

Project Name: Proposal 1

Reef Innovations Reef Ball Regional Production Sites

(Reef Ball RPS)

Contact Information *(Include at least one name, phone number, email address, and organization name if applicable):*

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Reef Innovations / Reef Ball Foundation

Project Location *(Include a map, if possible, and the city, county, longitude/latitude, and watershed):*

Florida Sites:

Panama City

Wakulla County

Sarasota

Servicing all 24 counties on the Gulf of Mexico

Sites in region may vary depending on volume of Reef Balls needed.

Mississippi Site

Texas Site

Project Description *(Describe all aspects of the project):*

Restore Act's has created a wide area multi county combination of projects that are: restoring coastal habitat, creating oysters or restoring oysters, creating new snorkeling reefs, improving coastal living shoreline and adding deep water habitats along the coast of the Gulf of Mexico.

Many projects have been proposed to deploy artificial reef modules with various objectives, rather than each community, county or non-profit organization having to work out a purchasing agreement this project would provide local jobs building the Reef Ball modules for deployment.

The Reef Ball Regional Production Site is designed, to create local jobs, and reduce the

overall cost of production and delivery of reef modules thus becoming more cost efficient.

Rather than numerous projects having to handle the purchases of product, they would be allotted a portion of the production from the RPS. If production exceeds the immediate demand, product would be stockpiled for distribution over the next several years.

This project provides employment for 4 to 6 local laborers over 3 to 10 years, and provide a continuous supply of reef modules to be used by the 24 impacted counties in Florida..

Depending on the quantity of product that is needed, state funds from the 5 States could support production at additional Reef Ball Regional Production sites, thus reducing the delivery cost even more.

Reef Innovations has years of experience setting up worldwide remote production sites. Reef Innovations would be responsible for setting up, and the quality control of Reef Ball production site using local labor. Funds drawn from the grant would be the amount of the sales price of the actual number of modules produced during that week.

Reef Innovations would contract from a labor force local workers.

Reef Innovations would set up and manage the production site.

Production - On a typical day reef modules will be produced, sales price of product + any % increase over the base cost of concrete will be the base of payment from the Grant.

Typical day could be *(based on 4/15/2013)*

Units / Day	Product	Price / Unit		payout /day
10	Oyster Ball	\$45		\$450
10	Low Pro	\$75		\$750
10	Min Bay	\$85		\$850
10	Bay Ball	\$100		\$1,000
10	Pallet Ball	\$215		\$215
			Total / day	\$3,265

		1 site	2 sites	3 sites	4sites	5sites
grant payout /week		\$13,060	\$26,120	\$39,180	\$52,240	\$65,300
50 weeks		\$653,000	\$1,306,000	\$1,959,000	\$2,612,000	\$3,265,000
3 years		\$1,959,000	\$3,918,000	\$5,877,000	\$7,836,000	\$9,795,000
10 years		\$6,530,000	\$13,060,000	\$19,590,000	\$26,120,000	\$32,650,000

Estimated Project Costs *(Describe the estimated costs of the project, including any assumptions for contingency and ongoing operations/maintenance. Identify other secured funding sources such as matching funds, in-kind contributions or state/federal dollars. In addition, if possible, complete and submit the Cost Appendix Sheet associated with this Form):*

The cost of the project is controlled by the quantity and size of Reef Balls produced. And the number of production sites. Ideally all the projects using reef modules would get their product from the regional site. If they have a proposal a reduction in the overall cost of shipment from Sarasota, Florida would benefit the Restoration Programs with more modules going in the ocean.

Each site would have labor cost of 5 to 6 people. Cost of Concrete, mob / demob expense could add to the end production cost. Using the price sheet for the Reef Ball Products FOB Sarasota would give you an estimate of project costs based on the modules produced. There will also be a 2% or equal to inflation, increase in module cost per year.

Provided the Local County or City Government provides the property and water there should be no additional or unexpected expense. If government property is not provided for the site the cost of site rental and water will be a charge against the grant funds.

Other Funding *(Indicate if the project is submitted for any potential funding or if it may be used to leverage additional funding, if so please describe the funding source [e.g. State/Federal Grants]):*

Many times additional funding for Reef Ball Projects comes from NGO's or as in the proposal from Reef Innovations / Reef Ball Foundation the additional funds might come from homeowners.

Technical Feasibility *(Describe the technologies involved and any relevant past experience or proven success with similar projects):*

This is the most feasibly way to provide Reef Ball modules to various areas around the state. By stockpiling the modules for distribution to approved environmental groups, county Artificial Reef, and Breakwater projects this can become an ongoing project lasting many years.

Environmental Benefits *(Describe the nature, magnitude, and timing of any environmental benefits attributable to the project. If possible, describe potential environmental performance measures [e.g. pollutant reduction]. Please address any potential environmental impacts associated with implementing or maintaining the project [e.g. loss of a habitat or conversion of habitat from one type to another during implementation]):*

This job will provide work for local workforce for 4 to 6 direct employees and an experienced foreman from Reef Innovations. The local area will benefit with local concrete and supplies, as well as drivers and all the support around the operation. The community economic benefits will include house rental, grocery stores, restaurants, barge and boat operators, etc.

Economic and Social Benefits *(Describe the economic and social benefits including those related to the project's improved ecosystem services and any estimates on jobs created or preserved):*

Reef Balls are a proven benefit to the environment, in the production of artificial reefs and restoration of habitat. Reef Balls will make the communities a better place to live and help to restore the health of the Gulf of Mexico.

Community Resilience *(Describe if the project assists Florida's ability to anticipate, withstand, or recover from hazards or threats [e.g. hurricane preparedness, establishing living shorelines]):*

Reef Balls used on various projects can help in protecting shoreline, from the effects of storms. Reef Balls are a great way to establish more living shoreline.

Conflicts or Complements to Existing Efforts *(Describe any ongoing activities in the project implementation area, if the project is part of another plan, and why the project does or does not interfere with that work. Please consider how the project may complement existing local, regional, and state efforts/plans/objectives):*

This should be a supplement to the local Artificial Reef Programs. By providing product for deployment in ongoing activities the next 10 years and beyond.

Complies with Federal, State, Local, and Tribal Laws/Regulations *(Describe any concerns or potential conflicts):*

None know

Readiness for Implementation *(Describe if the project has had any design or permitting work started or completed attach permits or design work]. Please address any issues that may delay start or finish of the project):*

Mobilization and production can usually be accomplished within a couple weeks. So we are ready to get started now.

Regularly Reef Innovations set up remote production on sites from Texas to North Carolina. Individual projects with large quantities of reef modules might benefit by arranging for Reef Innovations to provide production at their location.

Public Acceptance *(Describe any known or potential public approval or opposition to the project):*

This concept was presented to Wakulla County Restoration Committee on April 9 supports the concept was approved with hopes they will receive a production site to help the economic recovery of their communities.

Reef Balls have been used and accepted in over 60 countries worldwide, people and fish love them.

Reef Balls have been approved for use in Mangrove Restoration, Coral Reef Restoration, as Breakwaters to restore and protect beach sand and I under dock mitigation projects.

Reef Balls have been the choice for many research projects over the past 20 years.

Additional Information you wish to provide *(Please include any maps, designs, drawings, photos, or background resources that may assist in completely and accurately understanding the project):*



Many photos are available of various Remote production sites by looking up reefinnovations on flickr or visit www.reefinnovations.com and www.reefball.org

Expected Outcome -

1. County and Environmental Organizations deploying @ 10,000 artificial reef modules/year/RPS.
2. The Restore Act funds going into this project would result in the Counties affected by the Deep Horizon Oil Spill, having available at No Cost to them Modules for deployment. The Transportation to and deployment of the modules is the responsibility of the group or organization that permitted the deployment site.
3. This project will produce the modules for the other proposals from Reef Innovations / Reef Foundation and other government projects and Environmental Organization.

Building a Reef Ball –

Uses of Reef Balls

- 1 [Mangrove Restoration](#)
- 2 Oyster Restoration
- 3 Juvenile Fish Habitats
- 4 Near Shore Reefs
- 5 [Breakwaters](#)
- 6 Protection of Barrier Islands
- 7 Wave absorption at marina's
- 8 Deep Water Reefs
- 9 [Eternal Reefs](#)

Cost Appendix Sheet

5 state total costs 5 construction sites.

Cost Item Cost Estimate

Planning \$50,000

Planning Subtotal:

Construction \$3,265,000 in Reef Modules

Construction Subtotal:

Monitoring \$25,000

Monitoring Subtotal:

Project Cost

Subtotal:

TOTAL: 10 years \$33,400,000

Estimated Costs by Year \$3,340,000

Year 1 \$3,340,000 *the yearly volume of balls x unit price = years cost of project range from*

Year 2 \$3,340,000

Year 3 \$3,340,000

Year 4 \$3,340,000

Year 5 \$3,340,000

Year 6 \$3,340,000 project continues for 10 years.

http://www.dep.state.fl.us/deepwaterhorizon/files/Project_Submittal_Form_distributed.pdf