



**Contra
Costa
County**

To: Contra Costa County Fire Protection District Board of Directors
 From: Jeff Carman, Chief, Contra Costa County Fire Protection District
 Date: July 19, 2016

Subject: Update on Districtwide Energy Conservation Assessment

RECOMMENDATION(S):

ACCEPT a report on the integrated energy assessment being performed by Opterra Energy Services, Inc. for Contra Costa County Fire Protection District facilities.

FISCAL IMPACT:

No immediate fiscal impact. This is an update on work conducted and initial findings related to an energy assessment authorized by the Fire Board of Directors on May 10, 2016.

BACKGROUND:

The Contra Costa County Fire Protection District (District) is interested in considering the installation of photovoltaic (solar) systems and other energy saving initiatives aimed at reducing the District's dependency on energy from traditional sources as well as identifying potential energy saving technologies to reduce utility costs.

On May 10, 2016, the Fire Board of Directors authorized the Fire Chief to execute a Program Development Agreement (PDA) with Opterra Energy Services, Inc. (Opterra) for an integrated energy assessment to identify potential energy conservation measures at District

☒ APPROVE

☐ OTHER

☒ RECOMMENDATION OF CNTY
ADMINISTRATOR

☐ RECOMMENDATION OF BOARD
COMMITTEE

Action of Board On: **07/19/2016** ☒ APPROVED AS RECOMMENDED ☐ OTHER

Clerks Notes:

VOTE OF SUPERVISORS

AYE: John Gioia, Director
 Candace Andersen, Director
 Mary N. Piepho, Director
 Karen Mitchoff, Director
 Federal D. Glover, Director

I hereby certify that this is a true and correct copy of an action taken and entered on the minutes of the Board of Supervisors on the date shown.

ATTESTED: July 19, 2016

David Twa, County Administrator and Clerk of the Board of Supervisors

Contact: Lewis Broschard, Deputy
 Fire Chief (925) 941-3501

By: June McHuen, Deputy

cc:

BACKGROUND: (CONT'D)

facilities. Opterra is finalizing their assessment of District facilities and providing an update to the Board regarding their findings and potential recommendations.

The primary purposes of the assessment and the recommendations are to identify energy improvements and operational changes that are recommended to be installed or implemented at the facilities and to provide an engineering and economic basis for the implementation of the energy conservation measures identified in the recommendations. Under the proposed PDA, if Opterra's assessment concludes that the cost of the energy conservation measures will be less than amounts the District would otherwise spend on energy, the District and Opterra would proceed with drafting an energy services contract under Government Code section 4217.12, providing for, among other things, engineering, procurement, installation, construction, and training services in connection with the implementation of the energy conservation measures identified during the assessment and described in the recommendations. The District would return to this Board for consideration and approval of the energy services contract.

The ultimate goal of this assessment is to identify where the District may be able to install solar arrays, either on the roofs of certain facilities or as standalone systems, to reduce the dependency on traditional power from PG&E. In addition, certain other measures including water conservation equipment and techniques will also be explored and implemented where they are determined to be cost effective and in the best interest of conservation. The assessment will also provide recommendations on changes in interior and exterior lighting systems that will reduce power consumption.

CHILDREN'S IMPACT STATEMENT:

No impact.

ATTACHMENTS

Energy Conservation Presentation