

CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT

February 21, 2017

Agenda Item: 6.2

Subject: Approval of District Matching Funds Increase for the California Energy Commission Electric Program Investment Charge Grant Number PON-14-301 for the Demonstration of High Penetration Renewable Based Microgrids at Las Positas College

Background: On July 3, 2014, the California Energy Commission (CEC) released a competitive solicitation to fund Technology Demonstration and Deployment projects that demonstrated the reliable integration of renewable energy generation, storage technologies and smart microgrid control systems. At the March 17, 2015 Board meeting, the Board approved the expenditure of \$300,000 of Measure B funds to augment the \$1,522,591 in CEC grant funds and \$150,000 match funds from the battery vendor.

Project Description: The Las Positas Microgrid Project will consist of a flow battery coupled with a microgrid control network. The battery will store excess energy generated from LPC's 2.35MW solar arrays during daylight hours and the microgrid network will manage the release of the stored energy during the evening hours. The proposed flow battery vendor entered into receivership and the District has selected a substitute vendor, UniEnergy Technologies (UET), that has been approved by the CEC. UET has agreed to provide the match funds proposed by the prior battery vendor. However, the total cost of UET's system of similar capacity is higher than the prior battery vendor's cost. To maintain the projected annual energy cost savings of \$100,000, the District would need to increase the District match funds by \$200,000.

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| Original Matching Funds Amount | \$300,000 |
| <u>Additional Matching Funds Amount</u> | <u>\$200,000</u> |
| Revised Matching Funds Amount | \$500,000 |

Recommended Action: That the Board of Trustees approves the increased District Matching Funds of \$200,000 to provide the full capacity flow battery system as proposed in the CEC Grant.

Funding Source: Measure B Bond Funds

Submitted: Doug Horner/Date

Approved: Jannett N. Jackson/Date

____ APPROVED

____ DISAPPROVED

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