


3-19-13
PUR-8



CITY OF FORT LAUDERDALE
City Commission Agenda Memo
REGULAR MEETING

#13-0424-REVISED

TO: Honorable Mayor & Members of the
Fort Lauderdale City Commission

FROM: Lee Feldman, ICMA-CM, City Manager 

DATE: March 19, 2013

TITLE: REVISED PUR- 8 - Motion to approve the purchase of four vertical axis
wind turbines – Invitation to Bid (ITB) 632-11186 - \$189,980

Recommendation

It is recommended that the City Commission approve the purchase of four (4) vertical axis wind generators from the lowest cost, responsive and responsible bidder, MGP Systems, Inc., d/b/a Alternate Energy Company, in the amount of \$189,980.

Background

The Department of Energy awarded the City of Fort Lauderdale \$2,036,400 in 2009 through the Energy Efficiency and Conservation Block Grant. The goal of this grant was to foster the use of innovative technology that would reduce energy consumption, demonstrate conservation strategies, and reduce operational expenses. The City has allocated a portion of these funds to purchase four (4) vertical axis wind turbines rated at 4 kilowatt (kW). These turbines are capable of producing a combined 36,000 kilowatt hours annually (kWh). This will result in an annual savings of \$4,320. It is important to recognize the non-monetary benefits this project will bring to the community in terms of demonstrating a real world application for renewable energy. The turbines will be co-located with electric vehicle charging stations to show the direct correlation between wind energy and fueling an electric vehicle. The purchase of the turbines does not include installation due to time constraints (grant deadline of June 26, 2013) revolving around the City's EECBG grant from the Department of Energy. Installation of the units will be done by the forthcoming energy performance contractor. The contract will cover a multitude of other projects but will require the energy contractor to be responsible for repair and maintenance of the turbines for the term of the contract. This contractor will be contracted with the City for anywhere from 12-15 years to do monitoring and verification reports.

Several turbine manufacturers were examined through this process with regard to performance, cost, and ultimately meeting the 2012 update to the Florida Building Code Broward edition for wind load (156 miles per hour) rating for monopole structures. A competitive ITB was conducted and four suppliers responded, refer to Exhibit 1 Bid

Tabulation. The apparent low bidder, DirectNu Energy Corporation, submitted a proposal that did not meet the 4kW bid specification rating and was therefore deemed non-responsive.

Staff has not formally specified locations for the turbines; we will enlist public opinion through the City's sustainability advisory board as well as City Commission/Manager's recommendations. At least one will be located at City Hall in either the Orchid lot or to the east of the building. It is recommended to locate one at the beach, at a community center, and other parking lots for maximum exposure. DOE has blessed the decision to hold off on installation until at least the end of this calendar year. In terms of liability, these are installed in very urbanized locales throughout the country. The design provides for a stealth profile and will be approximately 50 feet in the air as to not impede vehicles or pedestrians. The Department of Energy has approved this activity and NEPA has signed off on the environmental review.

Resource Impact

There is a fiscal impact to the City in the amount of \$189,980.

AVAILABLE FUNDING:

FISCAL YEAR	FUND	SUBFUND	FUND NAME	INDEX#	INDEX NAME	SUBJECT #	SUBJECT NAME	AMOUNT
2013	128	01	American Recovery & Reinvest Act Grant	GEECBG09E	Energy Efficiency & Conservation Retrofit	6499	Other Equipment	\$ 189,980.00
							TOTAL	\$189,980.00

Attachment

Exhibit 1 – Bid Tabulation 632-11186

Prepared by: Rick Andrews, Procurement Specialist II
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Acting Department Director: Hardeep Anand, P.E., Public Works