MEREDITH FOWLIE Agricultural and Resource Economics, UC Berkeley

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Current Appointments

2021-present	Professor, Department of Agricultural and Resource Economics University of California, Berkeley
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2021-present	Co-director of the NBER's Environment and Energy Economics Program
2020-present	Faculty Director, Energy Institute at Haas
2015-present	Class of 1935 Endowed Chair in Energy
2014-present	J-PAL Affiliate
2014-present	Center for Global Action (CEGA) Affiliate.
2013-present	Research Associate, National Bureau of Economic Research
2010-present	Affiliated Faculty, Energy and Resources Group, UC Berkeley

Previous Appointments

2013-2021	Associate Professor (with tenure), Agricultural and Resource Economics University of California, Berkeley.
2009-2013	Assistant Professor of Agricultural and Resource Economics, University of
2008-2013	California, Berkeley
2008-2013	Faculty Research Fellow, National Bureau of Economic Research Assistant Professor of Economics and Public Policy, University of Michigan
Education	

Education

Ph.D.	Agricultural and Resource Economics, UC Berkeley, 2006
M. Sc.	Environmental Economics, Cornell University, 2000
B.Sc.	International Agriculture and Development, Cornell University, 1997

Selected Advisory and Editorial Board Positions:

Associate Editor, Review of Environmental Economics and Policy
Chair, California Independent Emissions Market Assessment Committee
Member, Environmental Defense Economics Advisory Council
Advisory Council, Brookings Institution Center on Regulation and Markets
Editorial Board, Journal of the Association of Environment and Resource Economists, 2014-2023
Editorial Board, American Economic Journal: Economic Policy, 2015-2022

RESEARCH PUBLICATIONS

"Wildfire Insurance, Information, and Self-Protection" (with Judson Boomhower and Andrew Plantinga). *AEA Papers and Proceedings*. 2022. 113: 310-15.

"How Does the US Price Carbon? How Could We Price Carbon?" (with Joe Aldy, Dallas Burtraw, Carolyn Fisher, Rob Williams and Maureen Cropper). *Journal of Benefit-Cost Analysis.* 13(3), 310-334, November 2022

"<u>Mitigating Emissions Leakage in Incomplete Carbon Markets</u>" (with Mar Reguant). *Journal of the Association of Environmental and Resource Economists.* 2022. Vol. 9: No. 2. Pages 307-343.

"<u>Default Effects and Follow-on Behavior: Evidence from an Electricity Pricing Program</u>" (with Catherine Wolfram, Patrick Baylis, C. Anna Spurlock, Annika Todd, and Peter Cappers). *Review of Economic Studies*. 2021. Vol. 88, Issue 6, Pages 2886–2934

"The Economics of Energy Efficiency in Developing Countries" (with Robyn Meeks). *Review of Environmental Economics and Policy.* 2021. Vol. 111.

"Border Carbon Adjustments When Carbon Intensity Varies Across Producers: Evidence from California". *American Economic Review Papers and Proceedings.* (with Mar Reguant and Claire Peterson). 2021. Vol 111: Pages 401-405.

"Co-Benefits and Regulatory Impact Analysis: Theory and Evidence from Federal Air Quality Regulations" (with Joseph Aldy, Mary Evans, Matthew Kotchen, Meredith Fowlie, Arik Levinson, and K. Palmer). 2020. *Environmental and Energy Policy and the Economy*. 2021. Vol. 2.

"Climate Policy, Environmental Justice, and Local Air Pollution" (with Reed Walker, and David Wooley). **Brookings Economic Studies Program,** October, 2020.

"Deep Flaws in a Mercury Regulatory Analysis" (with Joseph Aldy, Matthew Kotchen, Mary Evans, Arik Levinson, and Karen Palmer). *Science.* 2020 Apr 17;368(6488).

"Bringing Satellite-Based Air Quality Estimates Down to Earth" (with Edward Rubin and Reed Walker) *American Economic Review Papers and Proceedings*. 2019 109, 283-288.

"Solar Microgrids and Remote Energy Access: How Weak Incentives Can Undermine Smart Technology" (with Yashraj Khaitan, Catherine Wolfram, and Derek Wolfson) *Economics of Energy and Environmental Policy*. 2019. 8(1):33:49.

"Market-based Emissions Regulation when Damages Vary Across Sources: What are the Gains from Differentiation?" (with Nicholas Muller). *Journal of the Association of Environmental and Resource Economists*. 2019. 6(3), 593-632

"Challenges in the Measurement of Leakage Risk," (with Mar Reguant). *American Economic Review Papers and Proceedings*, 2018, 108:124-29.

"Do Energy Efficiency Investments Deliver? Evidence from the Weatherization Assistance Program," (with Michael Greenstone and Catherine Wolfram). *Quarterly Journal of Economics*, 2018, 133(3): 1597–1644.

"Location, Location, Location: The Variable Value of Renewable Energy and Demand-side Efficiency Resources." (with Duncan Callaway and Gavin McCormick). *Journal of the Association of Environmental and Resource Economists*. 2018. 5(1), 39-75.

"Influence of Acceleration Tradeoffs on CO2 Emissions and Costs of Fuel Economy and Greenhouse Gas Regulations" (with Kate Whitefoot and Steven Skerlos). *Environmental Science and Technology*. 2017. 51(18):10307-10315.

"Reforming the Federal Coal Leasing Program" (with Gillingham, K., J. Bushnell, M. Greenstone, C. Kolstad, A. Krupnick, A. Morris, R. Schmalensee, J. Stock). *Science*, 2016, 354(6316): 1096-1098.

"Market-based Environmental Regulation and the Evolution of Market Structure" (with Stephen Ryan and Mar Reguant). *Journal of Political Economy*, 2016, 12(1): 249-302.

"Are the Non-Monetary Costs of Energy Efficiency Investments Large? Understanding Low Takeup of a Free Energy Efficiency Program," (with Michael Greenstone and Catherine Wolfram), **American Economic Review Papers and Proceedings**, May 2015.

"An Economic Perspective on the EPA's Clean Power Plan," with Lawrence Goulder and Matthew Kotchen, (lead authors); James Bushnell, Lucas Davis, Michael Greenstone, Charles Kolstad, Christopher Knittel, Robert Stavins, Michael Wara, and Frank Wolak. *Science*, 2014, Vol. 346 (November): 815-816.

"Distributing Pollution Rights in Cap-and-Trade Programs: Are Outcomes Independent of Allocation?" (with Jeffrey Perloff). *Review of Economics and Statistics*, 2013, 95(5).

"The Economics of Solar Energy" (with Erin Baker, Derek Lemoine, and Stanley Reynolds). *Annual Review of Resource Economics*, 2013, Vol. 5: 387-426.

"What Do Emissions Markets Deliver and to Whom? Evidence from Southern California's NOx Trading Program" (with Stephen P. Holland and Erin Mansur). *American Economic Review*, 2012, 102(2): 965-93.

"Sacred Cars? Cost-Effective Regulation of Stationary and Non-stationary Pollution Sources" (with Christopher Knittel and Catherine Wolfram). *American Economic Journal: Economic Policy*, 2012, 4(1): 98-126.

"Emissions Trading, Electricity Industry Restructuring, and Investment in Pollution Control." *American Economic Review*, 2010, 100(3):837-83.

"Incomplete Environmental Regulation, Imperfect Competition, and Emissions Leakage." *American Economic Journal: Economic Policy*, 2009, 1(2): 72-112.

"Demand Side Management and Energy Efficiency Revisited" (with Maximilian Auffhammer and Carl Blumstein). *The Energy Journal*, 2008, 29(3): 91-104.

"Public Goods and Private Interests: Understanding Non-Residential Demand for Green Power" (with Edward Holt and Ryan Wiser). *Energy Policy*. 29(13):1085-1097. November 2001.

Book Chapters, Reports, Monographs

"Annual Report of the Independent Emissions Market Advisory Committee" (with Dallas Burtraw, Danny Cullenward, Brian Holt, Katelyn Roedner, Ross Brown). 2023.

"Paying for Electricity in California: How Residential Rate Design Impacts Equity and Electrification" (with Severin Borenstein and Jim Sallee) Next 10 Foundation, September 2022.

"Annual Report of the Independent Emissions Market Advisory Committee" (with Dallas Burtraw, Danny Cullenward, Brian Holt, Katelyn Roedner, Ross Brown). 2022.

"Annual Report of the Independent Emissions Market Advisory Committee" (with Dallas Burtraw, Danny Cullenward, Brian Holt, Katelyn Roedner, Ross Brown). 2021.

"Designing Electricity Rates for an Equitable Energy Transition" (with Severin Borenstein and Jim Sallee), February 2021.

"Annual Report of the Independent Emissions Market Advisory Committee" (with Dallas Burtraw, Ann Carlson, Danny Cullenward, Jennifer Kropke). 2020.

"Annual Report of the Independent Emissions Market Advisory Committee." (with Dallas Burtraw, Ann Carlson, Danny Cullenward, Quentin Foster). 2019.

Aldy, Joseph, Matthew Kotchen, Mary Evans, Meredith Fowlie, Arik Levinson, Karen Palmer. 2019. E-EEAC Report on the Proposed Changes to the Federal Mercury and Air Toxics Standards.

"Annual Report of the Independent Emissions Market Advisory Committee." (with Dallas Burtraw, Ann Carlson, Danny Cullenward, Quentin Foster). 2018.

"E-EEAC Report on the Proposed Changes to the Federal Mercury and Air Toxics Standards" (with Joseph Aldy, Matthew Kotchen, Mary Evans, Meredith Fowlie, Arik Levinson, Karen Palmer). 2019.

"Measuring Leakage Risk" with Mar Reguant, and Stephen Ryan. 2016, Report for the California Air Resources Board.

"Updating the Allocation of Greenhouse Gas Emissions Permits in a Federal Cap-and-Trade Program." In Don Fullerton and Catherine Wolfram, ed. *The Design and Implementation of U.S. Climate Policy*, University of Chicago Press. 2012.

"The Environment and Competition in Electricity in the USA and the UK: The Impact of Restructuring on CO₂ Emissions." Oxford Institute for Energy Studies Monograph EV7. 1999.

Selected Research Grants

2021-2023	Co-principal investigator: Alfred P. Sloan Foundation, The Berkeley Initiative on Equity in Energy and Environmental Economics. UCB Award ID: 051311-001 (with Reed Walker)
2020-2022.	Co-principal investigator: J-PAL North America, "Exploring Bill Affordability for Low Income Electricity Customers in California" (with Jesse Buchsbaum).
2020-2021	Co-principal Investigator: US Environmental Protection Agency. "Retrospective Analysis Retrospective Analysis of Indirect Air Quality Benefits from Power Sector Emissions Reductions" (with Ed Rubin).
2020-2023	Co-principal Investigator: UCB Award. "Mitigating and Managing Extreme Wildfire Risk in California" (with Charles Jones, Judson Boomhower, Duncan Callaway, Andrew Plantinga)
2019-2021	Co-principal Invastigator: Next 10. "Why are High Electricity Prices a Problem for Climate Change?. (with Severin Borenstein and James Sallee).
2019-2021	Co-Principal Investigator: Energy and Economic Growth Program "Sustainable Access to Reliable Energy Services: What Role for Energy Efficiency and Storage?" (with Jayendran Venkataswaran).
2016-2017	Co-Principal Investigator: International Growth Center:" "Smart Meters for Promoting Energy Efficiency in Rural India" (with Catherine Wolfram).
2015-2017	Co-principal Investigator: Alfred P. Sloan Foundation Grant for NBER program to support pre-doctoral fellowships in energy economics (with Ryan Kellogg).
2014-2016	Co-principal Investigator: US AID DIV. "Electrifying India Intelligently- Bringing Smart Grids to Rural India" (with Eric Brewer, Yashraj Khaitan, Edward Miguel, and Catherine Wolfram).
2013-2015	Co-principal Investigator: "Measuring and monitoring potential cap-and-trade program-related greenhouse gas emissions leakage in emissions-intensive, trade-exposed industries" (with Wayne Gray, Joshua Linn, Richard Morgenstern, Mar Reguant, Stephen Ryan).
2011-2013	Co-Principal Investigator: "Reconcilable Differences? Examining the Gap between Engineering Projections and Ex-Post Realized Gains from Energy Efficiency Investments" (with Catherine Wolfram), BECI Innovation Seed Fund in Energy and Climate Research.

2010-2012	Co-Principal Investigator: "Reducing Energy Consumption and Greenhouse Gas Emissions through Energy-Efficiency Retrofits: Evidence from Low-Income Households" (with Michael Greenstone and Catherine Wolfram), funded by the Alfred P. Sloan Foundation.
2010-2012	Co-Principal Investigator: "Smart Grid and Dynamic Pricing: Large-Scale Demonstration Projects" (with Catherine Wolfram), funded by the Department of Energy.
2010-2011	Co-Principal Investigator: "Randomized Encouragement Design Analysis of the

Co-Principal Investigator: "Randomized Encouragement Design Analysis of the DOE Weatherization Assistance Program" (with Catherine Wolfram), funded by the Department of Energy

Co-Principal Investigator: "Market-based Environmental Regulation of Industry: 2009-2011 An Empirical Approach" (with Stephen Ryan), NSF Grant SES-0922401.

Visiting Positions

Federal Reserve Bank of San Francisco (2022) Kleinman Center for Energy Policy, University of Pennsylvania (2022) Vancouver School of Economics (2021) University of Zurich and ETH (2018)

Referee service

American Economic Journal: Economic Policy, American Economic Journal - Applied Economics, American Economic Review, American Journal of Agricultural Economics, B.E. Journals in Economic Analysis & Policy, Climatic Change, Climate Policy, Ecological Applications, The Energy Journal, Energy Policy, Environment Research Letters, European Economic Review, International Journal of Environmental Research and Public Health, Journal of Agricultural and Resource Economics, Journal of the Association of Environmental and Resource Economists, Journal of Economic Literature, Journal of the European Economic Association, Journal of Environmental Economics and Management, Journal of Industrial Economics, Journal of Political Economy, Journal of Public Economics, Journal of Public Economic Theory, Operations Research, Proceedings of the National Academy of Sciences, Quarterly Journal of Economics, RAND Journal of Economics, Resource and Energy Economics, Review of Economics and Statistics, Review of Economic Studies, Review of Environmental Economics and Policy, Science.