

VITA: Marilyn A. Brown – January 4, 2022

Current Employment

Regents & Brook Byers Professor of Sustainable Systems
School of Public Policy
Georgia Institute of Technology
Atlanta, GA 30332-0345
404-385-0303; mbrown9@gatech.edu
[Website: http://marilynbrown.gatech.edu/](http://marilynbrown.gatech.edu/)

Affiliations:

- Member, National Academy of Engineering
- Member, National Academy of Sciences
- Co-Director, Climate and Energy Policy Lab
<http://cepl.gatech.edu>
- Co-Director, Master Degree of Sustainable Energy and Environmental Management

Marilyn Brown is a Regents' Professor in the School of Public Policy. She joined Georgia Tech in 2006 after 22 years at Oak Ridge National Laboratory, where she directed several national climate change mitigation studies and became a leader in the analysis and interpretation of energy futures.

Dr. Brown's research examines the clean energy transition – modeling and evaluating the impact of technology advances, supporting policies, and their social, behavioral, and economic consequences, with a special emphasis on equity. Her most recent books include *Empowering the Great Energy Transition* (Columbia University Press, 2019) and *Fact and Fiction in Global Energy Policy* (Johns Hopkins University Press, 2016). She has authored more than 250 publications and contributed to the 2007 Intergovernmental Panel on Climate Change assessment reports for which the IPCC shared the 2007 Nobel Peace Prize. Her work has had significant visibility in the policy arena as evidenced by her briefings and testimonies before state legislative and regulatory bodies, Committees of both the U.S. House of Representatives and Senate, and international organizations.

Dr. Brown co-founded the Southeast Energy Efficiency Alliance and chaired its Board of Directors for several years. She has served on the Boards of the American Council for an Energy-Efficient Economy and the Alliance to Save Energy, and was a commissioner with the Bipartisan Policy Center. She has served on eight National Academies committees and is an Editor of *Energy Policy* and an Editorial Board member of *Energy Efficiency* and *Energy Research and Social Science*. She served two terms (2010-2017) as a Presidential appointee and regulator on the Board of Directors of the Tennessee Valley Authority, the nation's largest public power provider. From 2014-2018 she served on DOE's Electricity Advisory Committee, where she led the Smart Grid Subcommittee.

Previous Employment & Education

Oak Ridge National Laboratory: Director of Engineering Science and Technology Division – 300 staff (2005-2006); Director, Deputy Director and Group Leader (1984-2004) of the Energy Efficiency and Renewable Energy Program (\$130 million annual budget).

Tenured Associate Professor of Geography, Univ. of Illinois (1983-84) (Assistant Professor 1977-83).

Lecturer, Department of Geography and Geology, Ohio Wesleyan University (1976-77).

Teaching Assistant and University Fellow, Ohio State University (1973-76).

Research Analyst, Connecticut Department of Environmental Protection (1973).

Ph.D., The Ohio State University, Geography; minor in Quantitative Methods, 1977 (Dissertation: The Role of Public and Private Agencies in the Diffusion of Innovations).

M.R.P., University of Massachusetts, Regional Planning, 1973.

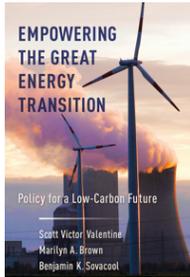
B.A., Rutgers University, Political Science (major), Mathematics (minor), 1971.

C.E.M. (Certified Energy Manager), Association of Energy Engineers, 2003-2021.

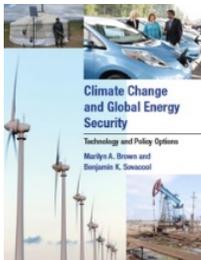
2012 Institute of Nuclear Power Operations, at the Goizuetta Business School at Emory University.

Books and Special Issues of Journals

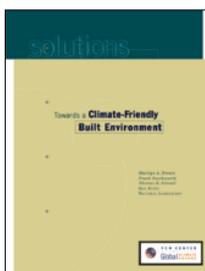
S.V. Valentine, M.A. Brown, and B. K. Sovacool (2019) [Empowering the Great Energy Transition: Policy for a Low-Carbon Future](#) (Columbia University Press) 2019.



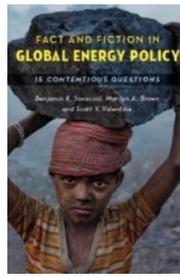
Brown, M.A., & Sovacool, B.K. (2011). [Climate change and global energy security: technology and policy options](#). MIT Press.



Brown, M. A., Southworth, F. & Stovall, T. K. (2005). [Towards a climate-friendly built environment](#). Pew Center on Global Climate Change.



Sovacool, B.K., M.A. Brown, & S.V. Valentine (2016). [Fact and fiction in global energy policy: fifteen contentious questions](#). John Hopkins University Press.



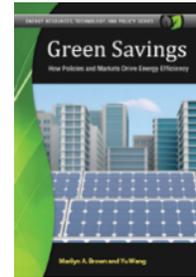
Brown, M.A., F. Southworth, & A. Sarzynski (2008). [Shrinking the carbon footprint of metropolitan America](#). Brookings Institution.



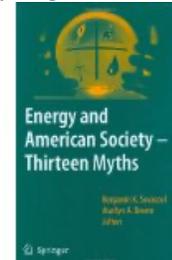
M. A. Brown, W. Short and M. D. Levine (eds.) (2000) [Scenarios for a Clean Energy Future](#). Google Books. + Special Issue of *Energy Policy* in 2001.



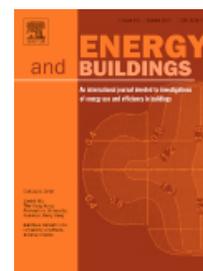
Brown, M.A., & Y. Wang (2015). [Green savings: how policies and markets drive energy efficiency](#). ABC-CLIO.



Sovacool, B.K., & Brown, M.A. (Eds.). (2007). [Energy and American Society—Thirteen Myths](#). Springer.



M. A. Brown and K. Keating (eds) (1989) Special Issue of *Energy and Buildings* devoted to *The Hood River Conservation Project*, 13(1).



Principal technical society memberships, activities and accomplishments:

Member, U.S. Department of Energy's Electricity Advisory Committee, two terms: 2014-2018.

Served on nine committees, panels, and boards of the National Academy of Sciences:

- ✓ Data, Metrics, and Analytic Methods for Assessing Equity Impacts of Surface Transportation Funding Programs, 2021-2024

- ✓ Geographical Sciences Committee, 2016-2019
- ✓ Committee on Urban Sustainability, 2014-2016
- ✓ Board of Energy and Environmental Systems, 2006-2012 (two terms)
- ✓ Panel on Redesigning the Commercial Buildings and Residential Energy Consumption Surveys of the Energy Information Administration, 2010-2012
- ✓ America's Climate Choices, 2008-2011
- ✓ Limiting the Magnitude of Climate Change Panel (Co-chair), 2008-2011
- ✓ America's Energy Choices: Energy Efficiency, 2007-2009
- ✓ Alternatives to the Indian Point Nuclear Plant, 2004-2007.

Ambassador for Clean Energy, Education and Empowerment (C3E), designated by the U.S. Department of Energy in 2012 and announced at the first Clean Energy Ministerial in London, 2012-2021.

U.S. Presidential Appointee (U.S. Senate confirmed): Board of Directors, Tennessee Valley Authority, two terms: 2010-2018.

Member, Advisory Committee, U.S. Department of Energy's Energy Efficiency and Renewable Energy Industrial Technologies Program, 2008-2009.

Elected to the Policy Council, Association for Public Policy Analysis and Management, 2006-2009.

Appointed, National Commissioner on Energy Policy, Bipartisan Policy Center, Washington, DC. 2002-2009.

Member, U.S. Environmental Protection Agency, Board of Scientific Counselors, Office of Research and Development, 1996-2000.

Elected National Councilor of the Association of American Geographers, a 9,000-member organization, 1988-1991 (www.aag.org).

National Science Foundation: Review Panel Member, Geography and Regional Science Division, 1984-1986

Professional Recognition (Honors and Awards)

- [World Citizen Prize in Environmental Performance](#), by the Association for Public Policy Analysis and Management (APPAM) 2021
- Regents' Professor, Georgia State Board of Regents, 2017-2023.
- Election to the National Academies of Science and Engineering, 2020
- "Champion of Energy Efficiency in Industry," American Council for an Energy-Efficient Economy, 2017.
- Alliance to Save Energy "[Pioneer](#)" Award to TVA for its Energy Efficiency Planning Model, 2016
- Brook Byers Chaired Professor in Sustainable Systems, 2014-2023.
- "Who's Who in Sustainability," Atlanta Business Chronicle, 2013.
- Planning Committee, 2016-2018, U.S. Department of State, Sixth Intergovernmental Panel on Climate Change (IPCC).
- Review Editor, 2011-2014, U.S. Department of State, Fifth Intergovernmental Panel on Climate Change (IPCC), *Climate Change 2014: Mitigation of Climate Change*.
- Co-Author Intergovernmental Panel on Climate Change Working Group III Assessment Report on *Mitigation of Climate Change*, Chapter 6. Authors of this report were co-recipients of the 2007 Nobel Peace Prize.
- Southface Energy Institute Award of Excellence "In recognition of exemplary leadership and a lifetime of

advocacy for energy efficiency,” 2010.

- Vice-Chair, 2006, U.S. Department of Energy, U.S. Government Review of the Second Order Draft IPCC Report: *Climate Change 2007: Mitigation of Climate Change*.
- Anderson Medal of Applied Geography, Association of American Geographers, 2003, and 2008 Anderson Medal distinguished lecture.
- Co-recipient, U. S. Department of Energy Research Partnership Award, presented to Southwire Company and the ORNL Superconductivity Program for Electric Systems for the 3M Coated Conductor Development Project, 2001
- Commendation from Energy Secretary Hazel R. O’Leary for publication of “Weatherization Works,” December 1993.
- “Champion of Energy Efficiency,” American Council for an Energy-Efficient Economy, for co-leading the five-laboratory study titled “Scenarios of U.S. Carbon Reductions,” which President Clinton acknowledged as a basis for signing the 1997 Kyoto Protocol, 1998.

Awards from Oak Ridge National Laboratory: (1) co-leading the five-laboratory study titled “Scenarios of U.S. Carbon Reductions,” November 1997, (2) leading the “National Evaluation of DOE’s Weatherization Assistance Program,” July 1993; (3) Citation for Research Excellence in 1989; (4) Significant Event Award in 1997 for the study “Technology Opportunities to Reduce U.S. Greenhouse Gas Emissions,” and (5) Small Business Program Advocate Award 2002.

Corporate Honoree, YWCA Tribute to Women, 1994; Award for Distinguished Contribution to “Science Management and Policy Implementation,” American Women in Science, May 1992; Gold Medal Award issued by the Technology Transfer Society for the best paper published in the 1989-1990 *Journal of Technology Transfer*; Best Paper Award, The 12th Annual Meeting & International Symposium of the Technology Transfer Society, 1987; C. C. Huntington Memorial Award, 1976, an award made periodically by The Ohio State University, Department of Geography to “outstanding graduate students”; University Fellow, The Ohio State University, 1973-77.

Congressional Briefings and Testimonies

Briefing to Assistant Secretary Bruce J. Walker, Office of Electricity, U.S. Department of Electricity, February 20, 2018, on activities of the DOE’s Electricity Advisory Committee’s Smart Grid Subcommittee.

Testimonies to the Florida Senate Committee on Communications, Energy, and Public Utilities and the Florida House Energy & Utilities Subcommittee, on “Renewable Energy in the South,” February 21-22, 2011.

Testimony to the U.S. Senate Environment and Public Works Committee on “Priorities for the Tennessee Valley Authority,” 2010.

Congressional briefing hosted by the American Chemical Society’s Science and Congress Project; Co-hosted by Rep. Gabrielle Giffords (D-AZ) and Rep. Ralph Hall (R-TX), December 15, 2008

Congressional briefing in a Hearing on [“Can a National Renewable Portfolio Standard Increase Energy Security, Reduce Emissions, and Lower Costs,”](#) Sponsored by the Environment and Energy Study Institute, July 11, 2007,

Energy Efficiency Workshop for staff of the U.S. House of Representatives Committee on Energy and Commerce Committee, July 2007.

Testimony to North Carolina Legislative Commission on Global Climate change, “Discussion of the technology options related to global climate change by sector,” April 25, 2006.

Expert Witness on Climate Change Technologies. Testimony before the Energy Subcommittee of the U.S. House of Representatives’ Committee on Science. Hearing on November 6, 2003.

Expert Witness, Testimony before the U.S. Senate Committee on Environment and Public Works. Hearing on “Global Climate Change and Issues Related to Reducing Net Greenhouse Gas Emissions.” May 2001.

Advisory Committees and Boards

Recent/Current Advisory Committees and Boards: Oak Ridge Associated Universities (2021-2014); DOE Electricity Advisory Board, 2014-2018; Member, Research Advisory Council, Electric Power Research Institute, 2010-2012, U.S. Department of Energy Peer Review Committee for the Industrial Technologies Program, 2008-2009; Lawrence Berkeley National Laboratory Energy and Environmental Division, 2009; Natural Resources Defense Council’s Project on Climate Mitigation Modeling, 2008-2009; Pew Center on States’ Committee on “Green Scorecards”, 2008-2009; Harvard University’s Energy Research Committee, 2008-2009.

Selected Past Advisory Committees: University of Kansas, Transportation Research Institute, 2006-2007; World Energy Engineering Congress, 2004-2006; Energy and Environmental Technologies Division, Lawrence Berkeley National Laboratory, 1998-99; Iowa Energy Center (Chair), 1998-99; University of Tennessee’s Energy, Environment and Resources Center, 1996-98; New York State Energy Research and Development Authority, 2000.

Selected Research (Principal investigator on research projects > \$25 million)

PI, 2019-2022, Ray C. Anderson Foundation, “Georgia Carbon Drawdown.”

PI, 2018-2022, Philanthropic gift, “Sustainable Energy and Environmental Management.”

PI, 2016-2020, ORNL, Joint Faculty Appointment

PI, 2017-2018, Natural Resources Defense Council. “Biomass Economics.”

PI, 2015-2017, Energy Foundation. “Energy Efficiency and Clean Energy Jobs.”

PI, 2016-2018, U.S. Department of Energy, Support for Mission Innovation and the Quadrennial Energy Review.

PI, 2006-2018, ORNL, “Core University Liaison” for Georgia Tech; 2006-2016

PI, 2014-2015, Strategic Energy Institute, “Future of the Electric Grid in the Southeast”.

PI, 2013, Southface Energy Institute and Energy Foundation, “Expanded Capacity for Modeling Energy Efficiency in the Southeast”.

Co-PI with Elsa Reichmanis, 2011-2018. National Science Foundation. Integrative Graduate Education and Research Training (IGERT) award to enhance multidisciplinary training in the skills required for conducting research in energy science, technology and policy, with a focus on advanced materials.

PI, 2009-2016, U.S. Department of Energy, “Behaviorally Energy-Efficiency Based Policies”. Uses the National Energy Modeling System in conjunction cost-benefit analysis to evaluate alternative policy options.

PI, 2010-2012, Oak Ridge National Laboratory, “Eastern Interconnection Demand-side Resource Assessment”.

PI, 2009-2011, Energy, Turner and Kresge Foundations, “Integrated Analysis of the Cost and Availability of Supply- and Demand-Side Electricity Resources in the Southeast”.

Co-PI with Jan Youtie, 2008-2009. Georgia Board of Regents, *Energy and Environmental Workforce: Supply and Demand in Georgia*, \$20,000.

PI, 2007-2008, Southeast Energy Efficiency Alliance and Appalachian Regional Commission, *Potential for Energy Efficiency Improvements in the Appalachian Region*.

PI, 2007-2008, Brookings Institution, *Shrinking the Carbon Footprint of Metropolitan America*.

PI, 2007-2008, Sloan Center grant, *Potential Impacts of Energy and Climate Policies on the U.S. Pulp and Paper Industry*.

PI, 2006-2008, U.S. Department of Energy, *Development of a National Strategy for the Deployment of Greenhouse Gas-Reducing Technologies*.

PI, 2005-2006, U.S. Department of Energy, *R&D Portfolio Review of the Multi-agency Climate Change Technology Program*.

PI, Pew Center on Global Climate Change. 2004. *Towards a Climate Friendly Built Environment*.

PI, Cooperative program on technology transfer from National Laboratories with the Education and Research Consortium of the Western Carolinas, 2004-2006.

Co-PI, U.S. Department of Energy. 1996-2001. Two multi-laboratory studies:

- *Scenarios of U.S. Carbon Reductions: The Potential Impact of Energy-Efficient and Low-Carbon Technologies*. President Clinton cited this study as providing the support that enabled the U.S. Administration's support for the U.S. goal for greenhouse gas reductions proposed at the 1997 Kyoto summit on global climate change. https://digital.library.unt.edu/ark:/67531/metadc694703/m2/1/high_res_d/563139.pdf
- *Scenarios for a Clean Energy Future*. When published in November 2000, this was the most detailed scenario analysis of potential U.S. carbon emissions reductions ever funded by the U.S. government. *It provided a foundation of analysis for the U.S. discussions at the 6th Conference of the Parties to the United Nations Framework Convention on Climate Change in the Hague in November 2000.* <https://www.nrel.gov/docs/fy01osti/29379.pdf>

Courses Taught

Energy Policy and Technology (co-listed with Industrial Systems Engineering); Materials for Energy Systems and Energy Policy (cross-listed with Mechanical Engineering); Utility Policy and Regulation; Energy Policy and Markets; Environmental Finance; Economic, Urban, Regional, Environmental, and Social Geography; Statistical Techniques for the Social Sciences; Urban and Environmental Geography Seminars; Social and Environmental Indicators; and Technology Management and Diffusion.

Consulting Activities

RTI International, Design and Evaluation of Demand-Side Management Programs in Abu Dhabi, United Arab Emirates, 2008-2009.

GE-Energy Services, GE Energy Certificate Program in Business Management of Energy Technologies, 2008.

Pew Charitable Trusts, Assessment of past projects and future directions in environmental and climate change areas, 1998.

Faculty Research Development Program, West Virginia University Regional Research Institute, 1994-96.

Evaluation of California demand-side management programs. California Public Utilities Commission and Southern California Edison Company, 1994-95.

Evaluation of U.S. demand-side management programs. London Economics, Ltd., 1993-94; Program evaluation and strategic planning. New York State Energy Research and Development Authority, 1989-96; Cook County State's Attorney's Office, 1984. Testified before the Illinois Public Utility Commission on performance contracting approaches to financing energy efficiency improvements.

Elected Offices, Editorial Boards, and Other Professional Activities

Co-Founder and Chair, Board of Directors, Southeast Energy Efficiency Alliance, 2006-2009.

Commissioner, National Commission on Energy Policy, 2002-2009.

Elected Chair, Energy and Environment Specialty Group, Association of American Geographers, 1986 to 1988

and 1994 to 1996. Elected Director of two other AAG Specialty Groups.

Provided briefings to the President's Council of Economic Advisors, Office of Science and Technology Policy, the Office of Management and Budget, committees of the U. S. House of Representatives and Senate, committees of the National Association of Regulatory Utility Commissioners, and several State Public Utilities Commissions, the New York Independent System Operator, and the North Carolina Commission on Climate Change.

Served on an EPA Advisory Committee overseeing the development of Conservation Validation Protocols (1993) and served as a member of the review panel for EPA's Environmental Technology Initiative (1995).

Co-Editor: Energy and Environment, newsletter of the Energy and Environment Specialty Group, Association of American Geographers, 1991-92 and 1994-96; and Women in Geography, newsletter of the Committee on the Status of Women in Geography, Association of American Geographers, 1983-84. Initiated an Urban Geography Dissertation Competition, which continues to attract nationwide participation. Participated as a member of the Long-Range Planning Committee, Urban Geography Specialty Group, 1985-86. Member of the planning committee for the 1993 National Meeting of the AAG. Member, Publications Committee, Association of American Geographers, 1983-86.

Editorial Boards: Journal of Energy Efficiency, 2008-present; Journal of Technology Transfer, 1997-99 and 2002-2006; Applied Geography Studies, 1996-98; Economic Geography, 1991-95; Home Energy, 1990-95; The Professional Geographer, 1987-90; and Annals of the Association of American Geographers, 1984-87.

Board of Directors, Alliance to Save Energy, 1998-2009; American Council for an Energy-Efficiency Economy, 2001-2009; Home Energy, 1995-2003.

Seminars and Presentations

Seminars and presentations at universities, research institutes, and government agencies in 40 of the U.S. states including: the National Renewable Energy Lab, Los Alamos National Lab, Oak Ridge National Lab, Argonne National Lab, Brookhaven National Lab. the National Academy of Sciences, National Academy of Engineering, Clemson University, Vermont Law School, Vanderbilt University, University of Georgia, Stanford University, Duke University, the University of Alabama, Northern Illinois University, the University of California-Santa Barbara, University of California-Davis, the University of Illinois, Indiana University, the Ohio State University, the University of Iowa, the University of Tennessee, Arizona State University, Pennsylvania State University, Michigan State University, Johns Hopkins University, Rutgers University, the Massachusetts Institute of Technology, Stanford University, University of Central Florida, Texas A&M University, Emory University, and the University of Kentucky.

The impact of my work has been felt across the globe as the result of active international consultations and collaborations conducted in affiliation with universities, research institutes, and government agencies in numerous countries. Many of these affiliations involved visits of several weeks or a month including government workshops, academic lectures, and interviews with local press focused on the importance of implementing policies and technologies to promote a clean energy transition. Consultations were conducted and talks were given at, for example: Oxford University, the Tyndall Center for Climate Change at Newcastle University, Imperial College of London, Warwick University, the Science Policy Research Unit at the University of Sussex, the Paris School of International Affairs, the Potsdam Institute for Climate Impact Research, the University of Groningen, IEA-Paris, and the IEA Center for the Analysis and Dissemination of Energy-Efficient Technologies, Aarhus University, Norwegian University of Science and Technology, Copenhagen University, the Korea Advanced Institute of Science and Technology, the Korea Atomic Energy Research Institute, the University of Kyushu, Nagoya University, City University of Hong Kong, Beijing Institute of Technology, Tianjin University, and the National University of Singapore.

Selected seminars, presentations, videos, and podcasts:

“First Mover Advantages Amid a Clean Energy Boom” 9th
“Geospatial Dimensions of Energy Inefficiency and Equity”
Geographical Science Committee, National Academy of Sciences
(6.11.2020)

International Workshop on Advances in Cleaner Production (IWACP)
Melbourne, Australia (5.26.2020)

“Green Innovation for Sustainable Growth” Global Innovative
Growth Forum, Ministry of Economy and Finance, Republic of Korea
(12.9.2020)

“Empowering the Great Energy Transition While Fossil Fuels are Still
Abundant: The U.S. Challenge,” Oxford University, June 18, 2019,
[https://www.energy.ox.ac.uk/wordpress/wp-
content/uploads/2019/06/Empowering-the-great-energy-transition-
while-fossil-fuels-are-still-abundant-The-U.S.-challenge.pdf](https://www.energy.ox.ac.uk/wordpress/wp-content/uploads/2019/06/Empowering-the-great-energy-transition-while-fossil-fuels-are-still-abundant-The-U.S.-challenge.pdf)

“Vulnerability of U.S. Infrastructure to Coastal Flooding,” National
Academies of Sciences, December 6, 2018.

“EVs + Renewables: A Merger of Complementary Adaptation
Strategies,” Geography 2050: American Geographical Society, Fall
Symposium on Energy Adaptation Strategies, Columbia University,
November 16, 2018.

“Technologies and Policies for a Sustainable Energy Future,” 2017
Energy Infrastructure Symposium, Boston,
November 13, 2017,
[https://cepl.gatech.edu/sites/default/files/attachments/Borealis-11-
13-17%20Brown.pptx](https://cepl.gatech.edu/sites/default/files/attachments/Borealis-11-13-17%20Brown.pptx).

“Energy and Society”, Tyndall Center Assembly Day, Newcastle upon
Tyne, England, September 12, 2017.

“Shifting the Energy Mix in a post-Paris World”, American
Geophysical Union 2016 Fall Meeting, San Francisco, CA, Dec. 13,
2016.

“Progress in Energy and Carbon Management in Large U.S.
Metropolitan Areas,” International Conference on Applied Energy,
Abu Dhabi, UAE, March 30, 2015.

“Smart Grid Technologies and Policies for a Clean Energy
Transition”, Symposium on Energy Transition Challenges, City
University of Hong Kong, May 20, 2014.

“Sustaining the City: Understanding the Role of Energy and Carbon

Podcasts and Videos: 2011-2021

[Podcast about the transition to clean energy technologies](#), with Commissioner Tim Echols on March 13, 2021

[Climate Reporting Master Class](#) March 18, 2021

[Solve Climate by 2030](#) April 9, 2021

[Guiding Principles for Sound Energy Policy, February 10, 2021](#)

[Building Electrification: Politics-Economics-Infrastructure](#) July 15, 2020

[Weather Geek Interview on Drawdown Georgia](#), April 22, 2020

[The Future with a Green New Deal, October 30, 2019.](#)

[Vulnerability of U.S. Energy Infrastructure to Coastal Flooding](#), December 6, 2018.

[Energy Adaptation Strategies](#), American Geographical Society, Nov. 16, 2018.

[Enabling the Great Energy Transition](#), Fries Lecture, October 18, 2018.

[Integrating Distributed Resources into the U.S. Power System](#), November 3, 2017.

“[Is energy efficiency a worthwhile investment?](#)” September, 2016.

“[Made in Kentucky: Energy Efficiency Jobs and Opportunities](#)” 2015.

“[Perspectives on Energy Efficiency](#)” National Press Club, May 2, 2014.

[Technologies and Policies for a Sustainable Energy Future](#). TedX Talk. 2014.

[C3E Women in Clean Energy Panel Discussion](#) 2015.

[C3E Women in Clean Energy on Energy Decarbonization](#) 2016.

Book Debate: [Climate Change and Global Energy Security](#).

[Limiting the Magnitude of Future Climate Change](#). National Academies, 2011.

[Green and Lean Approaches to Sustaining the U.S. Industrial Base](#), Rutgers, 2011.

Dioxide Emissions in Sustainable Development in Major Metropolitan Areas”, ACEEE, Monterey, CA, August 20, 2014.

“Moving Technologies from the Lab to the Marketplace” C3E Women in Clean Energy, MIT, Cambridge, MA, September 20, 2013.

“Demand-side Management Policies and Alternative Futures for the Electricity Sector” UK Energy Research Center Summer School, Warwick University, Coventry, England, June 9, 2013.

“Evaluating a Federal Cogeneration Policy: Could it Strengthen U.S. Competitiveness and Generate Energy Jobs?” *Annual Meeting of the U.S. Clean Heat and Power Association*, October 7, 2011.
https://cepl.gatech.edu/sites/default/files/attachments/BROWN_USCHPA_FINAL.pdf

“Competing Dimensions of Energy Security,” *POLINARES Workshop on Energy Security*, Paris School of International Affairs, June 1, 2011.

“Federalism and Polycentric Governance,” *National Academy of Arts & Sciences Workshop*, Washington, DC, May 20, 2011. <http://www.amacad.org/events/alternativeEnergy/brown.pdf>.

“Setting the Stage for a Low-Energy Building Stock,” *ACEEE Forum*, Washington, DC, March 7, 2011,
<http://www.aceee.org/files/pdf/conferences/30th/building/Brown.pdf>

“Nuclear Energy and the Transition to a Sustainable Energy Future,” *Women in Nuclear Conference*, Oak Ridge National Laboratory, February 8, 2011.

“Renewable Energy in the South,” *Renewable Energy in the South*,” Southeast U.S./Japan Annual Meeting, Nashville, TN, October 18, 2010.

“Science, Society, and Sustainable Economic Growth,” U.S.–European Summit, Washington, DC, September 28, 2010.

“Limiting the Magnitude of Future Climate Change,” National Academy of Engineering Convocation, Washington, DC, April 19, 2010.

“Energy Efficiency in the South,” Congressional briefing sponsored by EESI, Washington, DC, April 12, 2010.

“Shrinking the Carbon Footprint of Metropolitan America,” *Toward Low-Carbon Cities: Understanding and Analyzing Urban Energy and Carbon*, Nagoya, Japan, February 16-18, 2009

“The Role of Energy Efficiency in a Federal Renewable Energy Standard,” EUCI RPS Symposium, Washington, DC, March 27, 2008.

“Including Efficiency: A National Sustainable Energy Portfolio,” Congressional briefing sponsored by EESI, July 11, 2007. http://www.eesi.org/files/Marilyn_Brown.pdf

“Feasible Efficiency Improvements, Real World Constraints, and Carbon Emission Implications,” U.S. House of Representatives Committee on Energy and Commerce’s Workshop on Energy Efficiency. March 2, 2007.

“Energy Efficiency: Progress and Opportunities,” at the Global Climate and Energy Project Symposium at Stanford University, October 1, 2007.

“Towards a Climate-Friendly Built Environment” June 2005, National Press Club, Washington, DC.

I have served on the planning committees for many national and international conferences including the 1989, 1991, 1993, 1995, 1997, and 1999 National Energy Program Evaluation Conferences, the 1991 and 1992 Affordable Comfort Conferences, and the 1994, 1996, and 2010 Summer Study on Energy Efficiency in Buildings organized by the American Council for an Energy-Efficient Economy. I co-chaired the 1998 Summer Study on Energy Efficiency in Buildings, with Helmut Feustel of Lawrence Berkeley National Laboratory.

Selected other presentations: Plenary panelist at the 2006 National Conference on Science, Policy and the Environment, Illinois Energy Forum, International Energy Agency, National Association of Regulatory Utility Commissioners, Electricity Consumers Resource Council, Electric Power Research Institute, and the National Institute of Standards and Technology.

Chair or member of numerous graduate committees while at Georgia Tech.

Masters students advised and their current affiliations (partial list):

Lindsay Averett, Oglethorpe Power
Aline Banboukian, Georgia Tech PhD student
Elise Logan, Booz Allen Hamilton
Nancy McGee, Deloitte
Jess Chandler, EMI Consulting
Matt Cox, The Greenlink Group
Fanny Guezennec, EcoAct Corporation
Elizabeth Noll, Natural Resources Defense Council
Dong-Yeon Lee, Argonne National Laboratory
Cecelia Shuttters, U.S. Green Building Council
Ben Staver, ICF International
Jeff Hubbs, Emory University
Daniel D’Arcy, U.S. Environmental Protection Agency
Usayd Casewit, World Bank
Alyson Laura
Valentina Sanmiguel

PhD students advised: Jess Chandler, Youngsun Baek, Nilgun Atamturk, Joy Wang, Matt Cox, Ben Deitchman, Yu Wang, Anmol Soni, Majid Ahmadi, Xiaojing Sun, Gyungwon Kim, Alexander Smith, Shan Zhou, Yufei Li, Oliver Chapman, Snehal Kale.

Member of PhD Committee: Mohan Taruga (Public Policy), Elena Harari (Public Policy), Diran Soumoni (Public Policy), Caroline Golin (Public Policy), Ben Jordan (Public Policy), Marty Sung (City and Regional Planning), Ji Hyun Kim (Architecture), Dong Gu Choi (Industrial Systems Engineering), Harjeet Johal (Electrical and Computational Engineering), Marcelo Sandoval (Electrical and Computational Engineering), Fei Zhao (Architecture), Brent Weigel (Civil and Environmental Engineering), Anthon Sonnenberg (Civil and Environmental Engineering), Dieudonne Batsy (Montreal Polytechnic), Jenna McGrath (Public Policy), Fikret Atalay (Civil and Environmental Engineering), Cal Abel (Mechanical Engineering), Jan Yunchen (Civil and Environmental Engineering), Hongyang Zou (College of Management and Economics, Tianjin University), Zixing Wang (Industrial and Systems Engineering).

At the University of Illinois Geography Department, I served on the Campus-wide Instructional Computer Use Committee, was a member of the Statistics Program Faculty for three years, and served on the Board of Directors of the Social Science Quantitative Laboratory for six years.

Current or Recent Organizational Memberships

Association of Energy Engineers
Association of American Geographers
Association for Public Policy Analysis and Management

Referee Activities

Reviewed articles and monographs for the following publications: Applied Energy, Urban Studies, Environmental Research Letters, Energy Research and Social Science, Journal of Energy Efficiency, Climate Change, Journal of Regional Studies, Applied Geography, Technology Transfer Journal, Annals of the Association of American Geographers, Science, Energy Policy, Journal of Regional Science, International Regional Science Review, The Professional Geographer, Environment and Planning, Urban Geography, Resource Papers of the AAG, Political Geography Quarterly, Women's Studies International Forum, Journal of Geography, Economic Geography, Geographical Analysis, Applied Psychological Measurement, Urban Studies, Growth and Change, Environmental Science & Technology, Current Opinion in Environmental Sustainability, and Social Science Quarterly.

Reviewed research proposals for: the New York State Energy Authority, the Regional Research Institute of the West Virginia University, DOE, EPA, NIH, NSF, and the Rockefeller Foundation.

Manuscripts under Review by Journals

Marilyn A. Brown, Ranal Tudawe, and Hamilton Steimer, "Carbon drawdown potential of utility-scale solar in the United States: Evidence from a case study of Georgia," *Renewable and Sustainable Energy Reviews*.

Anmol Soni, Marilyn A. Brown, Benjamin K. Sovacool, "Values, actions, and opinions for low-carbon mobility: Assessing public support for Electric Vehicles in the Nordic region" under review.

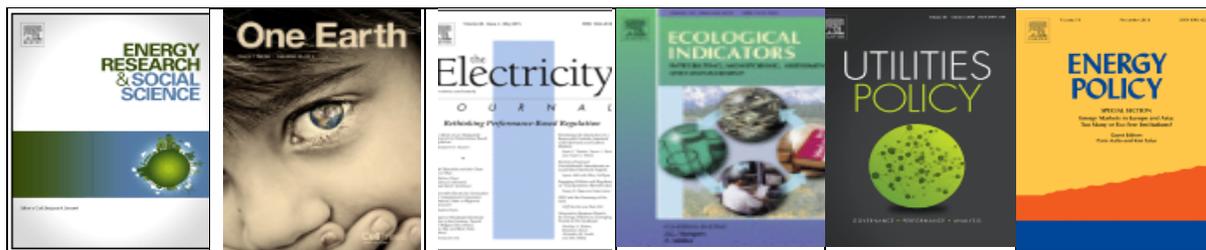
Journal Articles

- Brown, Marilyn A., Jeffrey Hubbs, Xinyi Vincent Gu, and Min-Kyeong Cha (2021), "Rooftop Solar for All: Closing the Gap Between the Technically Possible and the Achievable Potentials," *Energy Research and Social Science*, Volume 80, October. <https://doi.org/10.1016/j.erss.2021.102203>
- Brown, Marilyn A. and Valentina Sanmiguel Herrera (2021), "Combined Heat and Power as a Platform for Clean Energy Systems," *Applied Energy*, Vol. 304, December, 117686 <https://doi.org/10.1016/j.apenergy.2021.117686>
- Brown, Marilyn A. and Oliver Chapman (2021), "The Size, Causes, and Equity Implications of the Demand-Response Gap", *Energy Policy*, Volume 158, November. <https://www.sciencedirect.com/science/article/pii/S0301421521004031?dgcid=author>
- Brown, Marilyn A., Puneet Dwivedi, Sudhagar Mani, Daniel Matisoff, Jacqueline E. Mohan, Jeffrey Mullen, Michael Oxman, Rodgers, Richard Simmons, Blair Beasley, Lalith Polepeddi (2021). "A Framework for

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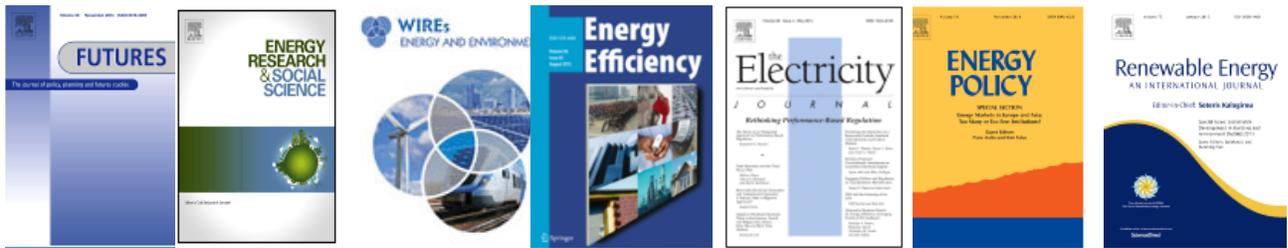
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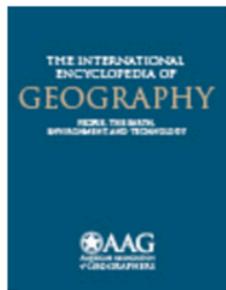
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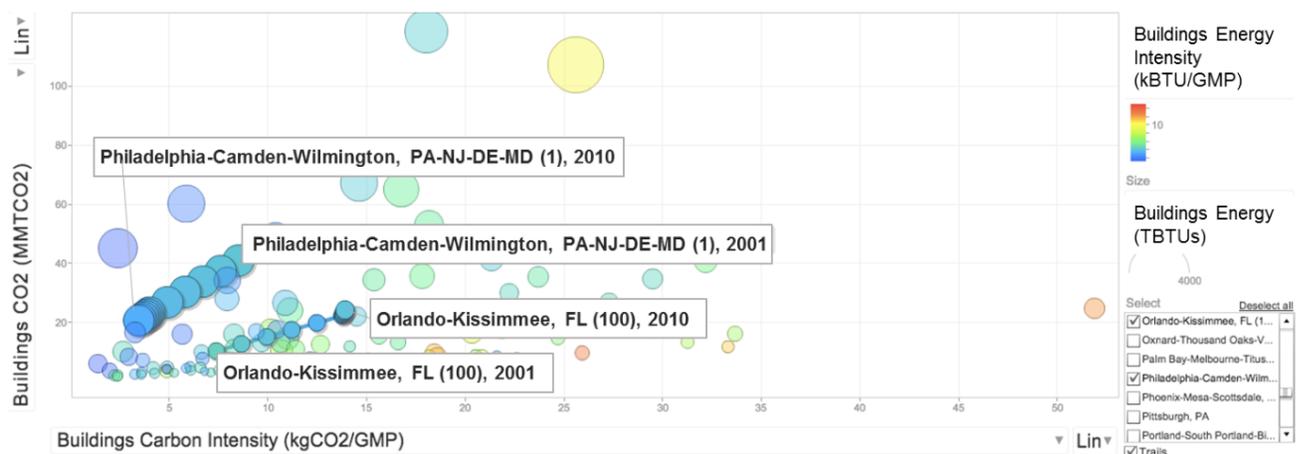
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Figure 2: Metros with the Least (Orlando) and Most (Philadelphia) Improved Buildings Carbon Footprints



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