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PROFESSIONAL EXPERIENCE

Synapse Energy Economics, Inc., Cambridge, MA. Senior Associate, 2000 to present.

Consulting on a variety of issues regarding climate change policy, electricity industry policy, regulation and restructuring, energy economics, wholesale market development, load response initiatives, and environmental policy. Recent work focuses on climate change, including anticipating climate change regulation in electric resource decisions, greenhouse gas emissions mitigation policies and costs, and analysis of federal legislative proposals. Prior work includes: participation in development of carbon cap and trade program in the Northeast, DG emissions, interconnection, and ratemaking issues; managing a review and analysis of “clean power” policies and emission reduction potential, and a case study of state multi-pollutant regulatory approaches; research on, and participation in development of, load response programs; evaluation of policies pertaining to distributed generation; representation of clients in New England Power Pool stakeholder process; and development of positions and strategies pertaining to regional transmission organizations and other wholesale market issues.

Department of Telecommunications and Energy, Boston, MA. Assistant Director, Senior Analyst, Associate Planner, Electric Power Division, 1991 through 2000. Lead staff on bulk power system issues and wholesale electric markets, environmental policy, and information disclosure. Extensive work on electric industry restructuring, integrated resource planning, and environmental externalities. Responsible for monitoring industry developments, developing policy recommendations, advising the Commission, writing Department decisions, building informational record, and supervising staff of eight technical analysts. Reviewed electric company demand side management programs and resource plans. Served on advisory groups developing emissions performance standards for New England, renewable portfolio standards for Massachusetts, and recommendations for siting reform in Massachusetts. As Co-chair of NECPUC Staff Energy Policy Committee, worked with Commissioners and staff in six New England states to develop policy positions on electric issues, monitor industry developments, and develop regional model disclosure rule and generation information system. Staff liaison with Massachusetts Department of Environmental Protection. Served on Inter-ISO Working Group, New England Regional Transmission Organization Initiative, and NARUC Committee on Energy, Resources and Environment.

Center for Environmental Design Research, University of California, Berkeley, California. Graduate Student Research Assistant, 1989 to 1990. Designed and implemented research plans, automated data collection, analysis and display. Prepared results for publication. Applied building automation software to control test conditions.

Energy and Resources Group, University of California, Berkeley, California. Graduate Student Research Assistant, Professor John P. Holdren, 1988 to 1989. Assisted US Pugwash Chairman in organization of 39th Annual Pugwash Conference on Science and World Affairs. Contacted participants, maintained data bases, supervised volunteers during conference. Analyzed federal expenditures on energy research and development.

Safe Energy Communication Council, Washington, DC Research Associate and Office Manager, 1987 to 1988. Analyzed and reported on US energy policy and legislation. Developed information program on energy efficiency. Managed office and budget for three-person staff. Hired and supervised interns.

Environmental Action Magazine, Washington, DC Research Assistant, 1986 to 1987. Wrote articles and news briefs on energy and environmental topics. Assisted in magazine production.

EDUCATION

MS in Energy and Resources. University of California, Berkeley, CA, 1990. Masters thesis on energy efficiency standards for commercial buildings. Courses in energy economics, technology, policy, environmental sciences and building sciences.

BA in History and Literature, Harvard College, Cambridge, MA, 1985. Graduated Cum Laude.

AWARDS

1999 Recipient of Second Annual NECPUC Staff Appreciation Award.

1998 Citation for Outstanding Performance, MA DTE Electric Restructuring Team.

1996 Massachusetts Pride in Performance Award, honoring outstanding performance in State Government.

PUBLICATIONS

Johnston, Hausman, Biewald, Wilson, White. *2011 Carbon Dioxide Price Forecast*. February 2011.

Chang, White, Johnston, Biewald. *Electricity Energy Efficiency Benefits of RGGI Proceeds: An Initial Analysis*. October 2010.

Johnston, Hamilton, Kresowik, Sanzillo, Schlissel. *Phasing Out Federal Subsidies for Coal*. April 2010.

Fisher, James, Johnston, Schlissel, Wilson. *Energy Future: A Green Energy Alternative for Michigan*. Prepared for Natural Resources Defense Council, and Energy Foundation. August 2009.

Schlissel, Johnston. *Preliminary Assessment of East Kentucky Power Cooperative's 2009 Resource Plan*. June 2009.

Biewald, White, Fisher, Chang, Johnston. *Incorporating Carbon Dioxide Emissions Reductions in Benefit Calculations for Energy Efficiency: Comments on the Department of Energy's Methodology for Analysis of the Proposed Lighting Standard Prepared for New York State Attorney General*. May 2009.

Schlissel, Wilson, Johnston, White. *An Assessment of Santee Cooper's 2008 Resource Planning*. April 2009.

Schlissel, Johnston. *The Financial Risks to Old Dominion Electric Cooperative's Consumer - Members of Building and Operating the Proposed Cypress Creek Power Station*. Prepared for Natural Resources Defense Council. April 2009.

Biewald, Johnston, Fisher. *Co-Benefits Experience and Lessons from the U.S. Electric Sector*. Published in *Pollution Atmosphérique*. April 2009.

Schlissel, Johnston, Biewald, White, Hausman, James, Fisher. *Synapse 2008 CO2 Price Forecasts*. July 2008.

Moomaw and Johnston. *Emissions Mitigation Opportunities and Practice in Northeastern United States*. June 2008

Schlissel, Johnston, Kallay, James, Sommer, Biewald, Hausman, Smith. *Don't Get Burned: The Risks of Investing in New Coal-Fired Generating Facilities*. Prepared for Interfaith Center on Corporate Responsibility. February 2008.

Takahashi, Johnston, Kallay, Biewald. *Greenhouse Gas Reduction Strategies of Electric and Gas Companies in North America*. March 2007.

Johnston, Hausman, Sommer, Biewald, Woolf, Schlissel, Roschelle, White. *Climate Change and Power: Carbon Dioxide Emissions Costs and Electricity Resource Planning*. March 2007.

Johnston, Weston, Takahashi, Murray. 2005. *Rate Structures for Customers with Onsite Generation: Practice and Innovation*. Prepared for National Renewable Energy Laboratory, December 2005.

Johnston, Roschelle, Biewald. 2005. *Taking Climate Change into Account in Utility Planning: Zero is the Wrong Carbon Value*. Prepared for Citizens Action Coalition of Indiana, and Hoosier Environmental Council. March 2005.

Johnston. 2002. *Multi-Pollutant Approaches in Certain OTR States*. Prepared for the Ozone Transport Commission. June 2002.

Johnston, Keith, Biewald, Woolf, Gonin. 2002. *Survey of Clean Power and Energy Efficiency Programs*. Prepared for the Ozone Transport Commission. January 2002.

Biewald, Johnston, Schlissel. 2001. *Room to Breathe: Why the Massachusetts Department of Environmental Protection's Proposed Air Regulations Are Compatible With Electric System Reliability*. Prepared for MASSPIRG and Clean Water Fund. March 2001.

Peterson, Biewald, Johnston, Gonin and Wallach. 2001. *Best Practices in Market Monitoring. A Survey of Current ISO Activities and Recommendations for Effective Market Monitoring and Mitigation in Wholesale Electricity Markets*. Prepared for the MD Office of People's Counsel, PA Office of Consumer Advocate, DE Division of the Public Advocate, NJ Division of the Ratepayer Advocate, Office of the People's Counsel of DC. November 2001.

Biewald, Johnston, Ramey, Peterson and White. 2001. *The Other Side of Competitive Markets: Developing Effective Load Response in New England's Electricity Market*. Prepared for the Maine Department of Attorney General and the Maine Office of the Public Advocate. June 2001.

RCEE Core Group. 1994. *Utility Environmental Impacts: Incentives and Opportunities for Policy Coordination in the New England Region*. US EPA CX817494-01-0 (June).

Fred S. Bauman et. al. 1993. *Air Movement, Ventilation and Comfort in a Partitioned Office Space*. ASHRAE Best Symposium Paper Award.

Arens, Bauman, Hui, Johnston and Schiller. 1990. *Air Movement and Comfort in Workstations*. Final Report, Steelcase Inc. research agreement No. M1123.

Arens, Bauman, Johnston and Zhang. 1990. *Performance Testing of a Floor-Based Occupant Controlled Office Ventilation System*. Presented at ASHRAE Winter Meeting, 1990.

Bauman, Johnston, Zhang, Arens and Schiller. 1990. *Individualized Comfort Control in Office Buildings*. Center for Environmental Design Research, University of California.

PRESENTATIONS

"Clean" Coal. Presentation to the National Association of Regulatory Utility Commissioners. July 29, 2002.

Load Response. Presented to the Vermont Department of Public Service. November 19, 2001.

Load Response and Environmental Impact. Presented at OTC/NARUC conference "Demand Responsiveness and Energy Efficiency." November 14, 2001.

Distributed Generation: The Environmentalist View From the Region. Presented at VT Public Service Board workshop on air quality permitting, siting, and interconnection standards. October 12, 2001.

Consumer and Environmental Benefits of Load Response. Presented at EPA/NESCAUM conference "Keeping the Lights on and the Air Clean." July 16, 2001.

The Importance of Publicly Available Power Plant Information. Presentation to the Harvard Electricity Policy Group. June 12, 2001.

Wholesale Electricity Markets: A Taco Short of a Combination Plate? Presented to National Low Income Energy Consumers. June 6, 2001.

Retail Access: Lessons Learned. The Massachusetts Experience. Presented at Electric Restructuring Workshop hosted by the VT Public Service Board. October 24, 2000.

Resume dated May 2011.