

MEREDITH L. FOWLIE
Agricultural and Resource Economics, UC Berkeley

243 University Hall
Berkeley CA 94720
(510) 642-4820

Citizenship: Canadian
fowlie@berkeley.edu
<https://www.meredithfowlie.com>

EMPLOYMENT

2015- UC Berkeley Class of 1935 Endowed Chair in Energy,
2013- Associate Professor (with tenure), Agricultural and Resource Economics
2009-2013 Assistant Professor of Agricultural and Resource Economics, University of
 California, Berkeley
2006-2009 Assistant Professor of Economics and Public Policy, University of Michigan

SERVICE AND PROFESSIONAL RESPONSIBILITIES

2020- Faculty Co-Director, Energy Institute at Haas
2018- Member, California Independent Emissions Market Assessment Committee
2018- Member, External Economics Advisory Committee for the U.S. EPA
2018- Member, Advisory Council, Brookings Institution Center on Regulation and
 Markets
2017- Scientific Committee Member, Chaire Economie du Climat
2016- National Bureau of Economic Research (NBER), Environmental and Energy
 Economics Program Steering committee
2016- Associate Editor, *Review of Environmental Economics and Policy*
2012- NBER Research Associate
2011- Faculty Affiliate, Energy and Resources Group

EDUCATION

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

RESEARCH (SELECTED PUBLICATIONS)

"Default Effects and Follow-on Behavior: Evidence from an Electricity Pricing Program" (with Catherine Wolfram, C. Anna Spurlock, Annika Todd, Patrick Baylis, and Peter Cappers). Conditionally accepted, *Review of Economic Studies*.

"Deep Flaws in a Mercury Regulatory Analysis" (with Joseph Aldy, Matthew Kotchen, Mary Evans, Arik Levinson, and Karen Palmer) *Science*. April 10, 2020.

"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 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 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.

SELECTED WORKING PAPERS

“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 Karen Palmer). RFF Working Paper 20-12, 2020.

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

“Rethinking Energy Efficiency in the Developing World.” (with Robyn Meeks). Resubmitted to the *Review of Environmental Economics and Policy*.

GRANTS

- | | |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 Investigator: 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). |
| 2015-2020 | Alfred P. Sloan Foundation Grant for NBER program to support pre-doctoral fellowships in energy economics. (co-PI 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: California Air Resources Board. “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: BECI Innovation Seed Fund in Energy and Climate Research. “Reconcilable Differences? Examining the Gap between Engineering Projections and Ex-Post Realized Gains from Energy Efficiency Investments” (with Catherine Wolfram).
- 2010-2012 Co-Principal Investigator: Alfred P. Sloan Foundation . “Reducing Energy Consumption and Greenhouse Gas Emissions through Energy-Efficiency Retrofits: Evidence from Low-Income Households” (with Michael Greenstone and Catherine Wolfram).
- 2010-2012 Co-Principal Investigator: Department of Energy. “Smart Grid and Dynamic Pricing: Large-Scale Demonstration Projects” (with Catherine Wolfram).
- 2010-2011 Co-Principal Investigator: Department of Energy. “Randomized Encouragement Design Analysis of the DOE Weatherization Assistance Program” (with Catherine Wolfram).
- 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

Past Service (selected)

Conference Committee, Association of Resource and Environmental Economics, 2013-2015

Board Member, Association of Resource and Environmental Economics, 2014- 2017.

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, Nature, 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.*