

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

**Roundtable on Science and Technology for Sustainability
January 30-31, 2018**

National Academy of Sciences
Room 120
2101 Constitution Ave NW
Washington, DC

Workshop Objective: To identify specialized social, economic and engineering challenges to and opportunities for deploying sustainable energy during times of transition.

Tuesday, January 30, 2018

Workshop on Deploying Sustainable Energy during Transition: Implications of Recovery, Renewal, and Rebuilding

- 8:30 am Registration (continental breakfast available outside conference room)
- 9:00 am **Welcome**
David Dzombak (NAE), Carnegie Mellon University, STS Roundtable Co-Chair
Suzette Kimball, The U.S. Geological Survey, STS Roundtable Co-Chair
Vaughan Turekian, The National Academies of Sciences, Engineering, and Medicine
- 9:15 am **Workshop Overview and Objectives**
Suzette Kimball, The U.S. Geological Survey, STS Roundtable Co-Chair
- 9:20 am **A Frame for Recovery, Renewal, and Rebuilding**
Gary Machlis, Clemson University
- 9:50 am **Moderated Discussion**
All participants, with Suzette Kimball, Moderator
- 10:05 am BREAK

Session I: The Role of Sustainable Energy Sources in Post-Disaster Response/Renewal

- 10:20 am Introduction
Marilu Hastings, Cynthia and George Mitchell Foundation
- 10:25 am **Greensburg, Kansas: Incorporating Sustainable Practices into Rebuilding Efforts**
Mayor Bob Dixon, Greensburg, Kansas
- 10:50 am **New York Energy Transition in the Context of Recent Hurricanes**
Rae Zimmerman, New York University
- 11:15 am **Research and Development Needs and Policy Considerations**
Minh Le, Los Angeles County

11:40 am **Moderated Discussion**
All participants, with Marilu Hastings, Moderator

12:10 pm LUNCH

Session II: The Role of Sustainable Energy Sources for Transition Planning: Anticipatory Approach

1:00 pm Introduction
Lynn Scarlett, The Nature Conservancy

1:05 pm **California Energy Transition in the Context of Extreme Weather Events**
Nidhi Thakar, California Public Utilities Commission

1:30 pm **Integrating Scientific and Social Information for Planning Transition**
Clark Miller, Arizona State University

1:55 pm **Social Barriers to Long-Term Redevelopment and Workforce Implications**
Jessica Eckdish, BlueGreen Alliance

2:20 pm **Optimizing Cross-Sector Sustainable Energy Deployment**
Patrick Doherty, Long Haul Capital Group

2:45 pm **Moderated Discussion**
All participants, with Lynn Scarlett, Moderator

3:15 pm BREAK

Session III: Connecting Knowledge to Action: Deploying Sustainable Energy Systems in Transition

3:35 pm Introduction
David Dzombak (NAE), Carnegie Mellon University, STS Roundtable Co-Chair

3:40 pm **Achieving the United Nations Sustainable Development Goals with Important Energy Components**
William Colglazier, American Association for the Advancement of Science

4:00 pm **The Role of Sustainable Energy Sources during Transition/Political Leadership**
Honorable Annise Parker, Rice University and Former Mayor of Houston

4:30 pm **A Path Forward: Next Steps**
All Participants, with David Dzombak (NAE), Moderator

4:55 pm **Wrap Up**
David Dzombak (NAE)/Suzette Kimball, STS Roundtable Co-Chairs

5:00 pm **Adjourn**

5:00 pm **Reception** (NAS West Court)

6:00 pm **Working Dinner** (NAS West Court)
Conversations with Honorable Parker, Rice University and Former Mayor of Houston

Wednesday, January 31, 2018

8:30 am Breakfast available outside conference room

9:00 am **Feedback from Previous Day and Possible Next Steps**
David Dzombak (NAE), Carnegie Mellon University, STS Roundtable Co-Chair
Suzette Kimball, The U.S. Geological Survey, STS Roundtable Co-Chair

Current Activities

9:45 am **Sustainability in the Coastal Plain Urban Centers of the Gulf Coast Region**
(Symposium held at NCSE National Conference on January 23)
Suzette Kimball, U.S. Geological Survey

10:00 am **Housing, Health and Homelessness: Evaluating the Evidence** (Consensus report
expected in 2018)
Michael Dorsey, The National Academies of Sciences, Engineering, and Medicine

10:10 am BREAK

10:30 am **Discussion of Possible Academies Engagement with Future Earth**
Amanda Staudt, The National Academies of Sciences, Engineering, and Medicine

11:15 am **STS Program Updates**
Vaughan Turekian, The National Academies of Sciences, Engineering, and Medicine

12:00 pm **Next Steps**

12:15 pm **Adjourn**