

Jennifer Kallay, Principal Associate

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PROFESSIONAL EXPERIENCE

Synapse Energy Economics, Inc., Cambridge, MA. *Principal Associate*, April 2023 – Present; *Senior Associate*, June 2013 – April 2023; *Associate*, July 2008 – June 2013; *Research Associate*, January 2007 – July 2008.

More than 15 years of experience researching and analyzing distributed energy resource plans, program design and performance; funding and incentive mechanisms; and cost-effectiveness screening to achieve policy goals in jurisdictions in the United States and Canada.

- Improves grid resilience planning and practices through work on goal setting, scoping, evaluation and prioritization criteria, performance monitoring and incentives, regulatory approaches, and cost recovery mechanisms.
- Assesses the disparate impacts of electric and natural gas infrastructure on economic, social, and health outcomes and identifies and evaluates solutions for improving energy equity.
- Leads stakeholder workshops to provide context on regulatory practices and opportunities for public engagement, collect public input, and integrate public input into electric and gas system regulation and planning.

Boston University's Center for Energy and Environmental Studies, Boston, MA. *Research Assistant for Professor Robert Kaufmann*, January 2006 – January 2007.

Modeled land-use change in the Amazon using spatial, economic, climatic, and physical variables, and GIS and regression techniques.

Digitas, Inc., Boston, MA. *Manager*, November 1999 – August 2005.

Researched, designed, and executed reporting solutions to assess the effectiveness of marketing strategies based on consumer behavior. Customized analyses to gain insight into environmental influences on marketing performance and designed and built models to predict sales/revenue and inform business economics using relational databases.

PROFESSIONAL ACTIVITIES

Gas and Light Commissioner. *Elected Public Official.* 2018-present. Serves on Wakefield Massachusetts' Municipal Gas and Light Department Board of Commissioners.

EDUCATION

Boston University, Boston, MA

Master of Arts in Energy and Environmental Analysis, Spring 2007. Graduate course work in multivariate statistical analysis, environmental economics, risk assessment, energy, GIS, climate change, and environmental policy.

University of Maryland, College Park, MD

Bachelor of Arts in Journalism, Spring 1999. Presidential Scholarship and Honors Program.

PUBLICATIONS

Synapse Energy Economics, Climable, Brown University Climate and Development Lab. 2023. *Power Play: Actions for New England's Equitable Energy Transition*. Full report. Climable.org.

Rickerson, W., E. Brousseau, A. Douglas, J. Kallay, S. Singh Walker, A. Hopkins, A. Napoleon, K. Takahashi. 2022. *Future Proofing the Texas Grid with Distributed Energy Resources*. Prepared by Converge Strategies and Synapse Energy Economics for the Texas Advanced Energy Business Alliance.

Kallay, J., S. Liburd, E. Camp, S. Singh, T. Woolf, J. Hall. 2022. *A Better New England Regulatory Framework for Mitigating Climate Change*. Synapse Energy Economics for Brown University.

Kallay, J., A. Napoleon, K. Takahashi, E. Sinclair, T. Woolf. 2021. *Opportunities for Evergy Kansas to Address Energy Equity Within its Integrated Resource Plan and Other Planning Processes*. Synapse Energy Economics for Union of Concerned Scientists.

Kallay, J., A.S. Hopkins, C. Odom, J. Ramey, J. Stevenson, R. Broderick, R. Jeffers, B. Garcia. 2021. *The Quest for Public Purpose Microgrids for Resilience: Considerations for Regulatory Approval*. Synapse Energy Economics for Sandia National Labs.

Kallay, J., A. Napoleon, J. Hall, B. Havumaki, A. Hopkins, M. Whited, T. Woolf, J. Stevenson, R. Broderick, R. Jeffers, B. Garcia. 2021. *Regulatory Mechanisms to Enable Investments in Electric Utility Resilience*. Synapse Energy Economics for Sandia National Laboratories.

Kallay, J., S. Letendre, T. Woolf, B. Havumaki, S. Kwok, A. Hopkins, R. Broderick, R. Jeffers, K. Jones, M. DeMenno. 2021. *Application of a Standard Approach to Benefit-Cost Analysis for Electric Grid Resilience Investments*. Synapse Energy Economics for Sandia National Laboratories.

Kallay, J., A. Napoleon, B. Havumaki, J. Hall, C. Odom, A. Hopkins, M. Whited, T. Woolf, M. Chang, R. Broderick, R. Jeffers, B. Garcia. 2021. *Performance Metrics to Evaluate Utility Resilience Investments*. Synapse Energy Economics for Sandia National Laboratories.

Kallay, J., A. Hopkins, A. Napoleon, B. Havumaki, J. Hall, M. Whited, M. Chang, R. Broderick, R. Jeffers, K. Jones, M. DeMenno. 2021. *The Resilience Planning Landscape for Communities and Electric Utilities*. Synapse Energy Economics for Sandia National Laboratories.

Napoleon, A., J. Hall, J. Kallay, M. Chang, P. Eash-Gates, N. L. Seidman, C. James, D. Torre, D. Brutkoski, J. Migden-Ostrander, K. Colburn, K. Maddux, D. Harlow, M. Power. 2020. *Energy Infrastructure: Sources of*

Inequities and Policy Solutions for Improving Community Health and Wellbeing. Synapse Energy Economics, Regulatory Assistance Project, and Community Action Partnership for the Robert Wood Johnson Foundation.

Knight, P. J. Frost, J. Kallay. S. Letendre. J. Hall. 2020. *Assessing the Impacts Climate Change May Have on Maine's Economy, Revenues, and Investment Decisions*. Synapse Energy Economics and Eastern Research Group for the State of Maine's Department of the Governor's Office of Policy Innovation and the Future.

Napoleon, A., J. Kallay, K. Takahashi. 2020. *Utility Energy Efficiency and Building Electrification Portfolios Through 2025: A Brief on the New York Public Service Commission's Recent Order*. Synapse Energy Economics for the Natural Resources Defense Council.

Kallay, J., A. Hopkins, J. Frost, A. Napoleon, K. Takahashi, J. Slason, G. Freeman, D. Grover, B. Swanson. 2019. *Net Zero Energy Roadmap for the City of Burlington, Vermont*. Synapse Energy Economics and Resource Systems Group for Burlington Electric Department.

Napoleon, A., T. Woolf, K. Takahashi, J. Kallay, B. Havumaki. 2019. *Comments in the New York Public Service Commission Case 18-M-0084: In the Matter of a Comprehensive Energy Efficiency Initiative*. Comments related to NY Utilities report regarding energy efficiency budgets and targets, collaboration, heat pump technology, and low- and moderate-income customers and requests for approval. Prepared by Synapse Energy Economics on behalf of Natural Resources Defense Council.

Allison, A., A. Napoleon, J. Kallay. 2019. *Maine Low-Income Home Energy Burden Study*. Synapse Energy Economics for the Maine Office of the Public Advocate.

Havumaki, B., J. Kallay, K. Takahashi, T. Woolf. 2019. *All-Electric Solid Oxide Fuel Cells as an Energy Efficiency Measure*. Synapse Energy Economics for Bloom Energy.

Takahashi, K., B. Havumaki, J. Kallay, T. Woolf. 2019. *Bloom Fuel Cells: A Cost-Effectiveness Brief*. Synapse Energy Economics for Bloom Energy.

Kallay, J., A. Napoleon. 2019. Comments and Revised Comments on EfficiencyOne's Proposed Enhancements to its Rate and Bill Impact Model. Synapse Energy Economics for the Nova Scotia Utility and Review Board.

Hall, J., R. Wilson, J. Kallay. 2018. *Effects of the Draft CAFE Standard Rule on Vehicle Safety*. Prepared by Synapse Energy Economics on behalf of Consumers Union.

Whited, M., J. Kallay, D. Bhandari, B. Havumaki. 2018. *Driving Transportation Electrification Forward in Pennsylvania: Considerations for Effective Transportation Electrification Ratemaking*. Synapse Energy Economics for Natural Resources Defense Council.

Synapse Energy Economics, 2017. *Massachusetts Green Communities Program: 2016 Progress Report*. Prepared for Massachusetts Department of Energy Resources. Available at: <https://www.mass.gov/files/documents/2018/03/12/gc-2016-progress-report.pdf>.

Kallay, J., A. Napoleon, M. Chang. 2016. *Opportunities to Ramp Up Low-Income Energy Efficiency to Meet States and National Climate Policy Goals*. Synapse Energy Economics.

Napoleon, A., K. Takahashi, J. Kallay, T. Woolf. 2016. "Evaluation, Measurement, and Verification in Virginia." Memorandum prepared by Synapse Energy Economics for Clean Energy Solutions Inc., Virginia Energy Efficiency Council, and Virginia Department of Mines, Minerals and Energy.

Kallay, J., K. Takahashi, A. Napoleon, T. Woolf. 2015. *Fair, Abundant, and Low-Cost: A Handbook for Using Energy Efficiency in Clean Power Plan Compliance*. Synapse Energy Economics for the Energy Foundation.

Woolf, T., K. Takahashi, E. Malone, A. Napoleon, J. Kallay. 2015. *Ontario Gas Demand-Side Management 2016-2020 Plan Review*. Synapse Energy Economics for the Ontario Energy Board.

Stanton, E. A., P. Knight, J. Daniel, B. Fagan, D. Hurley, J. Kallay, E. Karaca, G. Keith, E. Malone, W. Ong, P. Peterson, L. Silvestrini, K. Takahashi, R. Wilson. 2015. *Massachusetts Low Gas Demand Analysis: Final Report*. Synapse Energy Economics for the Massachusetts Department of Energy Resources.

IEA. 2014. *Capturing the Multiple Benefits of Energy Efficiency*. Expert advisor on Chapter 6. Energy Delivery.

Brockway, N., J. Kallay, E. Malone. 2014. *Low-Income Assistance Strategy Review*. Synapse Energy Economics for the Ontario Energy Board.

Woolf, T., E. Malone, J. Kallay. 2014. *Rate and Bill Impacts of Vermont Energy Efficiency Programs*. Synapse Energy Economics for the Vermont Public Service Department.

Woolf T., E. Malone, J. Kallay, K. Takahashi. 2013. *Energy Efficiency Cost-Effectiveness Screening in the Northeast and Mid-Atlantic States*. Synapse Energy Economics for Northeast Energy Efficiency Partnerships, Inc. (NEEP).

Woolf T., J. Kallay, E. Malone, T. Comings, M. Schultz, J. Conyers. 2012. *Commercial & Industrial Customer Perspectives on Massachusetts Energy Efficiency Program*. Synapse Energy Economics for Massachusetts Energy Efficiency Advisory Council.

Fisher J., J. Levy, Y. Nishoka, P. Kirshen, R. Wilson, M. Chang, J. Kallay, C. James. 2010. *Co-Benefits of Energy Efficiency and Renewable Energy in Utah*. Synapse Energy Economics for State of Utah Energy Office.

Hurley D., K. Takahashi, B. Biewald, J. Kallay, R. Maslowski. 2008. *Cost and Benefits of Electric Utility Energy Efficiency in Massachusetts*. Synapse Energy Economics for Northeast Energy Efficiency Council.

Schlissel D., L. Johnston, J. Kallay, C. James, A. Sommer, B. Biewald, E. Hausman, A. Smith. 2008. *Don't Get Burned: The Risks of Investing in New Coal-Fired Generating Facilities*. Synapse Energy Economics for Interfaith Center on Corporate Responsibility.

Swanson C., R. Hornby, J. Kallay. 2007. *Avoided Gas Supply Costs in New York*. Synapse Energy Economics for Keyspan Energy.

Hornby R., C. Swanson, M. Drunsic, D. White, P. Chernick, B. Biewald, J. Kallay. 2007. *Avoided Energy Supply Costs in New England: 2007 Report*. Synapse Energy Economics for Avoided-Energy-Supply-Component (AESC) Study Group.

Takahashi K., B. Biewald, L. Johnson, J. Kallay. 2007. *Greenhouse Gas Reduction Strategies of Electric and Gas Companies in North America*. Synapse Energy Economics for Tokyo Gas.

TESTIMONY

New Mexico Public Regulation Commission (Case No. 22-00232-UT): Direct Testimony regarding New Mexico Gas Company's application for approve of its 23023-2025 Energy Efficiency Program. On behalf of the Office of the Attorney General, November 2022.

Resume updated October 2023