

**Memorandum of Understanding
between**

**The Regents of the University of California, as Management and Operating Contractor for
Lawrence Berkeley National Laboratory
and
Building and Construction Authority, Singapore
Concerning Cooperation on Future Energy Efficiency Technology Collaborations**

This Memorandum of Understanding (MOU) is between The Regents of the University of California, manager and operator of the Lawrence Berkeley National Laboratory (LBNL) pursuant to Contract No. DE-AC02-05CH11231, and Building and Construction Authority (BCA), a body corporate established under the Singapore Building and Construction Authority Act (Cap.30A), collectively referred to as "Participants" or separately as "Participant."

1. Objective and Proposed Scope

a. This MOU establishes a framework for proposed cooperation between the Participants to explore collaborative projects in one or more of the following areas:

- i) Simulation and validation of efficient building technologies
- ii) Building Systems Integration
- iii) Thermal Insulated Facades
- iv) Windows, Day-lighting & Lighting Control
- v) Ventilation and Indoor Environment Quality
- vi) Computational Building Simulation Tools
- vii) Building Sensors, Controls & Communications
- viii) High-albedo Material Coatings
- ix) Data Acquisition and Management

b. By mutual consent in writing, the Participants may cooperate in additional or other areas.

2. Exchange of Information

For the mutual benefit of the Participants, the Participants intend to share information with each other to further their knowledge in relation to the areas listed in paragraph 1(a) above. The Participants do not expect to exchange any business-confidential information. If this expectation changes, the Participants plan to enter into a written non-disclosure agreement.

3. Potential Future Collaboration

If the Participants later decide to undertake specific joint projects, they intend to develop written agreements therefor, setting out each Participant's contribution, deliverables, responsibilities, schedule, budgets, and any other items necessary for the efficient and effective achievement of such projects.

4. Designated Representatives

To administer the implementation of this MOU, each Participant designates one principal coordinator through whom all requests and plans of that Participant are to be made. The designated representative for LBNL is the Environmental Energy and Technologies Division's (EETD) Director or designated LBNL principal coordinator. The designated representative for BCA is the Group Director (Research) at the time this MOU is signed or other designee as appointed by the BCA from time to time.

5. General Considerations

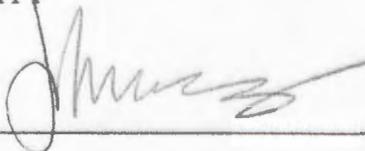
- A. This MOU does not create any legally binding obligations.
- B. Each Participant should conduct the cooperation under this MOU in accordance with all applicable laws, regulations and other requirements to which it is subject, including, without limitation, export control laws and environment, health and safety laws and regulations.
- C. The conduct of cooperative activities contemplated by this MOU is subject to the availability of funding, personnel, and other resources.
- D. Each Participant is responsible for the costs it incurs in participating in cooperative activities under this MOU.

Signed in duplicate.

THE REGENTS OF THE UNIVERSITY
OF CALIFORNIA, LAWRENCE
BERKELEY NATIONAL LABORATORY

BUILDING AND CONSTRUCTION
AUTHORITY

By: 

By: 

Name: Horst Simon

Name: John Keung

Title: Deputy Laboratory Director

Title: Chief Executive Officer

Date: 11/16/2012

Date: 16 Nov 2012