

Developing and Assessing Ideas for Social and Behavioral Research to Speed Efficient and Equitable Industrial Decarbonization: A Workshop

Committee

Susan F. Tierney

Chair

Dr. Tierney is a Senior Advisor at Analysis Group, a 1800-person consulting firm where she is an expert on energy and environmental economics, markets, regulation, and policy, particularly in the electric and gas industries. Previously, she served as the Assistant Secretary for Policy at the U.S. Department of Energy. In Massachusetts, she was the Secretary of Environmental Affairs and Commissioner at the Department of Public Utilities. She has testified before Congress, state and federal regulatory agencies, and federal and state courts, and has authored numerous reports and articles. She earned her Ph.D. and M.A. in regional planning at Cornell University. Dr. Tierney has authored numerous reports and articles, taught at the Department of Urban Studies and Planning at MIT and at the University of California at Irvine, and lectured at major universities. She serves on the boards of many foundations, think tanks and non-governmental organizations, with a common theme associated with energy transitions and decarbonization of the U.S. economy. In addition to chairing NASEM's Board on Energy and Environmental System and serving on NASEM's Climate Crossroads Advisory Council, she has served on numerous NASEM consensus committees (including Accelerating Decarbonization in the U.S. (2021, 2023), and Future of Electric Power (2021)). She previously chaired DOE's Electricity Advisory Committee, served on the Secretary of Energy Advisory Board, and has assisted the North American Energy Standards Board (NAESB) in its Gas-Electric Harmonization Forums. In 2020 was designated as a lifetime National Associate of the National Research Council of the National Academies. She is the recipient of the Lifetime Achievement Award from DOE's Clean Energy Education and Empowerment (C3E) Initiative, and of NARUC's Mary Kilmarx Award for Good Governance, Clean Energy and the Environment.

Sanya R. Carley

Member

Sanya Carley is the Presidential Distinguished Professor of Energy Policy and City Planning at the Stuart Weitzman School of Design, and faculty co-director of the Kleinman Center for Energy Policy at the University of Pennsylvania. She holds a secondary appointment at the Wharton School and is a University Fellow at Resources for the Future. She also co-directs the Energy Justice Lab. Dr. Carley's research focuses on energy justice and just transitions, energy insecurity, electricity and transportation markets, and public perceptions of energy infrastructure and technologies. She is an author of the Fifth National Climate Assessment report and a member of the Innovation Policy Forum and the Roundtable on Macroeconomics and Climate-related Risks and Opportunities, respectively, for the National Academies. Dr. Carley received her Ph.D. in public policy from the University of North Carolina at Chapel Hill, M.S. in urban and regional planning from the University of Wisconsin-Madison, and bachelor's degrees in economics and sustainable development from Swarthmore College.

Emily Grubert

Member

Dr. Emily Grubert is Associate Professor of Sustainable Energy Policy, and, concurrently, of Civil and Environmental Engineering and Earth Sciences at the University of Notre Dame. She previously served as Deputy Assistant Secretary for Carbon Management (2021-2022) and Senior Advisor for Energy Asset Transformation (2022-2023) at the US Department of Energy. Her research focuses on justice-oriented deep decarbonization and decision support tools related to large infrastructure systems, with emphasis on physical and social transition in communities hosting industrial infrastructure. In particular, she is interested in dynamics of deindustrialization, (re)industrialization, environmental justice, and safety. Grubert is a licensed Professional Engineer, a Member of the American Society of Civil Engineers, and an Affiliate Member of the American Sociological Association. Grubert holds a Ph.D. in Environment and Resources from Stanford University, an M.S. in Environmental and Water Resources Engineering and an M.A. in Energy and Earth Resources from The University of Texas at Austin, and a B.S. in Mathematics and Atmosphere/Energy Engineering from Stanford.

Aseem Prakash

Member

Professor Prakash studies environmental policy, climate governance, NGOs and nonprofits, and voluntary/private regulation. He secured B.A. (Hons) in Economics from St. Stephen's College, University of Delhi and MBA from the Indian Institute of Management, Ahmedabad. Then, he worked as a manager in the marketing department of Procter and Gamble, India. After completing a Joint Ph.D. from the Department of Political Science and the School of Public and Environmental Affairs (SPEA), Indiana University, Bloomington, he joined the faculty of the School of Business at The George Washington University. Since 2002, he has served on the faculty of the Department of Political Science at University of Washington, Seattle.

Professor Prakash founded the Environmental Politics and Governance (EPG) network . He is an elected Fellow of the National Academy of Public Administration and and International Research Fellow at the Center for Corporate Reputation, University of Oxford. He has served on the National Academies of Sciences, Engineering, and Medicine's Board on Environmental Change and Society. His recent awards include International Studies Association, Environmental Studies Section's 2023 Distinguished Scholar Award which "recognizes outstanding scholars whose long history of excellent research and teaching has had a substantial impact on fields associated with international relations and environmental issues," the American Political Science Association's 2020 Elinor Ostrom Career Achievement Award in recognition of "lifetime contribution to the study of science, technology, and environmental politics," the International Studies Association's 2019 Distinguished International Political Economy Scholar Award that recognizes "outstanding senior scholars whose influence and path-breaking intellectual work will continue to impact the field for years to come," as well its 2018 James N. Rosenau Award for "scholar who has made the most important contributions to globalization studies" and the European Consortium for Political Research Standing Group on Regulatory Governance's 2018 Regulatory Studies

Udayan Singh

Member

Udayan Singh is an Energy Systems Analyst at the Argonne National Laboratory. His research looks at life-cycle assessment of low-carbon technologies and analyzing decarbonization pathways consistent with net-zero targets. He has served as a Contributing Author to the IPCC Sixth Assessment Report and a data provider to the IPCC Emission Factor Database. His scientific research has been strongly supplemented with outreach efforts; he has received the Royal Society of Chemistry's Inclusion & Diversity Fund Grant and the American Geophysical Union's Sharing Science Grant. Udayan holds a PhD in Civil and Environmental Engineering from the University of Virginia and completed his postdoctoral training at the Northwestern University.

David G. Victor

Member

David Victor is a professor of innovation and public policy at the School of Global Policy and Strategy at UC San Diego. He co-directs the campus-wide Deep Decarbonization Initiative, an effort to understand how quickly the world can eliminate emissions of warming gases. He is adjunct professor in Climate, Atmospheric Science & Physical Oceanography at the Scripps Institution of Oceanography and a professor (by courtesy) in Mechanical and Aerospace Engineering. Prior to joining the faculty at UC San Diego, Victor was a professor at Stanford Law School where he taught energy and environmental law. He has been heavily involved in many different climate- and energy-policy initiatives, including as convening lead author for the Intergovernmental Panel on Climate Change (IPCC), a United Nations-sanctioned international body with 195 country members that won the Nobel Peace Prize in 2007. His Ph.D. is from the Massachusetts Institute of Technology and A.B. from Harvard University.

Elke U. Weber

Member

Elke Weber is a cognitive psychologist and behavioral decision theorist and professor at Princeton University, with appointments in engineering, SPIA, and psychology. Prior appointments were at Columbia University, OSU, U of Chicago, and UIUC. She received her PhD in Behavior and Decision Analysis from Harvard University in 1984, Weber is a pioneer in melding theory and tools from psychology, economics, sociology, political science, philosophy, ecology, and evolutionary biology to understand human decision making in complex situations, in particular responses to the threat posed by climate change. Weber has been documenting psychological and socio-cultural processes within the general public as well as corporations and policy bodies that function to delay the clean energy transition. She has served on various National Academy of Sciences advisory committees on the Human Dimensions of Global Change, on the U.S. Environmental Protection Agency's (EPA) Science Advisory Board, and on a Committee on Carbon Neutrality to the German government. Weber has also been a lead author on the United Nations Intergovernmental Panel on Climate Change (IPCC) Fifth and Sixth Assessment Reports. She is a fellow of the American Academy of Arts and Sciences and a member of both the German National Academy of Sciences Leopoldina and the U.S. National Academy of Sciences. In 2016, she received the Distinguished Achievement Award from the Society for Risk Analysis and in 2023 the Patrick Suppes Prize from the American Philosophical Society.