ABOUT THE WORKSHOP

How can we reduce U.S. carbon emissions by 80% or more in 2050? This workshop will explore the challenges and opportunities for deploying and scaling up technologies involved in U.S. deep decarbonization. Speakers will focus on several key sectors such as electricity, transportation, food production, and heavy industry. The discussions will include technology development, deployment, and scale-up; policy drivers, financing, and economics; and societal and political implications. We invite those who are unable to attend in person to watch the event webcast at livestream.com/NASEM. Webcast recordings will be posted online 2-3 weeks after the event. Join the discussion on twitter with #DeepDecarbonization! We are @theNASEM.

DAY 1 - JULY 22, 2019

1:00 pm   Welcome and Workshop Objectives
           K. John Holmes, National Academies’ Board on Energy and Environmental Systems

           Session 1 - Emissions Reduction Targets and Timing

1:05 pm   Modeling Results to Meet Climate Goals
           Moderator: Kelly Sims Gallagher, Tufts University
           Leon Clarke, University of Maryland
           James Williams, University of San Francisco
           Varun Rai, University of Texas

2:20 pm   Break

           Session 2 - Sector Studies of Deploying Decarbonization Technologies at Scale

2:45 pm   Low Carbon Electricity Generation
           Moderator: Eric Larson, Princeton University
           Mark Ahlstrom, NextEra Energy Resources & NextEra Analytics
           Adam Goff, 8 Rivers
           Abe Silverman, New Jersey State Board of Public Utilities

4:00 pm   Corporate Value Chain
           Moderator: Sara Law, CDP North America
           Ashley McKeon, Cargill
           Ashley Allen, Mars Corporation
           Christina Owens, Danone

5:15 pm   Adjourn

5:30 pm   Reception - West Court
8:30 am  Heavy Industry Decarbonization  
Moderator: José Santiesteban, ExxonMobil  
Tahmid Mizan, ExxonMobil  
Adam Rauwerdink, Boston Metal  
Cathy Tway, Johnson Matthey  

9:45 am  Low Carbon Vehicles  
Moderator: Carla Bailo, Center for Automotive Research  
Reinhard Fischer, Volkswagen  
Max Parness, Toyota Motor North America  
Denise Gray, LG Chem  

11:00 am  Break  

Session 3 – Imagine a Future  
11:15 am  The Role of Carbon Dioxide Removal in Deep Decarbonization  
Moderator: Giana Amador, Carbon180  
Jennifer Wilcox, Worcester Polytechnic Institute  
Steve Hamburg, Environmental Defense Fund  

12:15 pm  Lunch  

1:15 pm  Discussion of a Carbon Dioxide Removal Future  

Session 4 – Looking Across Sectors at Societal and Policy Issues  
1:45 pm  Societal Transformation Pathways  
Moderator: Clark Miller, Arizona State University  
Nancy Sutley, LA Department of Water and Power  
Emily Schapira, Philadelphia Energy Authority  
Julia Haggerty, Montana State University  

3:00 pm  Break  

3:15 pm  Policy Drivers  
Moderator: K. John Holmes, National Academies’ Board on Energy & Environmental Systems  
Ryan Costello, Americans for Carbon Dividends  
Michael Gerrard, Columbia University  
Kelly Sims Gallagher, Tufts University  

4:30 pm  Adjourn
ABOUT THE BOARD ON ENERGY AND ENVIRONMENTAL SYSTEMS

The Board on Energy and Environmental Systems (BEES) of the National Academies of Sciences, Engineering, and Medicine provides independent advice to the U.S. government and the private sector on science and technology policy issues related to energy and the environment. Learn more about our work and sign up for our mailing list at nas.edu/bees.

WORKSHOP PLANNING COMMITTEE

Chair: Kelly Sims Gallagher, Tufts University
Ashley Allen, Mars Corporation
Leon Clarke, University of Maryland
Eric D. Larson, Princeton University
Clark A. Miller, Arizona State University
José G. Santiesteban, ExxonMobil