

#### KAREN PALMER

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January 25, 2023

#### Education:

Boston College, Economics

Dissertation: A New Test for Cross-Subsidies in Regulated Industries with
Application to a Local Telecommunications Monopoly.

Brandeis University, Economics, magna cum laude

Ph.D., 1990

B.A., 1981

## Areas of Specialization:

Environmental Regulation, Electricity Economics, Cap and Trade Design, Public Utility Regulation, Renewable Sources of Electricity, Energy Efficiency

## Professional Experience:

Senior Fellow, Resources for the Future	2010 – present
Director, Future of Power Initiative, Resources for the Future	2018 - present
Research Director, Resources for the Future	2012 - 2017
Associate Director, Center for Climate and Electricity Policy, Resources for the	
Future	2009 - 2014
Darius Gaskins Senior Fellow, Resources for the Future	2005 - 2009
Senior Fellow, Resources for the Future	1998 - 2005
Fellow, Resources for the Future, Washington, DC	1989 – 1998
Economist, Office of Economic Policy, Federal Energy Regulatory	1996 – 1997
Commission, Washington, DC	
Consultant, PMA Communications Inc., Boston, MA	1987
Consultant, Interindustry Service, Data Resources Inc., Lexington, MA	1986
Economist, Interindustry Service, Data Resources Inc., Lexington, MA	1981 – 1985

## Professional Activities and Awards:

Immediate Past President, Association of Environmental and Resource	
Economists	2023
President, Association of Environmental and Resource Economists	2021-2022
Member, National Academies Committee on the Future of the US Electric	2019-2021
System	
Member, Future Power Market Forum Advisory Group, Johns Hopkins and	2020 – present
Columbia Universities	2019 - present
Member, Harvard Electric Policy Group	2018
Elected Fellow of the Association of Environmental and Resource Economists	2018 - 2020
Member, US EIA Electricity Pricing Working Group	2017 - 2018
Member, Scientific Advisory Committee, Solutions for Energy, Air, Climate	2017 2010
and Health Center (SEARCH), Yale and Johns Hopkins	2016 - 2017
Participant, Stanford Energy Modeling Forum 32, Inter-Model Comparison of US	2010 – 2017

Greenhouse Gas Reduction Policies  Member, American Economic Association Committee on Government Relations	2016 – 2020
Public Utility Research Center Distinguished Service Award	2014
Vice President-Government, US Association for Energy Economics Council	
Member, Research Advisory Board, American Council for an Energy Efficient	2014 - 2019
Economy  Floated Marshan US Association for Energy Foograpies Council	2012
Elected Member, US Association for Energy Economics Council	2013
Member, Editorial Board, Economics of Energy and Environmental Policy	2011 – present
Member, Advisory Council, Center for Climate and Energy Decision Making, Engineering and Public Policy Department, Carnegie Mellon University	2011 – 2020
Member, Environmental Economics Advisory Committee, Science Advisory	2009 - 2014
Board, US Environmental Protection Agency	
Member, RGGI Advisory Group, New York State Energy Research and	2008 - 2014
Development Authority	
Participant, Stanford Energy Modeling Forum 25, Energy Demand and Efficiency	2008 - 2010
Member, National Research Council Panel on the Future of Electricity from	2007 - 2009
Renewables	
Member, Environmental Advisory Council, New York Independent System Operator	2004 – present
Member, National Research Council Committee on Changes in New Source	2004 - 2006
Review Programs for Stationary Sources of Air Pollutants	
Participant, Stanford Energy Modeling Forum 17, Prices and Emissions in a Restructured Electricity Market	1998 - 2001
Member, National Regulatory Research Institute Research Advisory Committee	1998 - 2001
Participant, Center for Clean Air Policy Restructuring and Air Quality Dialogue	1998 - 2001
Participant, Consumer Energy Council of America Research Foundation, Forum	1996 – 1998
on Electricity Restructuring	1006 1000
Participant, Stanford Energy Modeling Forum 15, A Competitive Electricity Industry	1996 – 1998
Reviewer, National Energy Modeling System, Energy Information	1997
Administration	
Secretary, Association of Environmental and Resource Economists	1994 – 1999

## Testimony:

Testimony before the House Energy Subcommittee of the Energy and Natural Resources Committee hearing on Building a 100 Percent Clean Economy: Solutions for the US Power Sector, October 20, 2019

Testimony before the Senate Energy and Natural Resources Committee Hearing on The Clean Energy Standards Act of 2012, May 17, 2012.

Testimony before the Senate Energy and Natural Resources Committee hearing on Costs and Benefits for Consumers and Energy Price Effects Associated with the Allocation of Greenhouse Gas Emissions Allowances, October 21, 2009.

## Journal Publications:

- "RCTs Against the Machine: Can Machine Learning Prediction Methods Recover Experimental Treatment Effects" (with Brian Prest and Casey Wichman), *Journal of the Association of Environmental and Resource Economists* (forthcoming 2023).
- "Price Responsive Allowance Supply in Emissions Markets," (with William Shobe, Dallas Burtraw and Charles Holt), *Journal of the Association of Environmental and Resource Economists* 9(5).
- "Does Energy Star Certification Reduce Energy Use in Commercial Buildings," (with Becka Brolinson and Margaret Walls), *Journal of the Association of Environmental and Resource Economists*, (forthcoming 2023).
- "Co-Benefits and Regulatory Impact Analysis: Theory and Evidence from Federal Air Quality Regulations," (with Joe Aldy, Matthew Kotchen, Mary Evans, Meredith Fowlie and Arik Levinson), *Environmental and Energy Policy and the Economy*, volume 2, National Bureau of Economic Research, (2020).
- "Retrospective Analysis in an Era of Deregulation: Lessons from MATS," (with Mary Evans, Joe Aldy, Matthew Kotchen, Meredith Fowlie and Arik Levinson), *Review of Environmental Economics and Policy*, (2020).
- "Deep Flaws in a Mercury Regulatory Analysis." (with Joseph Aldy, Matthew Kotchen, Mary Evans, Meredith Fowlie and Arik Levinson), Science, published online at 10.1126/science.aba7932 (2020).
- "Letter from America: US States Lead the Way on Climate Policy," (with Kathryne Cleary), *Intereconomics*, 54(5): 319-320 (2019).
- "Changing Baselines, Shifting Margins: How Predicted Impacts of Pricing Carbon in the Electricity Sector Have Evolved over Time," (with Anthony Paul and Amelia Keyes), *Energy Economics* 73:371-379 (2018).
- "Advances in Evaluating Energy Efficiency Policies and Programs," (with Kenneth Gillingham and Amelia Keyes), *Annual Review of Resource Economics* 73: 371-379 (2018).
- "Using Production Incentives to Avoid Emissions Leakage," (with Dallas Burtraw, Anthony Paul and Hang Yin), *Energy Economics* 68 (supplement 1): 45-56 (2017).
- "Is Energy Efficiency Capitalized into Home Prices? Evidence from Three Cities," (with Margaret Walls, Todd Gerarden, and Xian Fang), *Journal of Environmental Economics and Management* 82: 104-124 (March) 2017.
- "Using Information to Close the Energy Efficiency Gap: A Review of Benchmarking and Disclosure Ordinances," (with Margaret Walls), *Energy Efficiency*, (2016). doi:10.1007/s12053-016-9480-5.
- "A Proximate Mirror: Greenhouse Gas Rules and Strategic Behavior under the US Clean Air Act," (with Dallas Burtraw, Anthony Paul and Sophie Pan), *Environmental and Resource Economics* 62(2): 217-241. (2015)
- "Incentive, Margins and Cost Effectiveness in Comprehensive Climate Policy for the Power Sector," (with Anthony Paul and Matt Woerman), *Climate Change Economics* 6(4) (2015).
- "Assessing the Role of Renewable Energy Policies in Landfill Gas Energy Projects" (with Shanjun Li, Han Kyul Yoo, Molly Macauley, and Jhih-Shyang Shih), *Energy Economics* 49 (2015).
- "Limited Attention and the Residential Energy Efficiency Gap" (with Margaret Walls), *American Economic Review Papers and Proceedings* 105(5) (2015).

- "The Costs and Consequences of Clean Air Act Regulation of CO<sub>2</sub> Emissions from Power Plants" (with Dallas Burtraw, Josh Linn and Anthony Paul), *American Economic Review Papers and Proceedings* 104(5): 557-562 (2014).
- "Bridging the Energy Efficiency Gap: Insights from Economic Theory and Empirical Evidence" (with Kenneth Gillingham), *Review of Environmental Economics and Policy* 8(1): 18-38 (2013).
- "Analysis of the Bingaman Clean Energy Standards Proposal," (with Anthony Paul and Matt Woerman), 2014, *Resource and Energy Economics* 36 (1):113-129.
- "Reliability in the US Electricity Industry under New Environmental Regulation" (with Dallas Burtraw, Anthony Paul, Blair Beasley and Matt Woerman) *Energy Policy* 62 (2013): 1078-1091.
- "Putting a Floor on Energy Savings: Comparing State Energy Efficiency Resource Standards" (with Samuel Grausz, Blair Beasley, and Timothy J. Brennan), *Utilities Policy* 25: 43-57 (2013).
- "Energy Efficiency Resource Standards: Economics and Policy" (with Timothy J. Brennan), *Utilities Policy* 25: 58-68 (2013).
- "Reducing US Residential Energy Use and CO<sub>2</sub> Emissions: How Much, How Soon and at What Cost?" (with Ines Lima Azevedo, Granger Morgan and Lester Lave), 2013, *Environmental Science and Technology* 47 (6): 2502–2511.
- "Clean Energy Standards for Electricity: Policy Design Implications for Emissions, Supply, Prices and Regions" (with Anthony Paul and Matthew Woerman), 2013, *Energy Economics* 36: 108-124.
- "Flexible Mandates for Investment in New Technology" (with Dalia Patino-Echeverri and Dallas Burtraw), *Journal of Regulatory Economics*, October 2013, Vol. 44(2): 121-155.
- "Assessing the Energy Efficiency Information Gap: Results from a Survey of Home Energy Auditors" (with Margaret Walls, Hal Gordon and Todd Gerarden), *Energy Efficiency* 6(2): 271 292 (2013).
- "Secular Trends, Environmental Regulations, and Electricity Markets" (with Dallas Burtraw, Anthony Paul and Matt Woerman), 2012, *The Electricity Journal* 25(6): 35-47.
- "Soft and Hard Collars in a Cap-and-Trade System: A Comparative Analysis" (with Harrison Fell, Dallas Burtraw, and Richard D. Morgenstern), 2012, *Journal of Environmental Economics and Management* 64(2): 183-198.
- "Cost-effectiveness and Economic Incidence of a Clean Energy Standard" (with Bryan K. Mignone, Thomas Alfstad, Aaron Bergman, Kenneth Dubin, Richard Duke, Paul Friley, Andrew Martinez, Matthew Mowers, Anthony Paul, Sharon Showalter, Daniel Steinberg, Matt Woerman, Frances Wood), 2012, *Economics of Energy and Environmental Policy* 1(3): 59-86.
- "Climate Policy Design with Correlated Uncertainties in Offset Supply and Abatement Cost" (with Harrison Fell, Dallas Burtraw and Dick Morgenstern), 2012, *Land Economics* 88(3):589-611.

- "Cost Effectiveness of Electricity Energy Efficiency Programs" (with Toshi Arimura, Richard Newell and Shanjun Li), 2012, *The Energy Journal* 33(2): 63 99.
- "Energy Efficiency Program Evaluations: Opportunities for Learning and Inputs to Incentive Mechanisms" (with Noah Kaufman), 2011, *Energy Efficiency* 5(2): 243 268.
- "Price Discovery in Emissions Permit Auctions" (with Dallas Burtraw, Jacob Goeree, Charles Holt, Erica Myers and William Shobe), 2011, Experiments on Energy, the Environment and Sustainability. Series Title: Research in Experimental Economics, Volume 14, R. Mark Isaac, Douglas (ed).
- "Federal Policies for Renewable Electricity: Impacts and Interactions" (with Anthony Paul, Matt Woerman, and Daniel C. Steinberg), 2011, *Energy Policy* 39(7): 3975-3991.
- "The Role of Energy Efficiency Spending in Maryland's Implementation of the Regional Greenhouse Gas Initiative" (with Anthony Paul Matthias Ruth Benjamin F. Hobbs, Daraius Irani-Jeffrey Michaels, Yihsu Chen, Kimberly Ross, Erica Myers), 2010, *Energy Policy* 38(11): 6820-6829, 2010.
- "A Symmetric Safety Valve," (with Dallas Burtraw and Danny Kahn), 2010, *Energy Policy* 38 (9): 4921-4932.
- "An Experimental Analysis of Auctioning Emissions Allowances under a Loose Cap," (with William Shobe, Erica Myers, Charles Holt, Jacob Goeree and Dallas Burtraw), 2010, *Agricultural and Resource Economics Review* 30(2): 162-175.
- "From Regions to Stacks: Spatial and Temporal Downscaling of Power Pollution Scenarios," (with B.F. Hobbs, M.C. Hu, Y. Chen, J.H. Ellis, A. Paul and D. Burtraw), May 2010, *IEEE Transactions on Power Systems* 25(3): 1179-1189.
- "An Experimental Study of Auctions versus Grandfathering to Assign Pollution Permits," (with Jacob Goeree, Charles Holt, William Shobe and Dallas Burtraw), April May 2010, *Journal of the European Economic Association* 8 (2-3).
- "Collusion in Auctions for Emissions Permits: An Experimental Analysis," (with Dallas Burtraw, Jacob Goeree, Charles Holt, Erica Myers and William Shobe), 2009, *Journal of Policy Analysis and Management*, 672-691.
- "Energy Efficiency Economics and Policy" (with Kenneth Gillingham and Richard Newell), 2009, *Annual Review of Resource Economics*, 1:14.1-14.23.
- "Compensation Rules for Climate Policy in the Electricity Sector" (with Dallas Burtraw), *Journal of Policy Analysis and Management* 27(4), 819-847.
- "Economic and Energy Impacts from Participation in the Regional Greenhouse Gas Initiative: A Case Study of the State of Maryland" (with Matthias Ruth, Steven Gabriel, Dallas Burtraw, Anthony Paul, Yihsu Chen, Benjamin Hobbs, Daraius Irani, Jeffrey Michael, Kim Ross, Russell Conklin, Julia Miller), 2008, *Energy Policy* 36:2279-2289.

- "Air Emissions of Ammonia and Methane from Livestock Operations: Valuation and Policy Options" (with Dallas Burtraw, Juha Siikamaki and Jhih-Shyang Shih), 2009, *Journal of the Air and Waste Management Association* 58: 1117-1129.
- "Modeling the Effects of Changes in New Source Review on National SO2 and NOx Emissions from Electricity-Generating Units" (with David Evans, Benjamin Hobbs and Craig Oren), 2008, *Environmental Science and Technology*, 42 (2): 347–353.
- "Simple Rules for Targeting CO<sub>2</sub> Allowance Allocation to Compensate Firms" (with Dallas Burtraw and Danny Kahn), 2006, *Climate Policy*, 6:477 493.
- "The Benefits and Costs of Reducing Emissions from the Electricity Sector," (with Dallas Burtraw and Jhih-Shyang Shih), 2007, Journal of Environmental Management, 83:115 130.
- "CO<sub>2</sub> Allowance Allocation in the Regional Greenhouse Gas Initiative and the Effect on Electricity Investors," (with Dallas Burtraw and Danny Kahn), 2006, *The Electricity Journal*, March.
- "Cost-Effectiveness of Renewable Electricity Policies," (with Dallas Burtraw), 2005, *Energy Economics*, 27(6): 873-894.
- "Retrospective Review of Energy Efficiency Policies," (with Richard Newell and Kenneth Gillingham), *Annual Review of Environment and Resources*, 2006, 31: 161-192.
- "The Environmental Impacts of Electricity Restructuring: Looking Back and Looking Forward," (with Dallas Burtraw), 2005. *Environment & Energy Law & Policy Journal*, Vol 1. No. 1.
- "Economics of Pollution Trading for SO<sub>2</sub> and NO<sub>3</sub>," (with Dallas Burtraw, David A. Evans, Alan Krupnick, and Russell Toth), *Annual Review of Environment and Resources* (2005).
- "Efficient Emission Fees in the U.S. Electric Sector," (with Spencer Banzhaf and Dallas Burtraw), *Resource and Energy Economics*, 26 (3) (2004).
- "Trading Cases: Is Trading Credits in Created Markets a Better Way to Reduce Pollution and Protect Natural Resources?," (with Jim Boyd, Dallas Burtraw, Alan Krupnick, Virginia McConnell, Jim Sanchirico, and Margaret Walls), *Environmental Science and Technology*, Vol. 79, No. 3 (June 2003).
- "Dealing with Electronic Waste: Modeling the Costs and Environmental Benefits of Computer Monitor Disposal," (with Molly Macauley and Jhih-Shyang Shih), *Journal of Environmental Management*, (May 2003).
- "Ancillary Benefits of Reduced Air Pollution in the U.S. from Moderate Greenhouse Gas Mitigation Policies in the Electricity Sector," (with Dallas Burtraw, Alan Krupnick, Anthony Paul, Mike Toman, Cary Bloyd), *Journal of Environmental Economics and Management*, (May 2003).
- "The Determinants of Household Recycling: A Material Specific Analysis of Unit Pricing and Recycling Program Attributes," (with Robin Jenkins, Salvador Martinez and Michael Podolsky), *Journal of Environmental Economics and Management*, (February 2003).

- "The Effect on Asset Values of the Allocation of Carbon Dioxide Emission Allowances," (with Dallas Burtraw, Ranjit Bharvirkar and Anthony Paul), *The Electricity Journal*, (June 2002).
- "Implementing Electricity Restructuring: Polices, Potholes and Prospects," (with Timothy Brennan and Salvador Martinez), *Environmental and Resource Economics*, (June 2002).
- "Cost Effective Reduction of NOx Emissions from Electricity Generation," (with Dallas Burtraw, Ranjit Bharvirkar and Anthony Paul), *Journal of the Air and Waste Management Association* 51: 1476-1489 (October 2001)
- "SO<sub>2</sub> Control by Electric Utilities: What are the Gains from Trade?", (with Dallas Burtraw, Curtis Carlson and Maureen Cropper), *Journal of Political Economy* 108(6): 1292-1326. (December 2000).
- "Upstream Pollution, Downstream Waste Disposal and the Design of Comprehensive Environmental Policies," (with Margaret Walls), *Journal of Environmental Economics and Management* (February 2001).
- "Renewables from Another Angle," (with Dallas Burtraw, James McVeigh, and Joel Darmstadter), 2000. *Electric Perspectives* 25(2): 10-20. See: "Winner, Loser, or Innocent Victim: Has Renewable Energy Performed as Expected?"
- "Winner, Loser, or Innocent Victim: Has Renewable Energy Performed as Expected?" (with Dallas Burtraw, James McVeigh, and Joel Darmstadter), Solar Energy 68(3): 237-255. (2000). Published also as Renewable Energy Policy Project Research Report No. 7, and Resources for the Future Discussion Paper 99-28 (March).
- "Assessing the Impact of Electricity Restructuring on the Environment in Maryland," (with Diane Brown, Matt Kahal, Dallas Burtraw, Julie Ross and Mark Garrison) *EM*, (August 1998).
- "Electricity Restructuring: Environmental Impacts," Forum for Applied Research and Public Policy, 11, (Fall 1997).
- "Environmental Regulation and Innovation: A Panel Data Study," (with Adam Jaffe) *Review of Economics and Statistics*, 79, (1997).
- "The Cost of Reducing Municipal Solid Waste," (with Hilary Sigman and Margaret Walls) *Journal of Environmental Economics and Management*, 34, (June 1997).
- "Optimal Policies for Solid Waste Disposal: Taxes, Subsidies and Standards," (with Margaret Walls) *Journal of Public Economics* (August 1997).
- "Second-Best' Adjustments to Externality Estimates in Electricity Planning with Competition," (with Dallas Burtraw and Alan Krupnick) *Land Economics*, 73, (May 1997).
- "Electricity Restructuring and Regional Air Pollution," (with Dallas Burtraw) *Resource and Energy Economics*, 19 (March 1997).

"How Should an Accumulative Toxic Substance Be Banned?" (with Mike Toman) *Environmental and Resource Economics*, 9, (January 1997).

"The Efficiency of Wholesale versus Retail Competition in Electricity," (with Doug Bohi) *The Electricity Journal*, (October 1996).

"Tightening Environmental Standards: The Benefit-Cost or the No-Cost Paradigm?" (with Wallace Oates and Paul Portney) *Journal of Economic Perspectives*, 9 (1995), pp. 119-132.

"Social Costing of Electricity in Maryland: Effects on Pollution, Investment and Prices," (with Alan Krupnick, Hadi Dowlatabadi and Stuart Siegel) *The Energy Journal*, *16*, (1995), pp. 1-26.

"Comparing the Costs and Benefits of Diversification by Regulated Firms" (with Timothy J. Brennan), *The Journal of Regulatory Economics*, 6 (1994), pp. 112-136.

"Electricity Fuel Contracting: Relationships with Coal and Gas Suppliers" (with Peter Fox-Penner, David Simpson, and Michael Toman), *Energy Policy*, 27 (1993), pp. 1045-1054.

"Implementing Social Costing in the Electric Utility Industry" (with Hadi Dowlatabadi), *Energy and Environment*, 4 (1993), pp. 197-220.

"How Reliably Can Climate Change and Mitigation Policy Impacts on Electric Utilities be Assessed?" (with Hadi Dowlatabadi, Robert Hahn, Raymond J. Kopp, and Diane DeWitt), *Utility Policy*, 1 (July 1993), pp. 261-268.

"A Test for Cross Subsidies in Local Telephone Rates: Do Business Customers Subsidize Residential Customers?," *The RAND Journal of Economics*, 23 (1992), pp. 415 - 431. "Using an Upper Bound on Stand-Alone Cost in Tests of Cross-Subsidy," *Economics Letters*, 35 (1991), pp. 457-460.

"Diversification by Regulated Monopolies and Incentives for Cost-Reducing R&D," *American Economic Review*, 81 (1991), pp. 266-270.

"Sources of Structural Change in the United States, 1963-78: An Input-Output Perspective" (with Stanley J. Feldman and David McClain), *Review of Economics and Statistics*, 69 (1987), pp. 503-510.

"Structural Change in the United States: Changing Input-Output Coefficients" (with Stanley J. Feldman), *Business Economics*, 20 (1985), pp. 39-54.

## **Books and Monographs:**

Alternating Currents: Electricity Markets and Public Policy, (with Timothy J. Brennan and Salvador A. Martinez), Washington, DC RFF Press, 2002.

A Shock to the System: Restructuring America's Electricity Industry, (with Timothy J. Brennan, Raymond J. Kopp, Vito Stagliano, Alan J. Krupnick and Dallas Burtraw), Washington, DC, Resources for the Future, 1996.

*Using Economic Incentives to Regulate Toxic Substances* (with Molly Macauley and Michael Bowes), Washington, DC, Resources for the Future, 1993.

Power Plant Fuel Supply Contracts: The Changing Nature of Long-Term Relationships (with Michael Toman, David Simpson, and Peter Fox-Penner), Arlington, Va., Public Utility Reports, 1992.

#### Other Publications and Reports:

"Calculating Life-Cycle Emissions from Electricity Consumption," (with Brian Prest and Aaron Bergman), Comments to the Department of Energy on the Clean Hydrogen Production Standard, November 2022.

"Defining the Financial Benefits of Renewable Facilities Place in Connection with Low-Income Communities", (with Molly Robertson, Dallas Burtraw, Nicholas Roy, and Maya Domeshek), Comments to the Department of Treasury on the Energy Credit Increase for renewable facilities connected to low-income Communities, November 2022.

"Beyond Clean Energy: The Financial Incidence and Health Effects of the Inflation Reduction Act", (with Nicholas Roy, Maya Domeshek, Dallas Burtraw, Kevin Rennert, Jhih-Shyang Shih and Seth Villaneuva), RFF Report, October 2022.

"State Level Action for Decarbonization: Critical Elements of Effective State Action", (with Maya Domeshek, Thomas Bowen, Christianna Ivanova, and William Shobe), RFF report, September 2022.

"Options for EIA to Publish CO2 Emissions Rates for Electricity," (with Brian Prest, Stu Iler and Seth Villenueva), RFF Report, August 2022.

"Using Prices, Automation and Data to Shape Electricity Demand and Integrate Renewables into the Grid," (with Derek Wietelman and Casey Wichman), RFF workshop report, March 2022.

"Lessons from the Literature for State Carbon Pricing Policy Design," (with Kathryn Cleary and Dallas Burtraw), RFF report, January 2022.

"Leading by Example: Building Performance Standards for Decarbonizing Federal Buildings," (with Veronique Bugnion and Kathryne Cleary), RFF Report, August 2021.

"Waiting for Clarity: How a Price on Carbon Can Inspire Investment," (with Brian Prest and Dallas Burtraw), RFF Report, April 2021.

"What Happened in Texas: Understanding the Blackouts and Drawing Lessons for the Power Grid" (with Kathryne Cleary and Elizabeth Wason), *Resources*, March 2021.

The Future of Electric Power in the United States, National Academies of Sciences, Engineering and Medicine report, February 2020.

"Team of Economists Calls Out Flawed Methods Applied to Justify MATS Rollback" (with Elizabeth Wason), *Resources*, May 2020.

Report on the Proposed Changes to the Federal Mercury and Air Toxics Standards (MATS) (with Joseph Aldy, Matthew Kotchen, Mary Evans, Meredith Fowlie and Arik Levinson), Report of the External Environmental Economics Advisory Committee, December 4, 2019.

Comments to the Federal Regulatory Energy Regulatory Commission (FERC) on the Notice of Proposed Rulemaking (NOPR) for Qualifying Facility Rates and Requirements under the Public Utility Regulatory Policies Act of 1978 (PURPA) (with Jay Bartlett), December 2, 2019.

Benefits and Costs of Power Plant Carbon Emissions Pricing in New York (with Daniel Shawhan and Paul Picciano), RFF report, July 23, 2019.

State Policy Options to Price Carbon from Electricity (with Dallas Burtraw, Anthony Paul and Paul Picciano), RFF report, May 15, 2019.

"Could Blockchain Technology Improve Water, Wastewater and Solid Waste Management in the Oil and Gas Industry?" (with Jhih-Shyang Shih), *Resources 199*, March 2019.

"Fuel Security Concerns in PJM and ISO – Are they Justified?" (with Kathryne Cleary), *Resources* 199, March 2019.

Clean Energy Standards (with Kathryne Cleary and Kevin Rennert), RFF Issue Brief, January 2019.

Market Designs for Clean Energy Transitions: The Role of New Generator Finance (with Jay Bartlett, Heidi Bishop, Kathryne Cleary, Karl Hausker), Event Summary, November 2018.

"Marking a Decade of Climate Policy Cap and Trade Leadership in RGGI" (with Dallas Burtraw), *Resources* 199.

"A Strategic Electricity Generating Reserve: A Solution in Search of a Problem" (with Brian Prest), *Resources* 198.

"Carbon Pricing for US Electricity Sector Now More Effective and Less Expensive" (with Anthony Paul and Amelia Keyes) *Resources* 198.

Economic Approaches to Understanding and Addressing Resilience in the Bulk Power System: A Workshop Summary (with Devin Hartman, Paul Picciano and Daniel Shawhan), RFF Workshop Summary, June 18, 2018.

"Understanding Grid Resilience Implications for Market Design: Beyond the NETL Study (with Devin Hartman and Daniel Shawhan), Opinion Section, *Utility Dive*, April 24, 2018

"The Benefits of Flexible Policy Designs: US Conservation Standards for Appliances (with Joshua Blonz and Benjamin Leard) *Resources* 197.

Comments on the US Department of Energy's Office of Energy Efficiency and Renewable Energy's Request for Information on Energy Conservations Standards Program Design (with Joshua Blonz and Benjamin Leard), RFF Report (2018).

The Future of Power Markets in a Low Marginal Cost World: Workshop Summary (with Amelia Keyes and Dallas Burtraw), RFF Report (2017).

Lessons from Integrated Resource Planning and Carbon Trading for Integrating Carbon Adders into Wholesale Electricity Markets (with Dallas Burtraw and Amelia Keyes), RFF Report (2017)

Expanding the Toolkit: The Potential Role for an Emissions Containment Reserve in RGGI (with Dallas Burtraw, Anthony Paul, Charles Holt and William Shobe), RFF Report (2017).

"Helping States Prepare for the Clean Power Plan: An Interview with Karen Palmer and Anthony Paul" *Resources* 192.

Approaches to Address Potential CO<sub>2</sub> Emissions Leakage under the Clean Power Plan (with Dallas Burtraw, Josh Linn, Anthony Paul, Kristen McCormack, Hang Yin), RFF Report, January 2016.

Comments on EPA's Draft Evaluation, Measurement and Verification Guidance for Demand-Side Energy Efficiency, RFF Report, January 2016.

"Complying with EPA's Clean Power Plan: Policy Options for States," (with Anthony Paul), *Resources* 189.

"What Homeowners Say about Home Energy Audits," (with Margaret Walls), Resources 188.

"Comments to the US Environmental Protection Agency on its Proposed Clean Power Plan," (with Dallas Burtraw, Clayton Munnings, Carolyn Fischer, Anthony Paul, Roberton Williams, Nathan Richardson, and Jhih-Shyang Shih), RFF Report, 2014.

"Renewable Energy," (with Joshua Linn), Entry in *Environmental and Natural Resource Economics: An Encyclopedia*, John Whitehead and Timothy Haab (eds.) (2014)

"Mixing It Up: Power Sector Energy and Regional and Regulatory Climate Policies in the Presence of a Carbon Tax" (with Dallas Burtraw), in *Carbon Taxes and Fiscal Reform: Key Issues Facing US Policymakers*, Ian Parry, Adele Morris, and Roberton Williams(eds), International Monetary Fund, 2015.

"The Effect of Natural Gas Supply on Retail Electricity Prices," (with Dallas Burtraw, Matthew Woerman and Blair Beasley), RFF Issue Brief 12-05, 2012.

"Borrowing to Save Energy: An Assessment of Energy-Efficiency Financing Programs" (with Margaret Walls and Todd Gerarden), RFF Report, 2012.

"Clean Air Regulations and the Electricity Sector" (with Dallas Burtraw, Anthony Paul, Blair Beasley and Matt Woerman), *Resources* 181.

"The Variability of Potential Revenue from a Tax on Carbon" (with Anthony Paul and Matt Woerman), 2012, RFF Issue Brief 12-03.

"Compensation for Electricity Consumer under a U.S. CO<sub>2</sub> Emissions Cap," (with Anthony Paul and Dallas Burtraw), in Reforming *Rules and Regulations*, Vivek Ghosal (ed), MIT Press, 2010.

"Cleaner Electricity and Less of It: The Prospects for Reducing CO<sub>2</sub> Emissions by Requiring Renewable Energy and Energy Efficiency," *Resources* 176 (2010)

"The Evolving SO2 Allowance Market: Title IV, CAIR and Beyond," (with David Evans), RFF Weekly Policy Commentary, July 13, 2009.

Electricity from Renewable Sources: Status, Prospects and Impediments (America's Energy Future Panel on Electricity from Renewables, participating authors). Washington: National Academy of Science, National Academy of Engineering and National Research Council, 2009.

Renewable Energy and Efficiency Modeling Analysis Partnership (REMAP): An Analysis of How Different Energy Models Addressed a Common High Renewable Energy Penetration Scenario in 2025, (with Nate Blair, Thomas Jenkin, James Milford, Walter Short, Patrick Sullivan, David Evans, Elliot Lieberman, Gary Goldstein, Evelyn Wright, Kamala R. Jayaraman, Boddu Venkatesh, Gary Kleiman, Christopher Namovicz, Bob Smith, Ryan Wiser and Frances Wood) National Renewable Energy Lab Technical Report NREL/TP-6A2-45656, September 2009

Compliance Responsibility and Allowance Allocation in a CO<sub>2</sub> Emissions Cap-and-Trade Program for The Electricity Sector in California (with Dallas Burtraw and Anthony Paul), Report to the California Energy Commission, September 30, 2008.

The Role of Energy Efficiency Spending in Maryland's Implementation of the Regional Greenhouse Gas Initiative, A Study Commissioned by the Maryland Department of the Environment and conducted by the Center for Integrative Environmental Research (CIER), (with Ruth, Matthias, Kimberly Ross, Nathan Hultman, Joanna Mauer, Ivan Dario Valencia, Nicolai Herman, Anthony Paul, Erica Myers, Benjamin Hobbs, Daraius Irani, Jeffrey Michael and Yihsu Chen.) University of Maryland, October 2008.

Auction Design for Selling CO<sub>2</sub> Emission Allowances under the Regional Greenhouse Gas Initiative (with Dallas Burtraw, Charles Holt, William Shobe and Jacob Goeree), Report to the New York State Energy Research and Development Authority, October 2007.

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