Planning Team	No funding required
7.	Explore Best Practices and International Policy and Academic Forums: Conduct educational exchanges, attend international forums, and seek guidance from leading experts on municipal responses to SLR, particularly in coastal communities (E.g., Miami Beach, Charleston, New Orleans, Galveston, Maldives, The Netherlands, Etc.,)		Adaptation Energy Assistant makes recommendations to Sustainability Coordinator and City Manager for Adaptation Planning Team Members	Travel budget submitted annually
8.	State Plans (FDOT, FDEP and FDEO): Develop relationships and keep abreast of plans and funding opportunities. Lobby FDOT for stronger SLR policies.	Current, Ongoing	-	No funding required



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)
 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