



**Contra  
Costa  
County**

To: Board of Supervisors  
From: Brian M. Balbas, Public Works Director/Chief Engineer  
Date: June 18, 2019

Subject: APPROVE and AUTHORIZE the Public Works Director, or designee, to enter into a Subcontract with Lawrence Livermore National Laboratories (WH265H)

**RECOMMENDATION(S):**

APPROVE and AUTHORIZE the Public Works Director, or designee, to execute a contract with Lawrence Livermore National Laboratory (LLNL), effective June 18, 2019, where the County will receive a Department of Energy funded grant in the amount of \$100,000 to contribute data and expertise for the period June 18, 2019 through June 18, 2022, Countywide. (WH265H)

**FISCAL IMPACT:**

100% Federal - Department of Energy. The County will receive \$100,000 over the next three years acting as a Subcontractor to LLNL.

**BACKGROUND:**

Lawrence Livermore National Lab has requested that the Department of Public Works Energy Manager assist in the performance of energy research to improve the way buildings work as an integral part of the electric utility grid. The project, sponsored by the Department of Energy, is known as

☒ APPROVE

☐ OTHER

☒ RECOMMENDATION OF CNTY

☐ RECOMMENDATION OF BOARD

ADMINISTRATOR

COMMITTEE

Action of Board On: **06/18/2019** ☒ APPROVED AS RECOMMENDED ☐ OTHER

Clerks Notes:

**VOTE OF SUPERVISORS**

AYE: John Gioia, District I Supervisor  
Candace Andersen, District II Supervisor  
Diane Burgis, District III Supervisor  
Karen Mitchoff, District IV Supervisor  
Federal D. Glover, District V Supervisor

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: June 18, 2019

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

By: Laura Cassell, Deputy

Contact: Ramesh Kanzaria  
925-957-2480

cc:

### BACKGROUND: (CONT'D)

Capacity Utilization of Building Energy (CUBE) via Multi-Scale Metrics. Other key project participants include PG&E, New York University (NYU), New York State Energy Research and Development Authority (NYSERDA), and the New York Power Authority (NYPA).

The County will be contributing data and expertise over the three year contract period. The required energy usage data is readily available from PG&E. Building load data will be obtained directly from existing Building Management Control Systems. The County Energy Manager will be the primary staff person required to support the project.

Through this work the County will gain a much deeper understanding of the impact and value of distributed energy resources including solar PV, energy storage, electric vehicle chargers, and demand management on the grid. The work is in direct support of the County's DER program plan approved by the BOS on July 10, 2018.

### CONSEQUENCE OF NEGATIVE ACTION:

Without approval to enter into this subcontract with LLNL, the County will lose both a superb opportunity for research and development collaboration with key U.S. energy agencies and additional funding.

### ATTACHMENTS

SOW CCC for Cube 1004 TPH

LLNL Subcontract