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PROFESSIONAL EXPERIENCE

Synapse Energy Economics Inc., Cambridge, MA. Senior Associate, 2001-2006, 2009-present. Areas of focus include environmental and economic analysis related to power generation and regional power systems; renewable energy costs and characteristics; and analysis of the U.S. fleet of fossil-fueled power plants. Examines regional scenarios for reducing greenhouse gases from the power sector and models power systems to assess costs and environmental impacts of policy proposals.

M. J. Bradley & Associates, Concord, MA. Environmental/Energy Consultant, 1996-2001. Worked with environmental advocates and energy companies in support of more stringent air regulations and energy policies supporting clean energy technologies. Facilitated strategic partnerships to address regulatory and market barriers to distributed generation. Participated in regulatory and legislative proceedings relevant to renewable resources and distributed generation and coordinated communication between technology developers, advocates and energy and air regulators.

Rhode Island Division of Public Utilities and Carriers, Providence, RI. Policy Analyst, 1995-1996. Analyzed the economic and environmental implications of electric industry restructuring proposals. Helped facilitate the Rhode Island Electric Industry Restructuring Collaborative and co-authored the Division's restructuring plan.

Institute for Resource and Security Studies, Cambridge, MA. Intern, 1992. Managed research projects including the creation of a sustainability database for the City of Cambridge and a report on energy use in the city.

National Outdoor Leadership School, Lander, WY. Field Instructor, 1989-1990. Completed instructors training program. Responsibility for the safety and education of students on 30-day wilderness expeditions in Alaska. Organized and led a 30-day trek in the Himalayas.

EDUCATION

- Masters, Environmental Studies. Brown University, Providence, RI, 1995.
- Post-baccalaureate work, chemistry, statistics and economics. Harvard Extension School, Cambridge, MA, 1993.
- B.A., English. Tufts University, Medford, MA, 1988.

TESTIMONY AND PRESENTATIONS

Review of Wisconsin Public Service Corporation Application for a Certificate for Construction of the Weston 4 Generating Plant. Testimony before Public Service Commission of Wisconsin on behalf of the Citizens Utility Board of Wisconsin, June 25, 2004.

Responding to the Blackout of 2003. Testimony before the New York City Council, New York, New York, September 16, 2003.

Estimating Emission Reductions from Efficiency and Renewable Resources. Presentation to a conference of the Commission for Environmental Cooperation, Washington DC, June 2003.

The Environmental Impacts of Load Response in New England. Presentation to the New England Demand Response Initiative (NEDRI), Holyoke Massachusetts, July 2003.

Distributed Generation and Air Emissions in the U.S., presentation at the Distributed Generation: Technologies for a New Energy Market conference, Pescara Italy, April 2002.

Potential Emissions from Diesel Generators, presentation at the Globalcon Energy Conference on Energy Technology and Policy, Atlantic City, New Jersey, March 2001.

Capacity Crises and Air Emissions, presentation at the Electric Utility Environmental Conference, Tucson, Arizona, January 2001.

Lessons from Existing Credit Trading Programs, presentation at NYSERDA/ASERTTI Conference on Developing Tradable Credits for Renewable Energy, Lake George, New York, October 2000.

Clean Energy Opportunities and Barriers, presentation at a roundtable meeting of New York State Legislature on Energy and Environmental Technologies, Albany, New York, May 2000.

Coordinating Energy and Environmental Policy to Support Clean Energy, presentation at the OTC/ECOS Environmental Technologies Conference, Pittsburgh, Pennsylvania, June 1999.

REPORTS AND ARTICLES

Beyond Business as Usual: Investigating a Future Without Coal and Nuclear Power in the U.S. Lead author on report for the Civil Society Institute, May 2010.

Quantifying and Controlling Fine Particulate Matter in New York City. Report prepared for Coalition Helping Organize a Kleaner Environment, Natural Resources Defense Council (NRDC), and Reliant Energy, August 28, 2007.

Energy Efficiency Technologies for Low-Income Housing in Massachusetts Prepared for Low-Income Energy Affordability Network of Massachusetts (LEAN), August 1, 2005. Report co-authored with the Pace Law School Energy Project, prepared for New York State Energy Research and Development Authority, August 1, 2006.

Feasibility Study of Alternative Energy and Advanced Energy Efficiency Technologies for Low-Income Housing in Massachusetts. Report prepared for Energy Efficiency Technologies for Low-Income Housing in Massachusetts Prepared for Low-Income Energy Affordability Network of Massachusetts (LEAN), August 1, 2005.

Methods for Estimating Emissions Avoided by Renewable Energy and Energy Efficiency. Lead author on report prepared for U.S. Environmental Protection Agency, July 8, 2005.

Evaluating Simplified Methods of Estimating Displaced Emissions in Electric Power Systems: What Works and What Doesn't. Lead author on report prepared for North American Commission for Environmental Cooperation (CEC), November 4, 2004.

A Responsible Electricity Future: An Efficient, Cleaner and Balanced Scenario for the US Electricity System. Report prepared for National Commission on Energy Policy, and National Association of State PIRGs, June 11, 2004.

Designing Demand Response Programs in New England to Achieve Air Quality Benefits, Electricity Journal, May 2004.

A Clean Electricity Plan for the Hudson River Valley. Lead author on report for the Hudson River Foundation, October 2003.

Estimating the Emission Reduction Benefits of Renewable Electricity and Energy Efficiency in North America: Experience and Methods. Lead author on report for the Center for Environmental Cooperation, September 2003.

Modeling Demand Response and Air Emissions in New England, lead researcher and author on report for the U.S. Environmental Protection Agency, September 2003.

The Emission Reduction Workbook, lead researcher and author of Excel-based spreadsheet tool for estimating emission reductions from energy policies in the Northeast, November 2002.

Comments on EPA's Proposed Clean Water Act Section 316(b) for Cooling Water Intake Structures at Phase II Existing Facilities, co-authored analysis and comments on behalf of Riverkeeper, Inc.

Predicting Avoided Emissions from Policies that Encourage Energy Efficiency and Clean Power, report prepared for the Ozone Transport Commission, June 2002.

Survey of Clean Power and Energy Efficiency Programs, report co-authored with other Synapse staff for the the Ozone Transport Commission, January 2002.

Distributed Resources and their Emissions: Modeling the Impacts, report co-authored with the Natural Resources Defense Council and Institute for Lifecycle Analysis, April 2001.

Utility Tariffs and Charges Affecting Distributed Generation, inventory and report prepared for the Natural Resources Defense Council, August, 2000.

Emissions Trading and Fuel Cells: Issues and Opportunities, prepared for the Northeast Fuel Cell Work Group, April 1999.

Lead author of chapters on renewable and fossil-fired electricity generation for the report, *Reducing Greenhouse Gases and Air Pollution: A Menu of Harmonized Options*, published by STAPPA/ALAPCO in 1999.

Benchmarking the Air Emissions of Electric Utility Generators in the Eastern United States, report co-authored with the Natural Resources Defense Council and Public Service Electric & Gas, March 1997.

Resume dated May 2011.