

Noah Kaufman

Columbia University



EDUCATION

PhD in Economics, 2011, University of Texas at Austin. Dissertation: *Essays on the Optimal Policy Response to Climate Change*. Thomas Wiseman, Chair

MS in Economics, 2009, University of Texas at Austin

BS in Economics, *cum laude*, 2004, Duke University

PROFESSIONAL EXPERIENCE

Columbia University

- Senior Research Scholar, SIPA Center on Global Energy Policy, 2023-present
- Research Scholar, SIPA Center on Global Energy Policy, 2018-2023

White House, Executive Office of the President, Council of Economic Advisers

- Senior Economist, 2021-2022

World Resources Institute

- Climate Economist, Global Climate Program, 2015-2017

White House, Executive Office of the President, Council on Environmental Quality

- Deputy Associate Director for Energy & Climate Change, 2016-2017

NERA Economic Consulting

- Senior Consultant, Environment & Energy Practice, 2014-2015
- Consultant, Environment & Energy Practice, 2011-2014
- Analyst, Securities & Finance Practice, 2006-2007

University of Texas at Austin

- Teacher's Assistant, Environment & Resource Economics; Microeconomics, 2007-2011

Resources for the Future

- Research Analyst, summer 2008 & 2009

Keefe Bruyette & Woods, Inc.

- Analyst, Corporate Finance Department, 2004-2006

PUBLICATIONS

Academic journal articles and book chapters

- Godlevskaya D, C Galik and N Kaufman (2021). Major US Electric Utility Climate Pledges have the Potential to Collectively Reduce Power Sector Emissions by One-third. *One Earth*, Vol 4, Issue 12, 1741-1751.
- Morris A, N Kaufman, and S Doshi (2021). Revenue at Risk in Coal-Reliant Counties; Chapter 3 in “Environmental and Energy Policy and the Economy.” *National Bureau of Economic Research*. Volume 2.
- Kaufman N, AR Barron et al. (2020). A Near-term to Net Zero Alternative to the Social Cost of Carbon for Setting Carbon Prices. *Nature Climate Change*, 10, 1010–1014.
- Bordoff J, and N Kaufman (2018). A Federal US Carbon Tax: Major Design Decisions and Implications. *Joule*, 2(12), 2487-2491.
- Tuladhar S, DW Montgomery, and N Kaufman (2015). Environmental policy for fiscal reform: can a carbon tax play a role? *National tax journal*, 68(1). 179-193.
- Kaufman N (2014). Why is Risk Aversion Unaccounted for in Environmental Policy Evaluations? *Climatic Change*, 125(2), 127-135.
- Kaufman N (2014). Overcoming the Barriers to the Market Performance of Green Consumer Goods. *Resource and Energy Economics*, 36(2), 487-507.
- Kaufman N, and K Palmer (2012). Efficiency Program Evaluations: Opportunities for Learning and Inputs to Incentive Mechanisms, *Energy Efficiency*, 5(2), 243-268.
- Kaufman N (2012). The Bias of Integrated Assessment Models that Ignore Climate Catastrophes, *Climatic Change*, 110(3-4), 575-595.

Other peer-reviewed publications

- Larsen J, N Kaufman, et al. (2020). Expanding the Reach of a Carbon Tax: Emissions Impacts of Pricing Combined with Additional Climate Actions. *Columbia SIPA Center on Global Energy Policy*. October 2020.
- Kaufman N, D Sandalow et al. (2019). Decarbonizing Space Heating with Air Source Heat Pumps. *Columbia University SIPA Center on Global Energy Policy*. December 2019.
- Kaufman N, J Larsen, et al. (2019). An Assessment of the Energy Innovation and Carbon Dividend Act, *Columbia SIPA Center on Global Energy Policy*. November 2019.

- Morris A, N Kaufman, and S Doshi (2019). The Risk of Fiscal Collapse in Coal-reliant Communities, *Brookings Institution and Columbia SIPA Center on Global Energy Policy*. July 2019.
- Gundlach J, R Minsk and N Kaufman (2019). Interactions between a Federal Carbon Tax and Other Climate Policies, *Columbia SIPA Center on Global Energy Policy*. March 2019.
- Kaufman N and K Gordon (2018). The Energy, Economic, and Emissions Impacts of a Federal US Carbon Tax, *Columbia SIPA Center on Global Energy Policy*. July 2018.
- Kaufman N, E Krause, and K DeSousa (2018). Achieving U.S. Emissions Targets with a Carbon Tax. *World Resources Institute*. June 2018.
- Pacyniak G, N Kaufman et al. (2017). An Examination of Policy Options for Achieving Greenhouse Gas Emissions Reductions in New Jersey. *Rutgers University and Georgetown Climate Center*. September 2017.
- Kaufman N and E Krause (2016). Putting a Price on Carbon: Ensuring Equity. *World Resources Institute*. April 2016.
- Kaufman N, M Obeiter and E Krause (2016). Putting a Price on Carbon: Reducing Emissions. *World Resources Institute*. January 2016.
- Kennedy K, M Obeiter and N Kaufman (2015). Putting a Price on Carbon: A Handbook for U.S. Policymakers. *World Resources Institute*. April 2015.
- Policy Briefs, Consulting Reports, & Expert Testimony**
- Heal G, N Kaufman, and A Milner (2023). Discounting the Distant Future: A Critique of the EPA's Analysis of the Social Cost of Carbon. *Columbia University Center on Global Energy Policy*. June 2023.
- Kaufman N (2022). A Chance to Phase Out Support for Corn Ethanol in the Renewable Fuel Standard. *Columbia University Center on Global Energy Policy*. November 2022.
- Kaufman N (2022). How the Unequal Effects of Climate Change Broke Economists' Favorite Tool. *Columbia University Center on Global Energy Policy*. October 2022.
- Sivaram V, M Bowen, N Kaufman, and D Rand. (2021). To Bring Emissions-Slashing Technologies to Market, the United States Needs Targeted Demand-Pull Innovation Policies. *Columbia University Center on Global Energy Policy*. January 2021.
- Kaufman N, J Larsen, et al. (2020). Output-based Rebates: An Alternative to Border Carbon Adjustments for Preserving U.S. Competitiveness. *Columbia University Center on Global Energy Policy*. December 2020.

Kaufman N and YA Tan (2020). New York City's Building Emissions Law Shows the Importance of Economywide Climate Policy. *Columbia University Center on Global Energy Policy*. October 2020.

Kaufman N (2020). The Greenest Stimulus Is One that Delivers Rapid Economic Recovery. *Columbia University Center on Global Energy Policy*. June 2020.

Congressional Testimony of Noah Kaufman. Solutions for Economy-wide Decarbonization. *The Subcommittee on Environment and Climate Change of the Committee on Energy and Commerce, United States House of Representatives, 116th Congress*. December 2019.

Sivaram V and N Kaufman (2019). The Next Generation of Federal Clean Electricity Tax Credits. *Columbia SIPA Center on Global Energy Policy*. May 2019.

Kaufman N (2019). A Clean Electricity Standard's Weaknesses May Be Its Biggest Strengths. *Columbia SIPA Center on Global Energy Policy*. May 2019.

Kaufman N (2018). A Comparison of the Bipartisan Energy Innovation and Dividend Act with Other Carbon Tax Proposals. *Columbia SIPA Center on Global Energy Policy* (republished by *Law360*). November 2018.

Kaufman N (2018). A Carbon Tax Under Real-World Constraints. *Columbia SIPA Center on Global Energy Policy*. October 2018.

Kaufman N (2018). Alternatives to the Social Cost of Carbon in Taxes and Subsidies. *Columbia SIPA Center on Global Energy Policy*. June 2018.

Kaufman N, J Larsen, et al. (2018). Emissions, Energy, and Economic Implications of the Curbelo Carbon Tax Proposal. *Columbia SIPA Center on Global Energy Policy*. July 2018.

Kaufman, N (2018). The Use of Current Social Cost of Carbon Estimates in Taxes and Subsidies. *Columbia SIPA Center on Global Energy Policy*. March 2018.

Kaufman N and J Elkind (2018). Can China's CO2 Trading System Avoid the Pitfalls of Other Emissions Trading Schemes? *Columbia SIPA Center on Global Energy Policy*. February 2018.

Kaufman N and E Krause (2017). The Economic Impacts of the Clean Power Plan: How Studies of the Same Regulation Can Produce Such Different Results. *World Resources Institute*. January 2017.

Igusky K, R Gasper, and N Kaufman (2016). How Illinois Can Meet Its Clean Power Plan Targets, *World Resources Institute*. April 2016.

Gasper R, K Igusky, and N Kaufman (2016). How Wisconsin Can Meet Its Clean Power Plan Targets, *World Resources Institute*. May 2016.

- Gasper R, K Igusky, and N Kaufman (2016). How Missouri Can Meet Its Clean Power Plan Targets, *World Resources Institute*. January 2016.
- Igusky K, R Gasper, and N Kaufman (2016). How Michigan Can Meet Its Clean Power Plan Targets, *World Resources Institute*. January 2016.
- Igusky K, R Gasper, and N Kaufman (2015). How Pennsylvania Can Meet Its Clean Power Plan Targets, *World Resources Institute*. November 2015.
- Ambachtsheer J, N Kaufman, et al. (2015). Investing in a Time of Climate Change. *Mercer Climate Change*. April 2015
- Kaufman N (2015). Avoided Costs of Electricity for Residential Solar Customers in Selected Public Utility Service Areas: 2015-2035. *NERA Economic Consulting* (private report prepared for a residential solar company).
- Harrison D and N Kaufman (2015). Economic Analysis of the Effects of Fuel Economy and Fuel Economy Misstatements on the Market Price of Vehicles. *NERA Economic Consulting* (private report prepared for an automobile manufacturer).
- Harrison D and N Kaufman (2014). Economics in Environmental Decision-making: US Environmental Protection Agency Provides for Site-Specific Cost-Benefit Analysis in Setting 316(b) Clean Water Standards, *NERA Economic Consulting*. March 2014.
- Harrison D and N Kaufman (2014). Prepared Rebuttal Testimony of David Harrison Jr. and Noah Kaufman on behalf of Public Service New Hampshire, July 11, 2014. *Expert Testimony before the New Hampshire Public Utilities Commission*.
- Kaufman N (2014). Annual Energy Outlook Projections and the Future of Solar PV Electricity, *New York University School of Law: Institute for Policy Integrity*. April 2014.
- Harrison D and N Kaufman (2014). Competitive Effects of Removing an Engine Standard from Phase 2 Greenhouse Gas Regulations for Heavy Duty Trucks, *NERA Economic Consulting* (private report prepared for a truck engine manufacturer).
- Harrison D, A Foss, N Kaufman and A Locke (2014). Environmental Costs and Economic Impacts of the Emissions Reduction and Capacity Replacement Plan: prepared for NV Energy, Inc. *NERA Economic Consulting*.
- Harrison D and N Kaufman (2014). Economic Analysis of a Component (Vehicle and Engine) Approach to Phase 2 Greenhouse Gas Emissions Standard for U.S. Commercial Vehicles. *NERA Economic Consulting* (private report prepared for a truck engine manufacturer).
- Falk J, N Kaufman and S Buryk (2013). Effective Use of Demand Side Resources: The Continued Need for Availability Payments. *NERA Economic Consulting*. October 2013.

Harrison D and N Kaufman (2013). Benefits and Costs of Cylindrical Wedgewire Screens and Cooling Towers at IPEC, prepared for Entergy Nuclear Indian Point 2, LLC and Entergy Nuclear Indian Point 3, LLC. *NERA Economic Consulting*.

Harrison D, A Foss, and N Kaufman (2013). “Wholly Disproportionate” Assessments of Cylindrical Wedgewire Screens and Cooling Towers at IPEC: prepared for Entergy Nuclear Indian Point 2, LLC and Entergy Nuclear Indian Point 3, LLC. *NERA Economic Consulting*.

Harrison D, A Foss, and N Kaufman (2013). A Carbon Dioxide Standard for Existing Power Plants: Impacts of the NRDC Proposal. *NERA Economic Consulting* (private report prepared for a trade association).

Smith A and N Kaufman (2013). The U.S. Government’s Updated Social Cost of Carbon and Implications for Including Greenhouse Gas Emission Benefits in Cost Benefit Assessments. *NERA Economic Consulting* (private report prepared for an energy company).

Smith A, N Kaufman et al. (2013). Economic Outcomes of a U.S. Carbon Tax, *NERA Economic Consulting* (private report prepared for a trade association).

Harrison D, N Kaufman et al. (2012) Comments on EPA’s Notice of Data Availability for §316(b) Stated Preference Survey. *NERA Economic Consulting: Prepared for: Utility Water Act Group and Edison Electric Institute*. July 2012.

Harrison D, N Kaufman, and N Hodges (2012). Report on the Socioeconomic Effects to Mid-Atlantic States of the Relicensing of Hydroelectricity Facilities. *NERA Economic Consulting* (private report prepared for an energy company).

Harrison D, A Foss, and N Kaufman (2012). Environmental and Economic Impacts of the Second Amendment to the 2010 Integrated Resource Plan: prepared for Sierra Pacific Power. *NERA Economic Consulting*.

Harrison D, N Kaufman and N Franco (2012). Benefit-Cost Analysis of Alternative Technologies and Operational Measures of Cooling Water System Alternatives at Millstone Power Station: prepared for Dominion Energy. *NERA Economic Consulting*.

Harrison D, A Foss, and N Kaufman (2012). Comments on EPA’s Notice of Data Availability for §316(b) Stated Preference Survey: prepared for Utility Water Act Group and Edison Electric Institute. *NERA Economic Consulting*.

Harrison D, A Foss, and N Kaufman (2012). Environmental and Economic Impacts of the 2012 Integrated Resource Plan: prepared for Nevada Power Company. *NERA Economic Consulting*.

Harrison D, A Foss, and N Kaufman (2012). Economic Analysis of Cooling Water Intake Alternatives at Merrimack Station: prepared for Public Service of New Hampshire. *NERA Economic Consulting*.

Harrison D, and N Kaufman (2012). Report on the Economic Impacts of the Construction and Operation of Gas-to-Liquids Facilities in U.S. and Canada, *NERA Economic Consulting* (private report prepared for a large energy company).

Harrison D, N Kaufman et al. (2012). Preliminary Economic Analysis of Cooling Water Intake Alternatives at Merrimack Station. *NERA Economic Consulting: Prepared for: Public Service of New Hampshire*.

Harrison D, A Foss, and N Kaufman (2011). Environmental and Economic Impacts of the First Amendment Supplemental Filing to the 2009 Integrated Resource Plan: prepared for Nevada Power Company. *NERA Economic Consulting*.

Harrison D, N Kaufman et al. (2011). Comments on Economic Issues Related to EPA's Proposed Regulations for Cooling Water Intake Structures at Existing Facilities. *NERA Economic Consulting: prepared for the Utility Water Act Group*.

Harrison D, A Foss and N Kaufman (2011). Environmental Costs and Economic Impacts of the Second Amendment to the 2009 Integrated Resource Plan: prepared for Nevada Power Company. *NERA Economic Consulting*.

Commentaries & Media Publications

Kaufman N. "The US Needs a Playbook for Place-Based Investments in Fossil Fuel Communities." *Columbia SIPA Center on Global Energy Policy*. August 3, 2023.

Kaufman N, C Bataille, G Jain, and S Saha. "The US broke global trade rules to try to fix climate change – to finish the job, it has to fix the trade system." *The Conversation*. September 5, 2023.

Kaufman N, S Saha, and C Bataille. "Green Trade Tensions." *The International Monetary Fund*. June 2023.

Saha S, N Kaufman, G Jain, and C Bataille. "Green Gridlock: How to Fix the U.S.-EU Disconnect on Climate." *Foreign Affairs*. April 25, 2023

Kaufman N and AS Corbeau. "The Battle for the US Hydrogen Production Tax Credits." *Columbia SIPA Center on Global Energy Policy*. April 17, 2023.

Kaufman N. "Economists Can Be Helpful in the Era of Green Industrial Policy." *Columbia SIPA Center on Global Energy Policy*. March 7, 2023.

Kaufman N, C Bataille, G Jain, and S Saha. "As US-EU trade tensions rise, conflicting carbon tariffs could undermine climate efforts." *The Conversation*. January 23, 2023

Kaufman N. "Should the Inflation Reduction Act End the Dream of a National Carbon Price?" *Columbia SIPA Center on Global Energy Policy*. January 26, 2023.

Kaufman N. "Dear Republicans: Innovation isn't climate policy." *The Hill*. January 30, 2020.

Kaufman N. "Dear 2020 Democrats, if you want to slow climate change, carbon pricing is a necessity." *USA Today*. September 5, 2019.

Sivaram V and N Kaufman. "Updating clean energy tax credits could help commercialize new tech." *Axios Expert Voices*. June 3, 2019.

Kaufman N. "Leading Economists Offer 5 Carbon Tax Recommendations: 3 1/2 are Basic Principles of Economics." *Columbia SIPA Center on Global Energy Policy*. January 16, 2019.

Kaufman N. "Oil industry and climate activists agree on one solution: a carbon tax." *The Hill*. July 23, 2018.

Kaufman N. "Putting a price on vehicle emissions is better policy than it seems." *Columbia SIPA Center on Global Energy Policy*. August 10, 2018.

Kaufman N. "With New Jersey Poised to Slash Greenhouse Gas Emissions, A National Plan Could Show the Way." *World Resources Institute*. September 21, 2017.

Kaufman N. "Why the Social Cost of Carbon Is Critical for America to Make Sound Policies." *World Resources Institute*. March 17, 2017.

Kaufman N, R Gasper, and K Igusky. "U.S. Chamber of Commerce's Energy Institute Misleads on Climate Action Costs: 3 Things to Know." *World Resources Institute*. April 26, 2017.

Kaufman N. "Heritage Foundation Gets It Wrong on Costs and Benefits of Climate Action." *World Resources Institute*. March 28, 2017.

Kaufman N. "Republican-Proposed 'Carbon Dividend' Is a Great Sign of Progress." *World Resources Institute*. February 10, 2017.

Tomkins, C. Forbes, K Levin, and N Kaufman (2017). "4 Irrefutable Truths About Climate Change Science." *World Resources Institute*. January 31, 2017.

Kaufman N. "No Evidence for Scott Pruitt's Claims that U.S. Clean Power Plan Will Make Electricity Unaffordable." *World Resources Institute*. January 19, 2017.

Kaufman N. "Help for Coal Country with a Carbon Fee?" *Charleston Gazette-Mail*. April 8, 2016.

Kaufman N. "A Climate Change Policy That Benefits the Poor." *The Huffington Post*. October 23, 2016.

Kaufman N. "Carbon Tax vs. Cap-and-Trade: What's a Better Policy to Cut Emissions?" *World Resources Institute*. March 1, 2016.

Kaufman N. "A Carbon Price Will Reduce Emissions More than Computer Models Predict." *World Resources Institute*. January 13, 2016.

Kaufman N. "How Critics Try (and Fail) to Attack Carbon Pricing." *World Resources Institute*. November 25, 2015.

Kaufman N. "We Benefit from Life Insurance, So Why Not Climate Insurance?" *The Energy Collective*. January 6, 2015.

Kaufman N. "Achieving DoE's SunShot Goals Could Dramatically Reduce the Costs and Benefits of EPA's Climate Rule," *The Energy Collective*. November 4, 2015.

Publications for which I served as a Primary Editor

Larsen J, S Mohan, P Marsters, and W Herndon (2018). Energy and Environmental Implications of a Carbon Tax in the United States, *Columbia SIPA Center on Global Energy Policy*. Edited by Noah Kaufman. July 2018.

Rosenberg J, E Toder, and C Lu (2018). Distributional Implications of a Carbon Tax, *Columbia SIPA Center on Global Energy Policy*. Edited by Noah Kaufman. July 2018.

Diamond J and G Zodrow (2018). The Effects of Carbon Tax Policies on the US Economy and the Welfare of Households, *Columbia SIPA Center on Global Energy Policy*. Edited by Noah Kaufman. July 2018.

SELECTED PRESENTATIONS

Kaufman, Noah, and Adele Morris (2019). The Risk of Fiscal Collapse in Coal-Reliant Communities. *Brookings Institution 8th Annual Municipal Finance Conference*. Washington D.C. July 2019.

Kaufman, Noah (2019). The Next Generation of Federal Clean Electricity Tax Credits. *The Next Generation of Clean Electricity Tax Credits, organized by Columbia SIPA Center on Global Energy Policy*. Washington D.C. June 2019.

Kaufman, Noah (2019). Impacts of the Energy Innovation & Carbon Dividend Act. *10th annual Citizens' Climate International Conference, organized by Citizens' Climate Lobby*. Washington D.C. June 2019.

Kaufman, Noah (2019). Pricing Carbon in the United States. *EPRI's 22nd Energy and Climate Research Seminar, organized by the Electric Power Research Institute*. Washington DC. May 2019.

- Kaufman, Noah (2018). Emissions, Energy and Economic Implications of the Curbelo Carbon Tax Proposal. *Congressman Curbelo and Carbon Tax Policy, organized by the Columbia SIPA Center on Global Energy Policy*. Washington DC. July 2018
- Kaufman, Noah (2017). The long-term outlook: pathways to net-zero emissions. *Oil and gas in a carbon-constrained world: perspectives, challenges, and opportunities, organized by the United Nations Environment and IPIECA*. Paris, France. April 2017.
- Kaufman, Noah (2017). Climate Policy and the Economy. *A Bipartisan Climate Change Solution, organized by Johns Hopkins University SAIS*. Washington DC. March 2017.
- Kaufman, Noah (2017). The Realities of Moving Forward: Embracing Tomorrow – Resources and Collaborations. *National Energy Conference 2016, organized by West Virginia University College of Law*. Morgantown, WV. April 2016.
- Kaufman, Noah (2017). National Mid-Century Strategies. Can the United States Achieve a Low Carbon Economy by 2050?, *The Environmental and Energy Study Institute*. Washington D.C. March 2016.
- Kaufman, Noah (2010). The Bias of Integrated Assessment Models that Ignore Climate Catastrophes. *The World Congress of Environmental and Resource Economists*. Montreal, Canada. July 2010.

OTHER AFFILIATIONS

U.S. Department of the Treasury. External advisor. Climate-related Financial Risk Advisory Committee. 2022 to present.

Bezos Earth Fund. External fellow. 2022 to present.