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Memorandum of Understanding

between

The Regents of the University of California

and

The Planning Commission, India

Concerning Collaborations in the Areas of Energy Sector Planning, Policy Analysis, Energy Modeling, and Human Resource Requirements

This Memorandum of Understanding (MOU) is between The Regents of the University of California, in its capacity as the manager and operator of the Lawrence Berkeley National Laboratory (hereinafter referred to as "LBNL"), and the Planning Commission, India. LBNL is a U.S. Department of Energy National Laboratory managed and operated by The Regents of the University of California pursuant to Contract No. DE-AC02-05CH11231 (Contract 31). The Planning Commission, India, is a Government of India entity, having its office at Yojana Bhavan, Sansad Marg. New Delhi -110 001, India (hereinafter referred to as "Planning Commission").

For purposes of this MOU, LBNL and the Planning Commission are collectively herein referred to as "Participants" or separately as "Participant".

The Participants intend to collaborate as follows:

1. Objective

The objective of this MOU is to explore potential future collaboration between the Participants in the field of energy sector planning from various perspectives, including but not limited to providing energy access to all, ensuring affordability, enhancing energy security, and meeting environmental goals.

2. Areas of Planned Cooperation

- i) The Participants express their intention to endeavor to promote information exchanges and joint research and dissemination activities in the following areas:
- a. Energy sector assessment for clean energy deployment;
- b. Policy analysis for assessment of energy sector alternatives:
- c. Energy modeling for Indian energy supply and demand; and
- d. Resource requirements for research and management of the energy sector.

The scope of the above activities and cooperation may be changed or extended to other areas by the mutual written consent of the Participants.

ii) The above activities and cooperation should be developed by:

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a) Exchange of information, mainly data and publications;

b) Visits and exchanges of researchers and experts;

c) Joint workshops and seminars on energy issues that are of common interest to both Participants; and

d) Implementation of future collaborative research, with any such future collaborative research to be undertaken pursuant to an appropriate written agreement therefor.

3. Commencement, Modification and Discontinuation

i) Cooperative activities under this MOU may commence upon its signature by all Participants and continue for a five (5) year period, unless discontinued in accordance with paragraph ii of this Section 3.

ii) The Participants may discontinue this MOU at any time in writing. 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.

iii) This MOU may be modified in writing by mutual consent of the Participants, and may be extended for additional periods.

4. Exchange of Information

i) The Participants do not expect to exchange any information that is considered business-confidential. If this expectation changes, the Participants intend to enter into a written non-disclosure agreement.

ii) The Participants intend that nothing in this MOU should be interpreted to restrict their rights to make public any information or results of their collaboration and cooperation

5. Designated Representatives

i) To administer the implementation of this MOU, each Participant should designate one principal coordinator in charge of the collaboration, through whom all requests and plans of that Participant are to be made.

ii) The designated representatives may hold meetings when necessary to discuss matters

related to cooperation under this MOU.

iii) For purposes of this MOU, the designated representative for UC/LBNL is Ashok Gadgil, the Environmental Energy Technologies Division (EETD) Director, or another designated LBNL principal coordinator. Dr. Jayant Sathaye, Senior Scientist and Strategic Advisor, International Energy Studies Group (IES), and Dr. Amol Phadke, Deputy Leader, International Energy Studies Group (IES), are to assist the EETD Director in this role. The designated representative for the Planning Commission is Anil Kumar Jain, Adviser (Energy), Planning Commission or another designee as may be appointed by the Planning Commission.

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6. General Considerations

- i) 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.
- ii) The conduct of cooperative activities contemplated by this MOU is subject to the availability of funding, personnel, and other resources.
- iii) Each Participant is to be responsible for the costs it incurs in participating in cooperative activities under this MOU.
- iv) This MOU does not create any legally binding obligations.

Signed, in two originals, in the English language.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, LAWRENCE BERKELEY NATIONAL LABORATORY		THE PLANNING COMMISSION OF INDIA	
By:	in The Pierretty Commission, India in	By:	adulla
Name:	Paul Alivisatos	Name:	Ms. Sindhushree Khullar
Title:	Director, Lawrence Berkeley National Laboratory	Title:	Secretary, Planning Commission
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Location:		Location: New Delhi	
Assisted By:		Assisted By:	
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Name:	Jayant Sathaye	Name:	Anil Kumar Jain
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