

CONCEPT PAPER DETAILS FOR FOA# DE-FOA-0000410

Transmittal 4


0410-1568: Port of Los Angeles Offshore Wind Power Installation

The City of Los Angeles Harbor (Harbor Department) has taken a key leadership position in the maritime industry by tackling the reduction of greenhouse gasses generated from operations at the Port of Los Angeles (Port). Current estimates predict that the total volume of containerized cargo moving through the Port will increase in the next decade, resulting in an increase in greenhouse gas emissions. The implementation of mitigation measures to reduce these greenhouse gasses will become crucial to combat their contribution to global warming. The Port has already begun to implement a wide range of mitigation measures to reduce these emissions such as installing Alternate Marine Power (AMP), also known as shorepower or cold ironing, at its container and cruise ship berths, assisting with the replacement of locomotives that provide switching services within the Port for less polluting ones, banning older trucks from entering the Port and offering incentives to motor carriers for the purchase of newer ones, and installing photovoltaic (PV) solar power systems (PV Systems) within the Port's boundary. The Harbor Department believes that wind turbines can be another tool it can use to reduce greenhouse gas emissions by providing clean power to the Port. Wind turbines cost less than a comparable PV System and occupy a smaller footprint. Placing them offshore will reduce the likelihood that they interfere with Port operations. Thus, the Harbor Department has initiated the "Port of Los Angeles Offshore Wind Power Installation" project (Project). Together with the URS Corporation and the City of Los Angeles Department of Water & Power, the Harbor Department will install two or three wind turbines with a capacity of 3 to 5 megawatts (MW) each for a total maximum power output of 15-MW. The focus for the Project will be to develop innovative solutions to typical problems associated with offshore wind power installations. The Harbor Department has begun the process of having a Wind Resources Map prepared for the Port to identify the best offshore location for these wind turbines. Once the location is identified, all existing and resulting environmental conditions will be studied and vetted through the appropriate compliance and permitting processes such as the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). Each component in the offshore wind power system will be evaluated to determine if an innovative solution can be applied to a typical problem to create an overall better result. The goal is to accomplish the wind power installation within the term of the Funding Opportunity Announcement while meeting its objective for innovation and national energy security at a reduced cost. Obtaining funding from the United States Department of Energy (DOE) will help the Harbor Department implement this Project and continue utilizing its limited resources to increase economic growth in the region by continuing the expansion of cargo volume through the Port. The hope is that this Project will serve as a viable example and catalyst for future wind power installations in San Pedro Bay and elsewhere along our nation's coastline. For more information, contact Carlos C. Baldenegro, Harbor Department, at (310) 732-3053 or Randy H. Mason, URS Corporation, at (562) 308-2300.

- Topic: Topic Area 2
- Lead Organization: City of Los Angeles Harbor Department
- Organization Type: Government Owned and Operated (GOGO)
- Lead Organization Percent: 50 %
- Effort (1-100):
- Team Members:
- City of Los Angeles Department of Water & Power - Government Owned and Operated (GOGO) (25%)
[Mr. Michael Webster](#)
 111 N. Hope St., Los Angeles, CA 90012
 (213) 367-4945 | Fax not listed
 - URS Corporation - Business > 1000 Employees (25%)
[Mr. Randy Mason](#)
 310 Golden Shore, Ste 100, Long Beach, CA 90802
 (562) 308-2300 | Fax: (562) 256-7905

Funds and Costs:

Phase Number	Federal Share (DOE)	Non-Federal Share	Total Projected Costs	Proposed Cost Share Percentage
4	'4,633,333	'673,333	'4,973,333	53.16 (%)
5	'5,533,333	'893,333	'5,933,333	53.15 (%)
6	'7,833,333	'7,833,333	'15,666,666	83.13 (%)
7	'7,833,333	'7,833,333	'15,666,666	83.13 (%)
8	'7,833,333	'7,833,333	'15,666,666	83.13 (%)

- Proposed Period of Performance (months): 60
- Technical Point of Contact:
- [Mr. Randy Mason](#)
 310 Golden Shore, Ste 100, Long Beach, CA 90802
 (562) 308-2300 | Fax: (562) 256-7905
- Business Point of Contact:
- [Mr. Carlos Baldenegro](#)
 425 S. Palos Verdes St., San Pedro, CA 90731
 (310) 732-3053 | Fax: (310) 519-0178
- Current TRL of the proposed technology (1-9): 8
- Estimate TRL the technology will reach at project end (2-9): 9
- Letter of Intent File:  [04101568_{{Institution}}_LOI \(3/30/2012 8:09 PM ET\)](#)

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