



**MIT CEEPR**  
Center for Energy and  
Environmental Policy Research

# Fall 2024 Research Workshop

**December 3-4, 2024**  
**Hotel Washington**  
**Washington, DC**

## **BIOGRAPHIES: Speakers and Moderators**

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### **LUKE H. BASSETT**

Senior Advisor for Domestic Climate Policy  
U.S. Department of the Treasury

**Luke H. Bassett** is the Senior Advisor for Domestic Climate Policy in the Climate Hub at the U.S. Department of the Treasury, having recently served as Director of Policy and Program Impact in Treasury's Inflation Reduction Act Program Office. Previously, as a Senior Professional Staff Member on the U.S. Senate Committee on Energy and Natural Resources, he advised Chairman Joe Manchin III (D-WV) on climate, renewable energy, energy tax, and research and development policy. In that role, he drafted or negotiated major provisions of the Energy Act of 2020, the Infrastructure Investment and Jobs Act of 2021, the CHIPS and Science Act of 2022, and the Inflation Reduction Act of 2022.

Prior to joining the Energy Committee, Bassett was Associate Director of Domestic Energy and Environment Policy at the Center for American Progress and previously served as an appointee at the U.S. Department of Energy in the Office of Energy Policy and Systems Analysis and the Office of Energy Efficiency and Renewable Energy. Bassett has master's degrees in environmental management and ethics from the Yale School of the Environment and Yale Divinity School, a bachelor's degree from Emory University, and is originally from Milton, West Virginia.



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## LILY BERMEL

Research Associate

MIT Center for Energy and Environmental Policy Research  
Massachusetts Institute of Technology

Lily Bermel is a Research Associate working with MIT Innovation Fellow Brian Deese. She works on a range of climate change and industrial policy projects, including the Clean Investment Monitor and the Clean Energy Marshall Plan.

Before joining MIT, Lily served for three years as a policy advisor on the U.S. State Department climate team, led by Special Presidential Envoy for Climate John Kerry. There, she negotiated on behalf of the United States under the Paris Agreement, the UNFCCC, and other multilateral fora; led diplomatic and private sector engagement on mitigating nitrous oxide emissions; strengthened climate literacy within the U.S. Foreign Service, including by developing data analytics tools; shaped the first public-private “green trade mission” to Egypt; advanced implementation of the Global Methane Pledge; and coordinated several other efforts to strengthen global climate ambition.

Previously, Lily developed the sustainability department at Cornell Dining, wrote a series of policy proposals for the Kingdom of Tonga, and contributed to climate policy in Massachusetts at the state and local levels. Lily received a B.S. in Environment and Sustainability from Cornell University.



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## PATRICK BROWN

Researcher

Grid Planning and Analysis Center  
National Renewable Energy Laboratory

Patrick Brown is a member of the Transmission Group in the Grid Planning and Analysis Center at the National Renewable Energy Laboratory. His research focuses on improving the representation of renewable energy, transmission, and energy storage in power system planning models to support rapid decarbonization. Patrick completed his B.S. in physics and chemistry at Notre Dame, his Ph.D. in physics at MIT, and his postdoctoral studies at the MIT Energy Initiative.



## **JOSHUA HODGE**

Executive Director, MIT Center for Energy and Environmental Policy Research  
Research Director, MIT Climate Policy Center  
Lecturer, Sloan School of Management  
Massachusetts Institute of Technology

**Joshua Hodge** is the Executive Director at the MIT Center for Energy and Environmental Policy Research, Research Director at the MIT Climate Policy Center as well as a Lecturer at the MIT Sloan School of Management. His areas of expertise include domestic and international climate and energy policy, with a focus on energy transition and renewable energy policies in the United States. Joshua's recent work has included assisting rural electric cooperatives in the U.S. with decarbonization strategy.

Prior to his appointment as Executive Director at CEEPR, Mr. Hodge served for three years as Deputy Executive Director at both CEEPR and the MIT Joint Program on the Science and Policy of Global Change. Before joining MIT, Joshua ran the Commodities Research and Forecasts business, Americas, at Thomson Reuters, where he managed the launch of the firm's North American power and gas forecast modeling services. Previously, Mr. Hodge was Managing Director, North America, at Point Carbon where he was the firm's first hire in the region and oversaw the launch of Point Carbon's North American products. Joshua holds an MBA from the Darden Graduate School of Business at the University of Virginia and received his undergraduate education at the University of St. Andrews (UK).

Mr. Hodge is a member of the MIT Net-Zero by 2026 Faculty Review Committee and formerly served as a Commissioner on the Commission for Energy Use and Climate Change of the City of Somerville (MA).



## **VALERIE J. KARPLUS**

Professor, Department of Engineering and Public Policy  
Associate Director, Wilton E. Scott Institute for Energy Innovation  
Carnegie Mellon University

**Valerie J. Karplus** is a Professor in the department of Engineering and Public Policy and Associate Director of the Wilton E. Scott Institute for Energy Innovation at Carnegie Mellon University.

Karplus studies resource and environmental management in organizations operating in diverse national and industry contexts, with a focus on the role of institutions and management practices in explaining performance. Areas of expertise include decarbonization of global corporate and industrial supply chains, regional approaches to low carbon transition, and the integrated design and evaluation of energy, air quality, and climate policies. Karplus has taught courses on public policy analysis, global business strategy and organization, entrepreneurship, and the political economy of energy transitions. At CMU, she runs the Laboratory for Energy and Organizations at the Wilton E. Scott Institute for Energy Innovation, where she is a faculty affiliate. Karplus is also a faculty affiliate of the MIT Energy Initiative, the MIT Center for Energy and Environmental Policy Research, and the MIT Joint Program on the Science and Policy of Global Change. Karplus holds a B.S. in biochemistry and political science from Yale University and a Ph.D. in engineering systems from MIT.



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## **CHRISTOPHER R. KNITTEL**

Associate Dean of Climate, Energy, and Sustainability, Sloan School of Management  
Director, MIT Center for Energy and Environmental Policy Research  
Massachusetts Institute of Technology

Christopher Knittel is the George P. Shultz Professor of Energy Economics, Professor of Applied Economics, and the Associate Dean of Climate, Energy, and Sustainability at the Sloan School of Management at the Massachusetts Institute of Technology. He directs MIT's Center for Energy and Environmental Policy Research, which has served as the hub for social science research on energy and the environment since the late 1970s, and is the Director of MIT's new Climate Policy Center, which works directly with policy makers to analyze existing, proposed, and potential policy measures. Finally, Professor Knittel is the Director of the Inventing New Policy Approaches Mission for the Climate Project at MIT.

He joined the faculty at MIT in 2011, having taught previously at UC Davis and Boston University. At MIT he teaches Energy Economics and Policy to undergraduates, MBA students, and graduate students from outside of the Sloan School of Management. Professor Knittel received his B.A. in economics and political science from the California State University, Stanislaus in 1994 (*summa cum laude*), an M.A. in economics from UC Davis in 1996, and a Ph.D. in economics from UC Berkeley in 1999.

His research focuses on understanding how consumers and firms respond to changes in the energy environment, be it from prices or regulation, and what this means for the costs and benefits of policy. He is a Research Associate at the National Bureau of Economic Research in the Productivity, Industrial Organization, and Energy and Environmental Economics groups. His research has appeared in *The American Economic Review*, *The Journal of Political Economy*, *The American Economic Journal*, *The Review of Economics and Statistics*, *The Journal of Industrial Economics*, *The Energy Journal* and other academic journals.



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## **JAZZ M. LEWIS**

Legislative Director  
BlueGreen Alliance

Jazz M. Lewis, Legislative Director at the BlueGreen Alliance, infuses worker and climate priorities into trade negotiations and policies. Jazz joins the BlueGreen Alliance after eight years of serving as a Senior Policy Advisor in the office of U.S. Majority Leader Steny Hoyer, focusing on issues of transportation, housing, small business, and labor concerns. Jazz's contributions were instrumental in the passage of the COVID-19 CARES Act and the American Rescue Plan Act. Jazz also led political efforts as Executive Director of the campaign, overseeing operations, budgets, and strategic outreach. Jazz has also served in leadership roles in various House, Senate, and Presidential races.

Jazz also serves as the Majority Whip of the Maryland House of Delegates, representing a diverse community of 135,000 citizens. In this role, he provides strategic leadership and oversight for the state's budget, championing legislation on criminal justice reform, transit-oriented development, and tax provisions benefiting working families. Jazz began his career as a community and labor organizer with the Service Employees International Union (SEIU). He holds a Master of Public Policy and a Bachelor of Arts in Government & Politics from the University of Maryland, College Park.





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## **MICHAEL MEHLING**

Deputy Director

MIT Center for Energy and Environmental Policy Research

Massachusetts Institute of Technology

Dr. Michael Mehling is Deputy Director of the MIT Center for Energy and Environmental Policy Research and a Professor of Law at the University of Strathclyde. In his work, Dr. Mehling focuses on climate policy design and implementation, including its intersections with environmental, energy, and trade policy. On these topics, he has coordinated research projects for international organizations, government agencies, private companies and civil society organizations in North America, Europe, and the developing world. He has advised decision makers in over a dozen countries, testified before or briefed legislators in the United States, the United Kingdom, and the European Union, and served as an expert in several climate litigation cases.

Dr. Mehling also serves as a Member of the Board of Directors of Climate Strategies in London and Ecologic Institute in Berlin, a Member of the Advisory Board of the Institute for Climate Protection, Energy and Mobility (IKEM) in Berlin, and a Commissioner with the Commission on Carbon Competitiveness (C3) in Ottawa. He is a founding board member of Ecologic Institute in Washington DC, the Blockchain & Climate Institute (BCI) in London, and the European Roundtable on Climate Change and Sustainable Transition (ERCST) in Brussels, and founding editor of *Carbon & Climate Law Review* (CCLR), the first academic quarterly journal focused on climate law and regulation.



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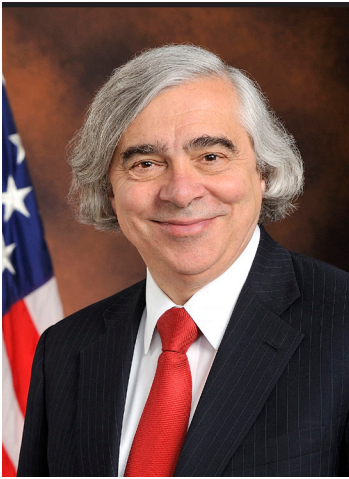
## **GILBERT E. METCALF**

Visiting Professor

Sloan School of Management

Massachusetts Institute of Technology

**Gilbert Metcalf** is a Visiting Professor at the Center for Energy and Environmental Policy Research and the Sloan School of Management at MIT. He is also the John DiBiaggio Professor of Citizenship and Public Service, Emeritus at Tufts University. In addition, he is a Research Associate at the National Bureau of Economic Research and a University Fellow at Resources For The Future. Metcalf's primary research area is applied public finance with particular interests in taxation, energy, and environmental economics. His current research focuses on policy evaluation and design in the area of energy and climate change. He has frequently testified before Congress, served on expert panels for the National Academies of Sciences and the U.S. Environmental Protection Agency, and served as a consultant to numerous other organizations. During 2011 and 2012, he served as the Deputy Assistant Secretary for Environment and Energy at the U.S. Department of Treasury where he was the founding U.S. Board Member for the UN based Green Climate Fund. He has published extensively in academic journals and books on various topics including energy and tax policy. Metcalf received a B.A. in Mathematics from Amherst College, an M.S. in Agricultural and Resource Economics from the University of Massachusetts Amherst, and a Ph.D. in Economics from Harvard University.



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## **ERNEST J. MONIZ**

Cecil and Ida Green Professor of Physics and Engineering Systems, Emeritus  
Department of Physics  
Massachusetts Institute of Technology

**Ernest J. Moniz** served as the thirteenth United States Secretary of Energy from 2013 to January 2017. As Secretary, he advanced energy technology innovation, nuclear security and strategic stability, cutting-edge capabilities for the American scientific research community, and environmental stewardship. He strengthened the Department of Energy (DOE) strategic partnership with its seventeen national laboratories and with the Department of Defense and the broader national security establishment. Specific accomplishments included producing analytically-based energy policy proposals that attracted bipartisan support and implementing legislation, leading an international initiative that placed energy science and technology innovation at the center of the global response to climate change, and negotiating alongside the Secretary of State the historic Iran nuclear agreement. He reorganized a number of DOE program elements, elevated sound project and risk management, and strengthened enterprise-wide management to improve mission outcomes.

Dr. Moniz served on the MIT faculty from 1973 until becoming Secretary of Energy in 2013 and is now the Cecil and Ida Green Professor of Physics and Engineering Systems emeritus and Special Advisor to the MIT President. He is co-chairman of the Board of Directors and CEO of the Nuclear Threat Initiative, a non-profit organization that has advanced innovative solutions for securing nuclear materials, building international cooperation for nuclear disarmament and nonproliferation, preventing the spread of disease and reducing radiological threats. He is the inaugural Distinguished Fellow of the Emerson Collective and CEO of the non-profit Energy Futures Initiative.



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## **KRYSTAL NOISEUX**

Senior Associate Director, MIT Climate Pathways Project  
Sloan School of Management  
Massachusetts Institute of Technology

**Krystal Noiseux** is Senior Associate Director of the MIT Climate Pathways Project, where her team uses interactive simulations and research insights to advance the adoption of evidence-based climate policy through leaders in the public and private sector. Krystal holds a B.S. in Environmental Science from Juniata College and an M.S. in the Human Dimensions of Wildlife Ecology and Conservation from the University of Florida. She also trained as a formal science educator at Providence College.

Prior to MIT, Krystal worked in environmental affairs for state government (Rhode Island, USA) and in the Harvard University Office for Sustainability. She is a recipient of numerous team and individual awards, including "Select and Scale-up Project" from the Paris Peace Forum, "Best of Rhode Island" from *Rhode Island Monthly Magazine*, and a Walt Disney Award for Environmental Excellence. Krystal was a weekly columnist for *The Providence Journal* for eight years and also served on the non-profit boards of the Rhode Island Environmental Education Association and Rhode Island Food Policy Council. She currently serves on the advisory board of the MIT Sloan Sustainability Initiative and resides in Washington, DC.



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## **JOHN E. PARSONS**

Deputy Director for Research  
MIT Center for Energy and Environmental Policy Research  
Massachusetts Institute of Technology

**John Parsons** is the Deputy Director for Research at the MIT Center for Energy and Environmental Policy Research (CEEPR). His research focuses on the valuation and financing of investments in energy markets, as well as the problems of risk in energy and environment markets. Recent publications have touched on the value of changing the utilization of transmission to maximize the value of hydro assets and expanded penetration of renewables, the value of investments in life extensions of nuclear power plants, the economics of new microreactors, and the impact of decarbonization on generation assets in the U.S. midcontinent.

Dr. Parsons served as an Associate Member of the U.S. Commodity Futures Trading Commission's Energy and Environmental Markets Advisory Committee. He has been a Visiting Scholar at the Federal Energy Regulatory Commission. Dr. Parsons served as the Executive Director at both CEEPR and the MIT Joint Program on the Science and Policy of Global Change, and also as Head of Sloan's MBA Finance Track. Before returning to MIT, Dr. Parsons spent ten years as a business consultant at Charles River Associates. He holds a Ph.D. in Economics from Northwestern University and an A.B. from Princeton University.



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## **BETHANY PATTEN**

Executive Director, MIT Climate Policy Center  
Senior Lecturer, Sloan School of Management  
Massachusetts Institute of Technology

**Bethany Patten** is the inaugural Executive Director of the Massachusetts Institute of Technology's Climate Policy Center—MIT's "front door" to provide evidence-based climate research for local, state, national, and international policymakers. In addition to leading MIT's Climate Policy Center, she is a Senior Lecturer at MIT Sloan School of Management. Her work centers on the translation of academic research into real-world impact in the public and private sector. Specifically, she examines how institutions can best practice ethical political engagement, connecting with and educating leaders ranging from MIT graduate students to members of the United States Congress.

Previous to this, she served as the Director of Policy and Engagement for the MIT Sloan Sustainability Initiative where she co-founded MIT Climate Pathways Project bringing together faculty, staff, and researchers to advance the adoption of evidence-based climate policy through top tier decision-makers. The project, which leverages the En-ROADS Climate Solutions Simulator co-developed by Climate Interactive and MIT Sloan, has engaged over 15,000 global leaders in government, business, and civil society.

Prior to MIT, Bethany worked for more than a decade in business and financial operations in the book publishing industry. She holds an MBA from the MIT Sloan School of Management, an MPA at the John F. Kennedy School of Government at Harvard University, and a B.A. from Boston College.



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## **ARI PESKOE**

Director, Electricity Law Initiative  
Harvard Law School  
Harvard University

**Ari Peskoe** is the Director of the Electricity Law Initiative at Harvard Law School. The Electricity Law Initiative focuses on state and federal regulation of electric utilities and legal challenges to state clean energy policies in federal courts. Ari's work aims to align the electricity sector's legal foundation with modern clean energy technologies and business models.

He has written extensively about regulation of the U.S. power sector, on issues ranging from Constitutional challenges to states' energy laws to interstate transmission development. Prior to the Environmental and Energy Law Program, Ari was an associate at a law firm in Washington, D.C. where he litigated before the Federal Energy Regulatory Commission about the Western Energy Crisis. He received his J.D. from Harvard Law School and graduated from the University of Pennsylvania with degrees in electrical engineering and business.



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## **CATRINA RORKE**

Senior Vice President for Policy and Research  
Climate Leadership Council

**Catrina Rorke** is senior vice president for policy and research at the Climate Leadership Council and executive director of the Center for Climate and Trade. She collaborates with an innovative team of experts and diverse stakeholders to conduct and publish pioneering research, explore innovative policy approaches, and educate policymakers in support of effective, fair, and lasting solutions that lower global carbon emissions.

Prior to joining the Council, Ms. Rorke founded the energy and environment programs at both the R Street Institute and the American Action Forum. She previously served as a legislative assistant to former U.S. Rep. Bob Inglis of South Carolina and staff to the House Committee on Science, Space, and Technology. In her time on the hill, Ms. Rorke helped develop the first Republican-sponsored carbon tax bill. She began her career as a presidential management fellow with the National Oceanic and Atmospheric Association.

Ms. Rorke has been recognized for her leadership in energy and climate policy by *E&E News*, *The Hill*, *National Journal*, and *Grist*, and her work has been published in national, local, and trade media. She supports center-right policy work by serving as a board member and advisor to several policy-focused organizations.





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## **JUAN RAMON L. SENGA**

Postdoctoral Associate

MIT Center for Energy and Environmental Policy Research

Massachusetts Institute of Technology

**Juan Senga** is a Postdoctoral Associate at the MIT Center for Energy and Environmental Policy Research and the MIT Climate Policy Center. His research focuses on quantitative and economic modeling of policies related to the energy transition. Currently, this spans evaluating transmission infrastructure legislation in the U.S., power systems analysis of the New England grid, and modeling the impact of Data Centers on power systems. Before joining CEEPR, Juan was a supply chain and sustainability postdoctoral fellow at Nanyang Technological University, Singapore. He obtained his Ph.D. from Nanyang Business School and a B.S. from Ateneo de Manila University.



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## **KATALIN SPRINGEL**

Assistant Professor

Department of Applied Economics

HEC Montréal

**Katalin Springel** is an Assistant Professor at the Department of Applied Economics of HEC Montréal. Her main research areas are in Industrial Organization, Energy and Environmental Economics and Public Economics. Her research focuses on the effects of environmental policies and economic incentives for new technologies in the transportation sector. This research aims to have practical implications for business and public policy through understanding the impacts of environmental policies and efficient policy design. In her current work, she studies how US federal government subsidies can be efficiently allocated and how the EV charging industry can become profitable earlier and outgrow reliance on subsidies from government and automobile manufacturers. Katalin holds a Ph.D. in Economics from UC Berkeley. Before joining HEC Montréal, she spent a year as a Postdoctoral Fellow at Resources for the Future then joined as an Assistant Professor in the Strategy, Economics, Ethics and Public Policy area in the McDonough School of Business at Georgetown University.



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## **JAMES H. STOCK**

Vice Provost for Climate and Sustainability  
Director, Salata Institute for Climate and Sustainability  
Harvard University

**James H. Stock** is Vice Provost for Climate and Sustainability, Harvard University; Director of the Salata Institute for Climate and Sustainability, Harvard University; the Harold Hitchings Burbank Professor of Political Economy, Faculty of Arts and Sciences; and a member of the faculty at the Harvard Kennedy School. His current research includes energy and environmental economics with a focus on fuels and on U.S. climate change policy. He is co-author, with Mark Watson, of a leading undergraduate econometrics textbook. In 2013–2014 he served as Member of President Obama’s Council of Economic Advisers, where his portfolio included macroeconomics and energy and environmental policy. He was Chair of the Harvard Economics Department from 2007–2009. He holds a M.S. in statistics and a Ph.D. in economics from the University of California, Berkeley.



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## **DREW STORY**

Managing Director, MIT Policy Lab  
Policy Director, MIT Climate Policy Center  
Massachusetts Institute of Technology

**Drew Story**, Ph.D., is Managing Director of MIT’s Policy Lab and Policy Director of MIT’s new Climate Policy Center. In these roles he guides MIT faculty through strategic policy engagement to increase the impact of their research.

Prior to joining MIT, Drew served as a policy advisor in the US Senate on energy, environment, and climate policy issues, including a year as an AAAS/ACS Congressional Science and Engineering Fellow. Over a dozen legislative provisions Drew advised on were signed into law as part of the Energy Act of 2020, the Infrastructure Investment and Jobs Act, the Inflation Reduction Act, the CHIPS and Science Act, and other legislative vehicles. Following his tenure in Congress, Drew led the development of two chapters of the Fifth National Climate Assessment at the US Global Change Research Program.

Drew received his Ph.D. in Chemical and Environmental Engineering with a Designated Emphasis in Public Policy from the University of California, Riverside and his B.S. in Physical Sciences Education from LeTourneau University.



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## ELIZABETH THOM

Ph.D. Candidate

Department of Government, Faculty of Arts and Sciences

Harvard University

**Elizabeth Thom** is a Ph.D. candidate in government & social policy and a Malcolm Wiener Scholar in Poverty and Justice at Harvard University. She studies social policy, inequality, and the political economy of the energy transition in the United States. Her dissertation project explores how policy responses to extractive industry decline in Appalachia reshape local community contexts and political behavior. Thom is also a researcher with the Salata Institute and the Roosevelt Project, a multi-year collaboration across several universities, including MIT, Harvard, and Carnegie Mellon, focused on regional strategies for deep decarbonization. Prior to her doctoral studies, Thom was a senior project coordinator and research assistant at the Brookings Institution. She graduated *summa cum laude* and Phi Beta Kappa from the University of Pennsylvania with a B.A. in political science and Hispanic studies. She earned her M.Sc. in comparative social policy from the University of Oxford.



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## TOM WILSON

Principal Technical Executive

Electric Power Research Institute

**Tom Wilson** is a Principal Technical Executive in the Integrated Grid and Energy Systems Division at EPRI. Dr. Wilson has conducted and managed research related to energy and environmental issues for over 40 years, the majority of which he has spent at EPRI, joining the institute in 1985. He has conducted and managed research focusing on decarbonization of the electric sector and the role of the electric sector in decarbonizing the economy for over 30 years.

Dr. Wilson has served as a convening lead author for the U.S. National Climate Assessment and as a contributing author to the Intergovernmental Panel on Climate Change's Fifth Assessment. He has served in advisory roles to energy and climate research groups, including MIT's Joint Program on the Science and Policy of Global Change, the University of Maryland's Global Energy Technology Strategy Program, Stanford's Energy Modeling Forum, and the National Renewable Energy Lab. From April 2022 – June 2023, Dr. Wilson served as Assistant Director for Electricity at the Office of Science and Technology in the White House.

Before joining EPRI, Dr. Wilson worked at ICF Incorporated, Stanford's Energy Modeling Forum and International Energy Program, and Brookhaven National Laboratory. He earned a bachelor's degree in Statistics from the University of North Carolina, Chapel Hill and master's and doctoral degrees in Operations Research from Stanford University