

TITLE

	AGENDA NO. MEETING DATE	15.
		September 13, 2016
USBR WATERSMART GRANT AWARD CONSERVATION THROUGH ADVANCE		
E PESOLUTION		

RECOMMENDED ACTION

□ MOTION _____ ⊠ RESOLUTION _

Authorize the acceptance of a grant from the United States Bureau of Reclamation (USBR) under the 2016 WaterSMART® Water and Energy Efficiency Grant Program in the amount of \$1,000,000 to achieve and identify water and energy conservation sayings through Advanced Metering Infrastructure (AMI) technology.

SUMMARY

The USBR WaterSMART[©] Water and Energy Efficiency Grants are intended for projects that demonstrate innovative technologies to promote water and energy conservation. The District proposes to install AMI technology on approximately 3,000 of EBMUD's largest accounts to target customer water and energy conservation, and facilitate District distribution system water loss control efforts.

This project will provide water conservation benefits by identifying both customer and distribution water leaks and water use efficiency by customers. The work for this project supports the District's development of a long-term AMI business and implementation plan. Formal execution of the USBR grant agreement is expected in October 2016.

DISCUSSION

The primary goal of this project is to expand AMI within the service area to read high demand water meters, leak detection devices, and other sensors in real-time. These systems will: a) provide high demand customers with real-time water consumption information available through customized reports, and mobile and webbased applications; b) enable real-time water system data and audits to facilitate water loss control; c) provide EBMUD with real-time notification of potential pipeline leaks through acoustic sensors and pressure monitors; d) provide additional tools to identify water conservation opportunities including leaks, inefficient industrial processes, and excessive irrigation patterns; e) allow our commercial and industrial customers/partners to obtain valuable data they can use to facilitate energy and water conservation projects at their facilities; and f) improve water-energy nexus conservation research through AMI.

Funds Available: FY2017 Budget Code: WSG/CCS		CS/7999/000894
DEPARTMENT SUBMITTING	DEPARTMENT MANAGER or DIRECTOR	APPROVED
Customer & Community Services	Sherri A. Hong	Meleanfer R. Clark General Manager

Contact the Office of the District Secretary with questions about completing or submitting this form.

USBR WaterSMART Grant Award For Water and Energy Conservation Through Advanced Metering Infrastructure
September 13, 2016
Page 3

USBR grant funds will be used to install an AMI collection network, including approximately 3,000 AMI meter upgrades and additional water loss control technology in covered network areas. Installation of the AMI network equipment will take approximately 12-24 months to complete and commence upon approval of the funding agreement. In the interim, installation of AMI meters and acoustic leak detection devices will continue and currently be read through drive-by technology. Large commercial and residential customers will be informed of the program and provided access to the AMI on-line customer interface. Staff will work with these customers to identify and obtain immediate and long-term water savings and, where appropriate, provide customers with weather-based landscape water budgets.

Acceptance of the grant and implementation of the project supports District Strategic Plan Goals including implementation of multiple technologies that improve the efficiency and effectiveness of business processes.

SUSTAINABILITY

Economic

Funds are available for the project in the FY17 Water Conservation Program and Operations and Maintenance Capital Meter Program budgets, and will be included as part of the standard bi-annual budget process for FY18/19. District matching funds in the amount of \$2 million include in-kind staff services and equipment upgrades. The \$1 million grant funding will be used to cover additional expenditures for AMI-related equipment including collectors, servers, software, meter upgrades, acoustic loggers and related-accessories.

Social

Customers participating in this study will receive real-time consumption and conservation data, currently not available to all customers. This study will assist in assessing the benefits of real-time water consumption on both water and energy conservation.

Environmental

Broader project environmental benefits include reduced water and energy use.

ALTERNATIVE

<u>Do not accept the USBR grant.</u> This alternative is not recommended because the project supports key District Strategic Plan and Water Conservation Master Plan goals. The available funding advances the District's AMI initiatives and will provide valuable findings to support longer-term District AMI implementation plan development.

I:\Sec\2016 Board Related Items\Board Packet 2016\091316 Regular Board Meeting\CCS - BD1 USBR AMI Grant Acceptance

Office of General Counsel

RESOLUTION NO.

AUTHORIZING ACCEPTANCE OF A GRANT AWARDED BY THE UNITED STATES BUREAU OF RECLAMATION (USBR) FOR THE PREPARATION OF AN ADVANCED METERING INFRASTRUCTURE (AMI) STUDY

Introduced by Director

; Seconded by Director

WHEREAS, USBR WaterSMART[©] Water and Energy Efficiency Grants (WaterSMART Grants) are for projects that demonstrate innovative technologies to promote water and energy conservation; and

WHEREAS, in January 2016, the East Bay Municipal Utility District (EBMUD) submitted a WaterSMART grant application to USBR seeking funding for an Advanced Metering Infrastructure (AMI) study under which it would install AMI technology on approximately 3,000 of EBMUD's largest accounts to target customer water and energy conservation and facilitate District distribution system water loss control efforts; and

WHEREAS, in June 2016, USBR notified EBMUD that its grant application was selected for funding and that a grant in the amount of one million dollars would be awarded for the AMI study proposed in EBMUD's application; and

WHEREAS, EBMUD has not yet been provided with a final draft of the USBR grant agreement, but anticipates that the agreement would be finalized and executed in October 2016;

NOW, THEREFORE, BE IT RESOLVED that the EBMUD Board of Directors does hereby authorize the General Manager to accept the USBR grant funds for the AMI study and to execute all agreements and other documents required to accept and administer the USBR grant, including any indemnity, defense and hold harmless provisions in such agreements, in a form approved by the General Counsel, and further authorizes the General Manager or his designee(s) to sign and submit all progress reports, reimbursement claims, and requests for disbursements, which may be necessary for the award of grant funds, and any other actions necessary to implement and carry out the AMI study.

ADOPTED this 13th day of September, 2016 by the following vote:

AYES:

NOES:
ABSENT:
ABSTAIN:

President

ATTEST:

Secretary

General Counsel

APPROVED AS TO FORM AND PROCEDURE: