

CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT

March 17, 2015

Agenda Item: 5.4

Subject: Acceptance of Grant Number PON-14-301 - California Energy Commission Electric Program Investment Charge for the Demonstration of High Penetration Renewable Based Microgrids, 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. The CEC received 40 proposals and the Las Positas Microgrid Automation Project was one of the 10 proposals selected to receive grant funding. The project will be funded with \$1,522,591 in CEC grant funds, \$300,000 in District funds and \$150,000 from the battery vendor.

The Las Positas Microgrid Project will consist of a 250kW flow battery manufactured by Imergy Systems coupled with a GELI 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 projected annual savings is calculated to be \$100,000. An additional economic benefit of this system will be the reduction of utility demand charges for energy use during evening hours. The successful demonstration of this system is critical to the ability to operate a reliable and stable statewide electrical grid as the amount of renewable energy generation increases to 40% and above.

Recommended Action: That the Board of Trustees accepts the proposed grant from the California Energy Commission in the amount of \$1,522,591 and approves the expenditure of \$300,000 of Measure B Funds. It is further recommended that the Board authorize the Vice Chancellor, Business Services, to enter into an agreement with the California Energy Commission on behalf of the District.

Funding Source: Measure B Bond Funds

Submitted: Lorenzo Legaspi/Date

Approved: Jannett N. Jackson/Date

_____ APPROVED

_____ DISAPPROVED

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