



# The Florida Senate

## Local Funding Initiative Request

### Fiscal Year 2023-2024

LFIR # 2589

1. Project Title

2. Senate Sponsor

3. Date of Request

4. Project/Program Description

The Florida Keys Beach Resiliency Pilot project will identify innovative solutions to coastline beach erosion due to ongoing sea current action and hurricane damage in Key West and Monroe County. The pilot project will research and install natural wave abatement barriers such as mangrove islands,

5. State Agency to receive requested funds

State Agency contacted?

6. Amount of the Nonrecurring Request for Fiscal Year 2023-2024

Type of Funding	Amount
Operations	1,250,000
Fixed Capital Outlay	0
<b>Total State Funds Requested</b>	<b>1,250,000</b>

7. Total Project Cost for Fiscal Year 2023-2024 (including matching funds available for this project)

Type of Funding	Amount	Percentage
Total State Funds Requested (from question #6)	1,250,000	100%
<b>Matching Funds</b>		
Federal	0	0%
State (excluding the amount of this request)	0	0%
Local	0	0%
Other	0	0%
<b>Total Project Costs for Fiscal Year 2023-2024</b>	<b>1,250,000</b>	<b>100%</b>

8. Has this project previously received state funding?

Fiscal Year (yyyy-yy)	Amount		Specific Appropriation #	Vetoed
	Recurring	Nonrecurring		

9. Is future funding likely to be requested?

a. If yes, indicate nonrecurring amount per year.

b. Describe the source of funding that can be used in lieu of state funding.

Federal and FDEP beach resiliency grants

10. Has the entity requesting this project received any federal assistance related to the COVID-19 pandemic?

If yes, indicate the amount of funds received and what the funds were used for.



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### Complete questions 11 and 12 for Fixed Capital Outlay Projects

**11. Status of Construction**

a. What is the current phase of the project?

- Planning    
  Design    
  Construction

b. Is the project "shovel ready" (i.e permitted)?

c. What is the estimated start date of construction?

d. What is the estimated completion date of construction?

**12. List the owners of the facility to receive, directly or indirectly, any fixed capital outlay funding. Include the relationship between the owners of the facility and the entity.**

**13. Details on how the requested state funds will be expended**

Spending Category	Description	Amount
<b>Administrative Costs:</b>		
Executive Director/Project Head Salary and Benefits	Project management support for beach resiliency project	120,000
Other Salary and Benefits		0
Expense/Equipment/Travel/Supplies/Other		0
Consultants/Contracted Services/Study	Marine Coastal engineers for research and permitting details for installing natural mangrove islands and other wave abatement solutions, such as rock and coral clusters.	155,000
<b>Operational Costs: Other</b>		
Salary and Benefits		0
Expense/Equipment/Travel/Supplies/Other	1) Permitting of site through Army Corp of Engineers, DEP, and The City of Key West 2) purchase of marine construction equipment for assessing viability of installing natural barriers	200,000
Consultants/Contracted Services/Study	1) Marine Biologist and coastal engineering team for research of sea bottom, marine life, wave dynamics, coastline erosion and design, permitting, and site selection for installation of natural wave suppression barriers. 3) Planning, design and installation of near shore Mangrove islands and natural hybrid habitats along selected coastline site.	775,000
<b>Fixed Capital Construction/Major Renovation:</b>		
Construction/Renovation/Land/Planning Engineering		0
<b>Total State Funds Requested (must equal total from question #6)</b>		<b>1,250,000</b>

**14. Program Performance**

a. What specific purpose or goal will be achieved by the funds requested?



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The funds will provide for research, permitting and installation of innovative solutions to beach and coastline erosion in the lower Florida keys. The innovative solutions will include the creation of mangrove islands along a 3/4 mile section of the southern coastline of Key West. The coastline area includes public and private properties that have experience significant beach erosion over the last 3 years, exacerbated by Hurricane Ian. The goal is to research and evaluate the potential for natural mangrove near shore islands to reduce coastline erosion in the Keys. If successful, this solution will be tested in other areas throughout the Keys. Mangrove Islands have been shown to be effective natural barriers that reduce beach erosion while creating natural habitat for marine life

**b. What activities and services will be provided to meet the intended purpose of these funds?**

The activities and services provided will include research and assessment of the submerged areas in near shore waters off the pilot project site to determine the applicability of siting mangroves on installed rock beds and then to build a series of small mangrove islands on identified areas along a 3/4 miles section of heavily eroded southern coastline in Key West. The services will include, research, assessment, permitting, construction and planting of mangroves on rock bases in selected areas.

**c. What direct services will be provided to citizens by the appropriation project?**

The goal of the pilot project is to research and evaluate the effectiveness of natural mangrove islands for beach resiliency and beach erosion abatement. If successful, this innovative solution could replace sea walls, beach replacement projects and other beach erosion projects, providing citizens a new strategy for reducing beach erosion throughout the Florida Keys and elsewhere in Florida.

**d. Who is the target population served by this project? How many individuals are expected to be served?**

The target population would initially be the public and private properties situation along the 3/4 miles southern coastline of KW, but the larger outcome is to replicate this innovate mangrove island solution throughout the Keys where appropriate.

**e. What is the expected benefit or outcome of this project? What is the methodology by which this outcome will be measured?**

The expected outcome is the abatement of beach erosion along this 3/4 mile area of southern coastline in KW. The planting of near shore mangrove islands has not been attempted before in Florida. The project will partner with the Nature conservancy, College of the Florida Keys, and City of Key west to measure and assess the reduction of wave action and beach erosion in the selected areas.

**f. What are the suggested penalties that the contracting agency may consider in addition to its standard penalties for failing to meet deliverables or performance measures provided for the contract?**

Return unused funds

**15. Requester Contact Information**

a. First Name  Last Name

b. Organization

c. E-mail Address

d. Phone Number  Ext.

**16. Recipient Contact Information**

a. Organization

b. Municipality and County

c. Organization Type

For Profit Entity



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- Non Profit 501(c)(3)
- Non Profit 501(c)(4)
- Local Entity
- University or College
- Other (please specify) local government

d. **First Name**  **Last Name**

e. **E-mail Address**

f. **Phone Number**

#### 17. Lobbyist Contact Information

a. **Name**

b. **Firm Name**

c. **E-mail Address**

d. **Phone Number**