

Erin Malone, Senior Associate

Synapse Energy Economics | 485 Massachusetts Avenue, Suite 2 | Cambridge, MA 02139 | 617-453-7021
emalone@synapse-energy.com

PROFESSIONAL EXPERIENCE

Synapse Energy Economics Inc., Cambridge, MA. *Senior Associate*, May 2016 – Present, *Associate*, June 2013 – April 2016, *Research Associate*, January 2012 – June 2013.

- Assists in the evaluation of energy efficiency program design and implementation, including: efficiency technology assessment; program design and budgeting; cost-benefit analyses; avoided cost analyses; and regulatory policies, including program cost recovery and revenue decoupling.
- Conducts research and performs analysis with a special focus on energy efficiency topics, including: energy efficiency research and development; ratepayer-funded efficiency programs; energy efficiency as a central component in utility integrated resource planning; and the role of efficiency in addressing climate change.
- Creator of several proprietary Excel-based models designed to forecast the impacts of energy efficiency, including its impact on customers' rates and bills, expected savings and benefits, and budget forecasting and reporting.

Massachusetts Department of Public Utilities, Boston, MA. *Economist in Electric Power Division*, July 2008 – December 2011.

- Specialized in the review of electric utilities' energy efficiency activities.
- Established efficiency policy by recommending decisions to the Commission on issues related to cost-effectiveness, cost-recovery, and utility performance incentives. Managed timely approval of Massachusetts utilities' 2008-2012 efficiency plans and 2006-2010 efficiency reports by analyzing program implementation and reviewing evaluation studies.
- Created a model that analyzes all impacts of efficiency on consumers' rates and bills. Led stakeholder working groups, and investigated energy efficiency as a central component in utility integrated resource planning.

EDUCATION

Boston College, Chestnut Hill, MA
Bachelor of Arts in Economics, 2008. *Cum Laude*.

LEED Green Associate Accreditation, March 2012

PUBLICATIONS

- Knight, P., D. Goldberg, E. Malone, A. S. Hopkins, D. Hurley. 2018. *Getting SMART: Making sense of the Solar Massachusetts Renewable Target (SMART) program*. Prepared for Cape Light Compact.
- Malone, E., T. Woolf, D. Goldberg. 2018. *Updating the Energy Efficiency Cost-Effectiveness Framework in Minnesota: Application of the National Standard Practice Manual to Minnesota*. Conservation Applied Research and Development (CARD) Report. Synapse Energy Economics for Minnesota Department of Commerce, Division of Energy Resources.
- Cook, R., J. Koo, N. Veilleux, K. Takahashi, E. Malone, T. Comings, A. Allison, F. Barclay, L. Beer. 2017. *Rhode Island Renewable Thermal Market Development Strategy*. Meister Consultants Group and Synapse Energy Economics for Rhode Island Office of Energy Resources.
- Whited, M., E. Malone, T. Vitolo. 2016. *Rate Impacts on Customers of Maryland's Electric Cooperatives: Impacts on SMECO and Choptank Customers*. Synapse Energy Economics for Maryland Public Service Commission.
- Malone, E., W. Ong, M. Chang. 2015. *State Net-to-Gross Ratios: Research Results and Analysis for Average State Net-to-Gross Ratios Used in Energy Efficiency Savings Estimates*. Synapse Energy Economics for the United States Environmental Protection Agency.
- 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.
- Brockway, N., J. Kallay, E. Malone. 2014. *Low-Income Assistance Strategy Review*. Synapse Energy Economics for the Ontario Energy Board.
- Woolf, T., E. Malone, F. Ackerman. 2014. *Cost-Effectiveness Screening Principles and Guidelines for Alignment with Policy Goals, Non-Energy Impacts, Discount Rates, and Environmental Compliance Costs*. Synapse Energy Economics for Northeast Energy Efficiency Partnerships (NEEP) Regional Evaluation, Measurement and Verification Forum.
- Woolf, T., E. Malone, C. Neme, R. LeBaron. 2014. "Unleashing Energy Efficiency." *Public Utilities Fortnightly*, October, 30-38.
- Woolf, T., E. Malone, C. Neme. 2014. *Regulatory Policies to Support Energy Efficiency in Virginia*. Synapse Energy Economics and Energy Futures Group for the Virginia Energy Efficiency Council.
- Woolf, T., M. Whited, E. Malone, T. Vitolo, R. Hornby. 2014. *Benefit-Cost Analysis for Distributed Energy Resources: A Framework for Accounting for All Relevant Costs and Benefits*. Synapse Energy Economics for the Advanced Energy Economy Institute.

Malone, E. T. Woolf, K. Takahashi, S. Fields. 2013. "Appendix D: Energy Efficiency Cost-Effectiveness Tests." *Readying Michigan to Make Good Energy Decisions: Energy Efficiency*. Synapse Energy Economics for the Council of Michigan Foundations.

Stanton, E. A., S. Jackson, G. Keith, E. Malone, D. White, T. Woolf. 2013. *A Clean Energy Standard for Massachusetts*. Synapse Energy Economics for the Massachusetts Clean Energy Center and the Massachusetts Departments of Energy Resources, Environmental Protection, and Public Utilities.

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.

Malone, E. 2014. "Driving Efficiency with Non-Energy Benefits." Presentation at the National Symposium on Market Transformation, April 1, 2013.

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., E. Malone, L. Schwartz, J. Shenot. 2013. *A Framework for Evaluating the Cost-Effectiveness of Demand Response*. Synapse Energy Economics and Regulatory Assistance Project for the National Forum on the National Action Plan on Demand Response: Cost-effectiveness Working Group.

Woolf, T., W. Steinhurst, E. Malone, K. Takahashi. 2012. *Energy Efficiency Cost-Effectiveness Screening: How to Properly Account for 'Other Program Impacts' and Environmental Compliance Costs*. Synapse Energy Economics for Regulatory Assistance Project and Vermont Housing Conservation Board.

Woolf, T., E. Malone, K. Takahashi, W. Steinhurst. 2012. *Best Practices in Energy Efficiency Program Screening: How to Ensure that the Value of Energy Efficiency is Properly Accounted For*. Synapse Energy Economics for National Home Performance Council.

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

TESTIMONY

Virginia State Corporation Commission (Case No. PUR-2018-00168): Direct testimony of Tim Woolf and Erin Malone regarding Virginia Electric and Power Company's application for approval to implement demand-side management programs and for approval of two updated rate adjustment clauses. On behalf of the Sierra Club. February 6, 2019.

Massachusetts Department of Public Utilities (DPU 18-116): Testimony regarding program cost-effectiveness inputs in the Cape Light Compact's 2019-2021 Three-Year Energy Efficiency Plan. On behalf of the Cape Light Compact. December 17, 2018.

Massachusetts Department of Public Utilities (DPU 16-169): Oral testimony regarding National Grid's petition for ruling regarding the provision of gas energy efficiency services. On behalf of the Cape Light Compact. March 8-9, 2017.

Massachusetts Department of Public Utilities (DPU 16-169): Direct testimony of Tim Woolf and Erin Malone regarding National Grid's petition for ruling regarding the provision of gas energy efficiency services. On behalf of the Cape Light Compact. November 2, 2016.

Massachusetts Department of Public Utilities (DPU 16-127): Testimony regarding program results and cost-effectiveness inputs in the Cape Light Compact's 2013-2015 Energy Efficiency Three-Year Term Report. On behalf of the Cape Light Compact. February 10, 2017.

Massachusetts Department of Public Utilities (DPU 15-166): Testimony regarding program cost-effectiveness inputs in the Cape Light Compact's 2016-2018 Three-Year Energy Efficiency Plan. On behalf of the Cape Light Compact. December 9, 2015.

Massachusetts Department of Public Utilities (DPU 12-54 and DPU 13-118): Testimony regarding program results and cost-effectiveness inputs in the Cape Light Compact's 2011 and 2012 Annual Energy Efficiency Reports. On behalf of the Cape Light Compact. March 4, 2014.