

**MEREDITH L. FOWLIE**  
**Agricultural and Resource Economics, UC Berkeley**

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**Current Appointments**

2021-present Professor, (with tenure), Agricultural and Resource Economics University of California, Berkeley  
2020-present Faculty Co-Director, Energy Institute at Haas  
2015-present Class of 1935 Endowed Chair in Energy  
2013-present Associate Professor (with tenure), Agricultural and Resource Economics University of California, Berkeley.  
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**

2009-2013 Assistant Professor of Agricultural and Resource Economics, University of California, Berkeley  
2008-2013 Faculty Research Fellow, National Bureau of Economic Research  
2006-2009 Assistant Professor of Economics and Public Policy, University of Michigan

**Degrees**

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

**Current Editorial Positions and Professional Service (Selected)**

Member, Editorial Board, *American Economic Journal: Economic Policy*  
Associate Editor, *Review of Environmental Economics and Policy*  
Member, California Independent Emissions Market Assessment Committee  
Member, Advisory Board, NBER Energy and Environmental Economics  
Member, Environmental Defense Economics Advisory Council  
Member, External Environmental Economics Advisory Committee, US EPA  
Advisory Council, Brookings Institution Center on Regulation and Markets  
Member, Scientific Committee, Chaire Economie du Climat, Paris Dauphine

## RESEARCH

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"Mitigating Emissions Leakage in Incomplete Carbon Markets" (with Mar Reguant). Conditionally accepted, *Journal of the Association of Environmental and Resource Economists*.

"Border Carbon Adjustments When Carbon Intensity Varies Across Producers: Evidence from California" (with Mar Reguant). Forthcoming in *American Economic Review Papers and Proceedings*.

"Default Effects, Follow-on Behavior and Welfare in Residential Electricity Pricing Programs" (with Peter Cappers, Patrick Baylis, Annika Todd, Anna Spurlock, and Catherine Wolfram). Forthcoming in the *Review of Economic Studies*.

"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 CO<sub>2</sub> 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 Take-up 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 NO<sub>x</sub> 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, 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 CO<sub>2</sub> Emissions.” Oxford Institute for Energy Studies Monograph EV7. 1999.

### **Grants**

2020-2022. 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 Alfred P. Sloan Foundation Grant for NBER program to support pre-doctoral fellowships in energy economics. (co-PI, \$724,500)
- 2014-2016 Co-principal Investigator: "Electrifying India Intelligently- Bringing Smart Grids to Rural India" (with Eric Brewer, Yashraj Khaitan, Edward Miguel, and Catherine Wolfram), US AID DIV.
- 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 DOE Weatherization Assistance Program” (with Catherine Wolfram), funded by the Department of Energy
- 2009-2011 Co-Principal Investigator: “Market-based Environmental Regulation of Industry: An Empirical Approach” (with Stephen Ryan), NSF Grant SES-0922401.
- 2008 CLOSUP Policy Research Grant, University of Michigan

**Referee for:** *American Economic Journal: Economic Policy, American Economic Review, American Journal of Agricultural Economics, B.E. Journals in Economic Analysis & Policy, Climate Policy, Ecological Applications, The Energy Journal, Environment Research Letters, International Journal of Environmental Research and Public Health, Journal of Agricultural and Resource Economics, Journal of Applied 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, Review of Economics and Statistics, Review of Economic Studies, Science.*