

**Memorandum of Understanding
Between**

**The Regents of the University of California, as Management and Operating Contractor for
Lawrence Berkeley National Laboratory**

and

Guangzhou Institute of Energy Conversion, China Academy of Sciences

Concerning Collaboration in the Fields of Low-carbon Cities and Smart Grid

This Memorandum of Understanding (MOU) is between The Regents of the University of California (The Regents), in its capacity as manager and operator of Lawrence Berkeley National Laboratory (LBNL), and Guangzhou Institute of Energy Conversion, China Academy of Sciences (CAS-GIEC). LBNL is a U.S. Department of Energy (DOE) National Laboratory managed and operated by The Regents pursuant to DOE Contract No. DE-AC02-05CH11231. CAS-GIEC is a research institute under the China Academy of Sciences focused on research and development of new energy and renewable energy. LBNL and CAS-GIEC are collectively herein referred to as the “Participants” or individually as a “Participant.”

1. Objective

The Participants intend to explore potential collaborations in the fields of energy efficiency, modeling, low carbon development research and related capacity building.

2. Proposed Areas of Collaboration

The Participants intend to collaborate in one or more of the following areas:

- A. Research on policies and technologies related to development of low carbon cities
- B. Demand-side resources to facilitate grid integration
- C. Smart grid, renewable energy and distributed energy systems

3. Proposed Forms of Collaboration

The Participants expect to collaborate through mutual visits, the exchange of information, exchanges of researchers and experts, and training and planning for potential future joint research, with any future collaborative research to be undertaken only pursuant to an appropriate written agreement therefor.

4. Proposed Mechanisms of Collaboration

- A. To administer the implementation of this MOU, each Participant should designate one

or more principal coordinators to be in charge of the collaboration, through whom all requests and plans of that Participant should be made.

- B. The principal coordinators may hold meetings when necessary to discuss matters related to collaboration under this MOU.
- C. The principal coordinator for The Regents is Dr. Nan Zhou, or in the alternative Dr. Jingjing Zhang. The principal coordinator for CAS-GIEC is Dr. Daiqing Zhao, or, in the alternative, Dr. Cuiping Liao.

5. Commencement, Modification and Discontinuation

- A. Cooperative activities under this MOU may commence upon signature of the Participants and continue for a five (5) year period, unless discontinued in accordance with Paragraph B of this Section.
- B. The Participants may discontinue this MOU at any time by mutual written consent. Alternatively, a Participant that wishes to discontinue its participation in this MOU should endeavor to provide at least thirty (30) days written notice to the other Participant.
- C. This MOU may be modified or extended for additional periods by mutual written consent of the Participants.

6. Exchange of Information

The Participants do not anticipate the exchange of any business-confidential information. If the Participants decide that a particular activity may lead to the exchange of business-confidential information, they should consult with each other and make appropriate written arrangements for the protection of such information.

7. General Provisions

- A. Each Participant should conduct the activities contemplated by 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, and international agreements to which its Government is party.
- B. This MOU does not create any legally binding obligations between the Participants.
- 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 to be responsible for the costs it incurs in participating in cooperative activities under this MOU.

MOU between The Regents of the University of California and Guangzhou Institute of Energy Conversion,
China Academy of Sciences

Signed in duplicate.

FOR THE REGENTS OF THE
UNIVERSITY OF CALIFORNIA:

FOR GUANGZHOU INSTITUTE OF
ENERGY CONVERSION, CHINA
ACADEMY OF SCIENCES:

By: Michael Witherell

By: Ma Longlong

Name: Michael Witherell

Name: Dr. Longlong Ma

Title: Laboratory Director

Title: Director of CAS-GIEC

Date: 12 May 2016

Date: 2016. 6. 12

Place: Berkeley, CA, USA

Place: Guangzhou, P.R. China