The Brookings Institution 1775 Massachusetts Ave, NW Washington, DC 20036-2103 <u>amorris@brookings.edu</u> <u>https://www.brookings.edu/experts/adele-morris/</u> <u>@AdeleCMorris</u>

- Leading global expert on the design and analysis of climate change policies
- Ph.D. economist with deep expertise in strategic economic and policy advising and analysis
- Conducts research that informs critical decisions related to climate change, energy, and fiscal
  policy
- Extensive advisory board, steering committee, international commission, and federal advisory committee service
- Strong communication skills, including in public speaking, print and video media, and technical/academic settings
- Proven ability to build consensus on contentious issues
- Extensive network of relationships with stakeholders in the energy and climate space
- Exceptional quantitative skills and financial acumen
- Demonstrated thought leadership and problem-solving abilities
- Special expertise and interest in issues related to energy, natural resources, agriculture, tax, fisheries, forestry, mining, manufacturing, and telecommunications and associated investment strategy
- Policymaking experience in White House, Treasury, State Department, and Congressional offices
- Detailed knowledge of regulatory, legislative, and diplomatic processes

#### **EXPERIENCE**

# The Brookings Institution, July 2008 - present

Joseph A. Pechman Senior Fellow (July 2020 – present) Senior Fellow (January 2015 – June 2020); Fellow (July 2008 - December 2014) Policy Director for the Climate and Energy Economics Project Economic Studies Program

# Joint Economic Committee of the U.S. Congress, July 2007 - July 2008

Senior Economist, Majority (Democratic) Staff Microeconomic portfolio including climate, energy, natural resources, and air traffic.

# U.S. Department of the Treasury, 1998 - 2007

Senior Economist, Office of Economic Policy Informed and represented Treasury's positions on agriculture, energy, climate, and radio spectrum policies.

# White House Domestic Policy Council, April 2001 - June 2001

Interagency Climate Review Working Group, Domestic Policy Council Represented Treasury in Cabinet-level review of the Bush administration's climate policy.

# U.S. Department of State, May 2000 - December 2000

Special Advisor/Economist, Office of Global Change

Led negotiations on land use, land use change, and forestry issues in international climate change agreements.

# White House Council of Economic Advisers, 1997 - 1998

Senior Economist for Environmental Affairs

Wrote economic briefings for the President, wrote a chapter of the *Economic Report of the President*, and served on interagency working groups.

# White House Office of Management and Budget, 1995 - 1997

Desk Officer, Office of Information and Regulatory Affairs

Oversaw rulemaking by agriculture and natural resource agencies and led interagency working groups to resolve policy disagreements. Enforced economic analysis requirements under E.O. 12866.

# Princeton University, 1991-1995

Lecturer, Woodrow Wilson School of Public and International Affairs, 1994 - 1995

Teaching Assistant, Department of Economics, 1991 - 1994

Courses included public finance, introductory microeconomics, statistics, and econometrics.

# University of Maryland University College, 1988-1989

Lecturer in Mathematics, U.S. military bases in Japan

Courses included algebra, trigonometry, calculus, and introductory computer science.

# Spatial Technology, 1987-1988

Developed mathematical software for 3-D modeling of free-form curves and surfaces.

## **EDUCATION**

Princeton University Ph.D. in Economics, 1999 University of Utah M.S. in Mathematics, 1987

Rice University B.S. in Mathematical Sciences & Art and Art History, 1985

# **EXECUTIVE EDUCATION**

Harvard Business School Women on Boards: Succeeding as a Corporate Director,

November 26-30, 2018

# SELECTED FELLOWSHIPS, GRANTS, AND HONORS

Judges' Choice Winner, MIT Center for Collective Intelligence Carbon Pricing Policy Proposal Contest 2018;

Linden Trust for Conservation Grant 2015-16, 2016-17, 2017-18, 2018-19

Judges' Choice Winner, MIT Center for Collective Intelligence Carbon Pricing Policy Proposal Contest 2014; one of three Honorable Mention prizes out of 18 contests and 600 climate proposal submissions

Laura and John Arnold Foundation Grant 2014-20

Alcoa Foundation Grant 2016-18

Listed in "100 People to Watch in the Fall," The Hill, 2013

National Science Foundation Grant (with the University of Nevada Las Vegas) 2013

Brookings Mountain West Fellowship 2009-2019

Alex C. Walker Foundation Grants 2012-13, 2013-14, 2014-15, 2015-16, 2016-17, 2017-18, 2018-19, 2019-20

Center for Climate and Energy Solutions Grant 2013

U.S. Department of Energy Grant 2010-12

Congressional Research Service Grant 2009

**Energy Foundation Grant 2009** 

Individual Performance Awards, U.S. Department of the Treasury (2001, 2004, 2005, and 2006)

Superior Honor Award (Team Award): "For sustained exceptional performance in what observers agree is the most complex negotiation ever undertaken by the U.S. Government – the pursuit of a climate change agreement..." U.S. Department of State, December 2000

Special Achievement Awards: Office of Management and Budget, 1996 and 1997 Group Honor Award for Excellence: U.S. Department of Agriculture, 1997 Princeton University Fellowship, 1990-1994 P.E.O. Scholar Award 1992

## PUBLICATIONS - PEER-REVIEWED JOURNAL ARTICLES

Under revise and resubmit: "Climate Change and Monetary Policy: Issues for Policy Design and Modelling," (with Warwick J. McKibbin, Augustus J. Panton, and Peter J. Wilcoxen)

Forthcoming: "Revenue at Risk in Coal-Reliant Counties," in *Environmental and Energy Policy and the Economy*, volume 2, Kotchen, Stock, and Wolfram. 2020 (with Noah Kaufman and Siddhi Doshi)

"Global economic and environmental outcomes of the Paris Agreement," *Energy Economics*, available online 27 June 2020 (with Weifeng Liu, Warwick J. McKibbin, and Peter J. Wilcoxen)

"Housing supply elasticity, gasoline prices, and residential property values," *Journal of Housing Economics*, 48 (2020) 101669 (with Helen R. Neill and N. Edward Coulson)

Comment on: Metcalf, Gilbert E. "On the Economics of a Carbon Tax for the United States." *Brookings Papers on Economic Activity*, vol. 2019 no. 1, 2019, p. 405-484.

"Introduction to the EMF 32 Study on U.S. Carbon Tax Scenarios," *Climate Change Economics*, 9(1), 2018. (with Allen A. Fawcett, James R. McFarland, and John P. Weyant)

- "Overview of economy-wide U.S. carbon tax strategies: Results from EMF 32," *Climate Change Economics*, 9(1), 2018. (with James McFarland, Allen A. Fawcett, James R. Reilly, and Peter J. Wilcoxen)
- "Policy insights from the EMF 32 study on U.S. carbon tax scenarios," *Climate Change Economics*, 9(1), 2018. (with Alexander R. Barron, Allen A. Fawcett, Marc A. Hafstead, and James R. McFarland).
- "The Role of Border Adjustments in a U.S. Carbon Tax," *Climate Change Economics*, 9(1), 2018. (with Warwick J. McKibbin, Peter J. Wilcoxen, and Weifeng Liu).
- "Reforming the U.S. coal leasing program," *Science* 354 (6316), pp. 1096-1098, 2016. (with Kenneth Gillingham, James Bushnell, Meredith Fowlie, Michael Greenstone, Charles Kolstad, Alan Krupnick, Richard Schmalensee, and James Stock).
- "Are New Homes Special?" *Real Estate Economics*, published online 2016. Print issue: Volume 47, Issue 3, pp. 784-806 (with N. Edward Coulson and Helen R. Neill)
- "Carbon Taxes and U.S. Fiscal Reform," *National Tax Journal*, 68(1), pp. 139-159, March 2015. (with Warwick J. McKibbin and Peter J. Wilcoxen).
- "A Proposal to Integrate Price Mechanisms into International Climate Negotiations," *Asia and the Pacific Policy Studies*, 1(3), pp. 600-608, 2014. (with Warwick J. McKibbin and Peter J. Wilcoxen)
- "Pricing Carbon in the United States: A Model-Based Analysis of Power Sector Only Approaches," *Resource and Energy Economics* 36, pp. 130-150, 2014. (with Warwick J. McKibbin and Peter J. Wilcoxen),
- "Distributional Effects of a Carbon Tax in Broader U.S. Fiscal Reform," *Energy Policy* 66, pp. 326-334, 2014. (with Aparna Mathur)
- "Clean Energy: Revisiting the Challenges of Industrial Policy," *Energy Economics*, 34(1), November 2012. (with Pietro S. Nivola and Charles L. Schultze)
- "The Technical Basis for Spectrum Rights: Policies to Enhance Market Efficiency," *Telecommunications Policy* 36(9), pp. 783-792 (2012).with Robert Matheson,
- "Subsidizing Energy Efficient Household Capital: How Does It Compare to a Carbon Tax?" *The Energy Journal*, 32(Special Issue), Strategies for Mitigating Climate Change Through Energy Efficiency: A Multi-Model Perspective, 2011. (with Warwick J. McKibbin and Peter J. Wilcoxen)

"Comparing Climate Commitments: A Model-Based Analysis of the Copenhagen Accord," *Climate Change Economics*, 2(2), pp. 79-103, 2011. (with Warwick J. McKibbin and Peter J. Wilcoxen)

"Spectrum Auctions: Distortionary Input Tax or Efficient Revenue Instrument?" *Telecommunications Policy*, 29(9-10), pp. 687-709, 2005.

## PUBLICATIONS - EDITED VOLUME AND SPECIAL JOURNAL ISSUE

EMF 32 Study on U.S. Carbon Tax Scenarios. Special Issue Editor, Climate Change Economics, 9(1). March 2018. (co-edited with Allen A. Fawcett, James R. McFarland, and John P. Weyant)

*Implementing a US Carbon Tax: Challenges and Debates*, Routledge, February 2015. (edited with Ian Parry and Roberton Williams).

#### PUBLICATIONS -BOOK CHAPTERS

"The Distributional Burden of a Carbon Tax: Evidence and Implications for Policy," in Ian Perry, Adele Morris, and Roberton Williams (eds.), *Implementing a US Carbon Tax:* Challenges and Debates, Routledge, February 2015. (with Aparna Mathur)

"Expecting the Unexpected: Macroeconomic Volatility and Climate Policy," in Joseph Aldy and Robert Stavins (eds.), *Implementing Architectures for Agreement: Addressing Global Climate Change in the Post-Kyoto World*, Cambridge University Press, pp. 857-886, 2010. (with Warwick McKibbin and Peter Wilcoxen)

"Property Tax Treatment of Farmland: Does Tax Relief Delay Land Development?" in Helen Ladd (ed.), *Local Government and Land Use Policies in the United States: Understanding the Links*, Edward Elgar Publishing, Ltd., January 1998.

# **PUBLICATIONS -- POLICY AND RESEARCH BRIEFS**

"Revenue at Risk in Coal-Reliant Counties," NBER Working Paper No. 27307, issued in June 2020 (with Noah Kaufman and Siddhi Doshi)

"Why Local Governments Should Prepare for the Fiscal Effects of a Dwindling Coal Industry," Tax Policy Center, August 20, 2019 (with Noah Kaufman and Siddhi Doshi)

"The Risk of Fiscal Collapse in Coal-Reliant Communities," Columbia University Center on Global Energy Policy, July 15, 2019. (with Noah Kaufman and Siddhi Doshi)

"Policy insights from comparing carbon pricing modeling scenarios," Brookings Institution, May 7, 2019. (with Alexander R. Barron and Marc A. C. Hafstead)

- "Making Border Carbon Adjustments Work in Law and Practice," Brookings Institution, July 26, 2018.
- "Climate Change and Monetary Policy: Dealing with Disruption," Brookings Institution, December 1, 2017. (with Warwick J. McKibbin, Augustus J. Panton, and Peter J.Wilcoxen)
- "Brief: Potential Linkages between a U.S. Carbon Tax and the Earned Income Tax Credit," Urban-Brookings Tax Policy Center, July 31, 2017. (with Aparna Mathur)
- "The Role of Border Adjustments in a U.S. Carbon Tax," The Brookings Institution, May 31, 2017. (with Warwick McKibbin and Peter Wilcoxen)
- "A Carbon Tax and the Earned Income Tax Credit: An Analysis of Potential Linkages," The Brookings Institution, January 23, 2017. (with Aparna Mathur)
- "The Challenges of State Reliance on Revenue from Fossil Fuel Production," The Brookings Institution, August 9, 2016.
- "State-Level Carbon Taxes: Options and Opportunities for Policymakers," The Brookings Institution, July 28, 2016. (with Yoram Bauman and David Bookbinder)
- "11 Essential Questions for Designing a Policy to Price Carbon," The Brookings Institution, July 8, 2016.
- "Build a Better Future for Coal Workers and Their Communities," The Brookings Institution, April 25, 2016.
- "How to Use Carbon Tax Revenue," Urban-Brookings Tax Policy Center, February 23, 2016. (with Donald Marron)
- "How Should Governments Use Revenue from Corrective Taxes?" Urban-Brookings Tax Policy Center, January 29, 2016. (with Donald Marron)
- "China's Carbon Future: A Model-Based Analysis," The Brookings Institution, December 31, 2016. (with Warwick J. McKibbin and Peter J. Wilcoxen)
- "Controlling Carbon Emissions from U.S. Power Plants: How a Tradable Performance Standard Compares to a Carbon Tax," The Brookings Institution, August 3, 2015. (with Warwick J. McKibbin and Peter J. Wilcoxen)
- "Do Gasoline Prices Affect Residential Property Values?" The Brookings Institution, December 4, 2014. (with Helen Neill)
- "How the EPA Should Modify Its Proposed 111(d) Regulations to Allow States to Comply By Taxing Pollution," The Brookings Institution, October 28, 2014. (with Michael Wara and Marta Darby)

- "Energy Perspective Paper: Benefits and Costs of the Energy Targets for the Post-2015 Development Agenda," Copenhagen Consensus Center, October 29, 2014.
- "Greasing the Wheels of Federal Spectrum Deals," The Brookings Institution, September 23, 2014.
- "The Economic Consequences of Delay in U.S. Climate Policy," The Brookings Institution, June 3, 2014. (with Warwick McKibbin and Peter Wilcoxen)
- "A State Tax Approach to Regulating Greenhouse Gas Emissions Under the Clean Air Act," The Brookings Institution, May 22, 2014. (with Samuel D. Eisenberg, Michael Wara, Marta R. Darby, and Joel Minor)
- "A Carbon Tax in Broader U.S. Fiscal Reform: Design and Distributional Issues," Center for Climate and Energy Solutions, May 2014. (with Aparna Mathur)
- "Comments on Senate Finance Committee Proposal for Energy Tax Reform," The Brookings Institution, January 30, 2014.
- "Recommendations to the U.S. Environmental Protection Agency: Why EPA Should Offer a Price-Based Standard for Carbon Pollution from Existing Power Plants," The Brookings Institution, November 7, 2013.
- "The Many Benefits of a Carbon Tax," The Hamilton Project, The Brookings Institution, February 26, 2013.
- "A Climate Diplomacy Proposal: Carbon Pricing Consultations," The Brookings Institution and *Viewpoints*, The Harvard Project on International Climate Agreements, February 8, 2013. (with Warwick J. McKibbin and Peter J. Wilcoxen)
- "Distributional Effects of a Carbon Tax in Broader U.S. Fiscal Reform," The Brookings Institution, December 14, 2012. (with Aparna Mathur)
- "Bridging the Gap: Integrating Price Mechanisms into International Climate Negotiations," The Brookings Institution, December 3, 2012. (with Warwick McKibbin and Peter Wilcoxen)
- "Achieving Comparable Efforts through Carbon Price Agreements," The Harvard Project on International Climate Agreements, Harvard University Kennedy School, December 2009. (with W. McKibbin and P. Wilcoxen, *Viewpoints*)
- "Equity and Efficiency in Cap-and-Trade: Effectively Managing the Emissions Allowance Supply," Brookings Institution Policy Brief 09-05, October 2009.

- "The G-20 and Climate Change: Achieving Comparable Effort through a Carbon Price Collar," in *G-20 Summit: Recovering from the Crisis*, The Brookings Institution, September 2009. (with Warwick J. McKibbin and Peter J. Wilcoxen)
- "A Copenhagen Collar: Achieving Comparable Effort Through Carbon Price Agreements," in *Climate Change Policy: Recommendations to Reach Consensus*, The Brookings Institution, September 2009. (with Warwick J. McKibbin and Peter J, Wilcoxen)
- "Emerging US Climate Policies and the Prospects for Copenhagen," in *Growth 61: A Taxing Debate: Climate Policy Beyond Copenhagen*, Committee for Economic Development of Australia, August 2009.
- "Consequences of Alternative U.S. Cap-and-Trade Policies: Controlling Both Emissions and Costs," The Brookings Institution, June 2009. (with Warwick J. McKibbin, Peter J. Wilcoxen, and Yiyong Cai)
- "Setting the Right Green Agenda," in *Top 10 Global Economic Challenges Facing America's 44<sup>th</sup> President*, The Brookings Institution, October 2008. (with Warwick J. McKibbin and Peter J. Wilcoxen)
- "Your Flight Has Been Delayed Again: Flight Delays Cost Passengers, Airlines, and the U.S. Economy Billions," Joint Economic Committee Majority Staff Report, May 2008.

#### RESEARCH IN PROGRESS

- "The role of U.S. financial market supervisors in climate change," with Warwick J. McKibbin
- "Meeting the needs of coal workers and their communities in the low carbon transition," with Siddhi Doshi

## SELECTED PRESS AND OPINION PIECES

- "Why the climate challenge needs congressional action," The Brookings Institution, April 21, 2018. (with Samantha Gross)
- "How to improve tax reform: a carbon tax and expanded benefits for working families," American Enterprise Institute, December 8, 2017. (with Aparna Mathur)
- "Governments need a revenue system compatible with a low-carbon future," *Las Vegas Sun* and Brookings' *Planet Policy* blog, October 3, 2016.
- "Tax carbon, California the rest of the nation will thank you," *Los Angeles Times*, August 10, 2016. (with Michael Wara and Jerry Taylor)

"Coal economy workers need help—and a carbon tax could provide it," Brookings' *Planet Policy* blog, April 26, 2016.

"Beyond the Paris agreement: COP21 shouldn't be a milestone, but rather a launching pad for a new phase of climate action," Brookings' *Planet Policy* blog, December 14, 2015. (with Bruce Jones)

"Pricing Carbon," *COP21 at Paris: What to Expect*, Brookings, December 2015. (with Warwick J. McKibbin and Peter J. Wilcoxen)

"The science of climate is increasingly clear. Let's pivot to policy," Brookings' *Planet Policy* blog, October 27, 2015.

"To comply with the Clean Power Plan, states should tax carbon," *The Hill*, September 2, 2015. (with Evan Weber)

"Why the federal government should shadow price carbon," Brookings' *Planet Policy* blog, July 13, 2015.

"An EPA-Sanctioned State-Based Carbon Tax Could Reduce Emissions and Improve State Finances," *Tax Vox*, the Tax Policy Center Blog, April 1, 2014.

"CO<sub>2</sub> Emission Permit Prices Plunge In Europe: What's Up?" *Real Clear Markets*, May 17, 2013.

"China's Carbon Tax Proposal Highlights the Need for a New Track of Climate Talks," *East Asia Forum*, March 19, 2013.

"Want a Pro-Growth Pro-Environment Plan? Economists agree: Tax Carbon," The Brookings Institution, February 7, 2013.

"Solutions to Environmental Threats: Climate Change," in *Scientific American*, Volume 302, No. 4, p. 59, April 2010.

## PROFESSIONAL SERVICE AND ACTIVITIES

## **Committees and Professional Organizations**

Member: U. S. Commodity Futures Trading Commission Climate-Related Market Risk Subcommittee, 2020

Working Group to develop a framework document as input to the third Vatican Dialogue on Energy Transition and Our Common Home, under the auspices of Vatican Dialogues, the Dicastery for Promoting Integral Human Development, and the University of Notre Dame, Spring 2020

High-Level Carbon Pricing Commission (Co-Chairs: Joseph Stiglitz and Nicholas Stern), and contributing to *Report of the High Level Commission on Carbon Prices*, Carbon Pricing Leadership Coalition, May 29, 2017

Association of Environmental and Resource Economists (AERE)

American Economic Association

National Tax Association

Co-Chair: Energy Modeling Forum 32: Multi-model Analyses of Clean Air Act Regulation of CO<sub>2</sub> from Power Plants and a US Carbon Tax with Alternative Revenue Recycling Approaches, 2014-2018

Steering Committees: Energy Future Coalition, United Nations Foundation, 2014-16

Pricing Carbon Dialogues, 2014-20

Alexandria City Public Schools, Talented and Gifted Advisory Committee 2009-2013

# **Conference Committees and Organizing**

Program Committee, National Tax Association Annual Conference, Fall 2020

- Co-Organizer of the Australian National University (ANU)/Brookings Workshop on the Global Economy, The Brookings Institution, February 10-11, 2020
- Scientific Committee: Research Conference on Carbon Pricing, Carbon Pricing Leadership Coalition, Winter 2019
- Co-Organizer of the ANU/Brookings Workshop on "Disruption and Development: Alternative Futures of the Global Economy," The Brookings Institution, February 4-5, 2019
- Session organizer, World Congress of Environmental and Resource Economists, Gothenburg, Sweden, June 2018
- Co-Organizer of ANU/Brookings Workshop on "The Global Economy: Drivers for the Next Decades," Brookings, March 6-7, 2018
- Organizer: Brookings workshop on "Making Border Carbon Adjustments Work in Law and Practice," February 28, 2018
- Co-Organizer of the ANU/Brookings Workshop on "The Global Economy: Drivers for the Next Decades," held at The Brookings Institution, May 31 –June 1, 2017
- Co-Organizer: Brookings event on "Carbon Pricing and the Future of Global Climate Cooperation," April 19, 2017
- Co-Organizer: Meeting of Energy Modeling Forum 32: U.S. Study on Power Sector and Carbon Tax Scenarios, held at The Brookings Institution, February 2-3, 2017
- Co-Organizer: Meeting of Energy Modeling Forum 32: U.S. Study on Power Sector and Carbon Tax Scenarios, held at The Brookings Institution, March 29-30, 2016
- Co-Organizer of the ANU/Brookings Workshop on "The Global Economy by 2020: Pressures and Prospects," held at The Brookings Institution, March 8-9, 2016

Organizer: Brookings event on "States' implementation of EPA's Clean Power Plan: What are the prospects and options?" February 22, 2016

Organizer: Brookings conference on "Building a Better Future for Coal Workers and Their Communities," November 13, 2015

Co-Organizer: Meeting of Energy Modeling Forum 32: U.S. Study on Power Sector and Carbon Tax Scenarios, held at The Brookings Institution, June 9-10, 2015

Session organizer, AERE Conference, San Diego, California, 2015

Co-Organizer of the ANU/Brookings Workshop on "Growth Prospects and Fragilities in the Global Economy," held at The Brookings Institution, March 17-18, 2015

Session organizer, National Tax Association, Spring Symposium, 2015

Organizer and Research Paper Coordinator and Editor: Brookings event on "New Directions for Public Sector Spectrum Policy," September 23, 2014

Co-Organizer of the ANU/Brookings Workshop on "Scenarios for a Fragile Global Economy," held at The Brookings Institution, March 4-5, 2014

Session organizer, AERE Conference, Banff, Canada 2013

Program Committee for Telecommunications Policy Research Conference 2012

# Selected Invited Talks, Seminars, Presentations, Briefings, Webinars, and Podcasts

Centre for Applied Macroeconomic Analysis at Australian National University, Environmental Law Institute, New York University, MIT Center for Energy and Environmental Policy Research, Harvard Kennedy School, The Neoliberal Podcast, University of Wyoming, Powder River Basin Resource Council, Business Roundtable, Breakthrough Institute, Brookings Executive Education, Brookings Municipal Finance Conference 2019, Columbia University Center on Global Energy Policy (podcast), My Climate Journey (podcast), Brookings Papers on Economic Activity, National Bureau of Economic Research, State Carbon Pricing Network, EY, Canadian Embassy, CERES, PwC, American Action Forum, Financial Executives International Committee on Taxation, Center for Strategic and International Studies, Agricultural and Applied Economics Association 2018 annual meeting, Citizens' Climate Lobby 2018 and 2019 conferences, Environmental Protection Agency workshop on transitional labor dynamics, The Peter G. Peterson Foundation 2018 Fiscal Summit, George Washington U./U.S. Association for Energy Economics 22<sup>nd</sup> annual energy policy conference, Pricing Carbon Dialogues, World Bank, Financial Times Climate Finance Summit 2018, Embassy of France, Public Leadership Education Network, Northeastern Agricultural and Resource Economics Association, League of Women Voters, EcoFiscal Commission, Partnership for Market Readiness, Hoover Institution, Cato Institute, Toronto Centre, Harvard University environmental economics seminar series, Union of Concerned Scientists, Global CCS Institute, International Monetary Fund, U. of Vermont, Canadians for Clean Prosperity, Sustainable Business Council, Partnership for Responsible Growth, Urban-Brookings Tax Policy Center, West Virginia U., Society of Government Economists, Center for Climate and Energy Solutions, National Tax Association, *The Atlantic* Summit on the Economy, The Hamilton Project, The Brookings Institution, U.S. Congress, U.S. Chamber of Commerce, Center for Naval Analysis, Carnegie Endowment, Johns Hopkins U., Australian National U., Aspen Institute, U. of Nevada Las Vegas, Georgetown U., Grinnell College, Syracuse U., U.S. intelligence agencies, Resources for the Future, Heritage Foundation, U.S. Department of Agriculture, American Enterprise

Institute, Stanford Energy Modeling Forum, American Economic Association, Association of Environmental and Resource Economists, Telecommunications Policy Research Conference, Point Carbon, American Tax Policy Institute, U.S. Association of Energy Economics, Environmental and Energy Study Institute, Committee for Economic Development of Australia, U.S. Agency for International Development

#### Referee and Reviewer

Science, Energy Policy, Journal of the Association of Environmental and Resource Economists, Energy Economics, National Academy of Sciences, Copenhagen Consensus Center, Congressional Budget Office, Climatic Change, USDA's Economic Research Service, Intergovernmental Panel on Climate Change Fourth Assessment Report, grant application review for the Smith Richardson Foundation

# **Selected Media Coverage**

Charleston West Virginia's Gazette-Mail, Yale's The Politic, Rolling Stone, CQ Roll Call, Yahoo Finance, Climatewire, New York Times, Washington Post, Wall Street Journal, Energy and Environment News, Red Green and Blue, Spectrum News, Axios, MSNBC, CNN, Epoch Times, Fox Business, Inside Sources, U.S. News and World Report, Forbes, MIT Technology Review, Los Angeles Times, Chicago Tribune, National Public Radio, Financial Times, San Francisco Chronicle, Reuters, Bloomberg News, Las Vegas Sun, National Journal, Inside EPA, Politifact, BBC, Reason TV, The Hill, Politico, Seeker, High Country News, POWER Magazine, Christian Science Monitor, Inside Climate News, Houston Chronicle, Washington Times, Weekly Standard, VICE News, Huffington Post

#### **Research Affiliations**

Urban-Brookings Tax Policy Center
Brookings Center on Regulation and Markets
Brookings Hutchins Center on Fiscal and Monetary Policy
Research Associate, Centre for Applied Macroeconomic Analysis, Crawford School of
Public Policy, Australian National University

## **Paid Consulting Relationships**

Expert Network Group 2019
Gerson Lehrman Group 2017-19
Climate Advisers, a Certified B Corporation 2016

## **Other Advisory Affiliations**

Citizens' Climate Lobby Advisory Board
Climate Advisers Trust Advisory Board
2018-present
2018-present

Technical Advisory Group, World Bank Climate Action Peer Exchange (a consultative group

for global finance ministries) 2017

## SELECTED LEGISLATIVE TESTIMONY

"A Regional Cost Collection Initiative," Testimony Before the Committee on Economic Matters on Maryland House Bill 939, Maryland House of Delegates, March 5, 2018.

## SELECTED DIPLOMATIC ACTIVITIES

*Editor and Lead Author*: United States Submission to United Nations Framework Convention on Climate Change, *U.S. Views on Land Use, Land Use Change and Forestry*, August 1, 2000, 65 pages.

*Lead U.S. negotiator*: Sixth Conference of the Parties to the United Nations Framework Convention on Climate Change (COP-6), The Hague, Netherlands, November 13-24, 2000.

*Lead U.S. negotiator*: Subsidiary Bodies Meeting of the United Nations Framework Convention on Climate Change, June 2000 in Bonn, Germany, and September 2000 in Lyon, France.

*Head of U.S. delegation*: Specialized meetings under the auspices of the United Nations Framework Convention on Climate Change, 2000.