

## **Danielle Goldberg, Senior Associate**

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### **PROFESSIONAL EXPERIENCE**

**Synapse Energy Economics Inc.**, Cambridge, MA. *Senior Associate*, April 2022 – Present, *Associate*, April 2019 – April 2022, *Research Associate*, February 2017 – March 2019

- Conducts research and provides consulting on energy sector issues, with a focus on data, programs, policies, and technologies related to energy efficiency, electrification, and electricity generation.
- Analyzes ratepayer-funded energy efficiency and other distribute energy resource programs across North America for best practices in cost-effectiveness testing and program design.
- Develops and evaluates cost-benefit analyses and other Excel-based models for energy efficiency programs and technologies.
- Prepares and assists with expert testimony related to various energy-sector topics

**Helping Overcome Obstacles Peru**, Arequipa, Peru. *School Coordinator, English Teacher*, May 2016 – July 2016

- Managed daily operation of the school and organized school functions, including assemblies and field trips.
- Acted as liaison between office staff, volunteers, and parents, communicating in both Spanish and English.
- Developed and led custom lesson plans to teach English to children ages 3-6.

**Allen Medical Systems**, Acton, MA. *New Product Development Co-op*, January – June 2015

- Designed lifecycle tests for arm traction device adhering to medical standards.
- Worked with pneumatic and electromechanical equipment.
- Developed extensive test documentation detailing calculations and procedures for load profiles and estimated lifetime usage.
- Created parts, drawings, and assemblies for design prototypes.

**Bose Corporation**, Framingham, MA. *Design Compliance Engineering Mechanical Test Co-op*, January – June 2014

- Performed design validation testing on audio and visual products.
- Conducted environmental and dynamic testing, such as thermal testing, transportation testing, drop testing, and surface damage testing.

**Amphenol Alden Products**, Brockton, MA, *Mechanical Engineering Co-op*, January – June 2013

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- Completed extensive formal training in the fundamentals of SolidWorks for 2D and 3D modeling followed by application of software.
  - Performed tolerance analyses and proposed changes based on the results.
  - Assessed severity of micro-cracks in electrical connectors using advanced lab equipment.

## EDUCATION

**Northeastern University**, Boston, MA

Bachelor of Science in Mechanical Engineering, 2016. *Cum Laude*.

## PUBLICATIONS

Goldberg, D., S. Chavin, J. Taberner, P. Knight. 2023. *Green Dash Northeast: state-level data on emissions and energy in the Northeast*. Synapse Energy Economics for Barr Foundation.

Malone, E., D. Goldberg, S. Kwok, T. Woolf. 2022. *The Cape Light Compact's Low-Income Energy Efficiency Programs: Challenges and Opportunities*. Synapse Energy Economics for The Cape Light Compact.

Takahashi, K., T. Woolf, B. Havumaki, D. White, D. Goldberg, S. Kwok, A. Takasugi. 2021. *Missed Opportunities: The Impacts of Recent Policies on Energy Efficiency Programs in Midwestern States*. Synapse Energy Economics for the Midwest Energy Efficiency Alliance.

Takahashi, K., E. Sinclair, A. Napoleon, A.S. Hopkins, D. Goldberg. 2021. *Evaluation of EnergyWise Low-Income Energy Efficiency Program in Mississippi – Program Performance, Design, and Implications for Low-Income Efficiency Programs*. Synapse Energy Economics for Sierra Club and Gulf Coast Community Foundation.

Eash-Gates, P., K. Takahashi, D. Goldberg, A.S. Hopkins, S. Kwok. 2021. *Boston Building Emissions Performance Standard: Technical Methods Overview*. Synapse Energy Economics for the City of Boston.

Goldberg, D., J. Frost, D. Hurley, K. Takahashi. 2020. *New England Electrification Load Forecast*. Synapse Energy Economics for E4TheFuture.

Takahashi, K., J. Frost, D. Goldberg, A. S. Hopkins, K. Nishio, K. Nakano. 2020. *Survey of U.S. State and Local Building Decarbonization Policies and Programs*. Presented at the 2020 ACEEE Summer Study of Energy Efficiency in Buildings.

Malone, E., T. Woolf, D. Goldberg. 2019. "Assessing Resource Cost Effectiveness." *A.E.S.P. Magazine*, 2019 Edition, 8-10.

Napoleon, A., D. Goldberg, K. Takahashi, T. Woolf. 2019. *An Assessment of Prince Edward Island Energy Corporations' 2018 - 2021 Energy Efficiency and Conservation Plan*. Synapse Energy Economics for Carr, Stevenson and MacKay as Counsel to the Island Regulatory and Appeals Commission.

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Malone, E., D. Goldberg, J. Frost. 2018. *Database of State Efficiency Screening Practices (DSESP): A Resource of the NESP*. Synapse Energy Economics for E4TheFuture.

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.

Fisher, J., M. Whited, T. Woolf, D. Goldberg. 2018. *Utility Investments for Market Transformation: How Utilities Can Help Achieve Energy Policy Goals*. Synapse Energy Economics for Energy Foundation.

A. Hopkins, PhD, K. Takahashi, D. Goldberg. 2018. *Strategic Electrification Webinar*. Synapse Energy Economics.

D. Goldberg, E. Malone, J. Kallay, K. Takahashi. 2018. *Blog post: Switch on the Savings: A Heat Pump Cost-Effectiveness Study*. Synapse Energy Economics.

D. Goldberg, J. Kallay. 2017. *Blog post: Energy Efficiency Programs Plan for Post LED Success*. Synapse Energy Economics.

## TESTIMONY

**Corporation Commission of Kansas (Docket No. 22-EKME-254-TAR):** Direct Testimony of Danielle Goldberg regarding recommendations for future improvements to Evergy's Demand-Side Management Portfolios. June 17, 2022.

**New Hampshire Public Utilities Commission (Docket No. DE 20-092):** Direct Testimony of Courtney Lane and Danielle Goldberg regarding the NHSaves 2021-2023 Triennial Energy Efficiency Plan and the importance of ratepayer funded energy efficiency programs. On behalf of the Office of the Consumer Advocate. April 19, 2022.

## TESTIMONY ASSISTANCE

**Illinois Commerce Commission (Docket No. 18-0211):** Direct Testimony of Max Chang regarding Ameren Illinois Company's voltage optimization plan and the importance of prioritizing low-income communities. On behalf of the People of the State of Illinois, represented by the Office of the Illinois Attorney General. March 7, 2018.

**Commonwealth of Massachusetts Appellate Tax Board (Docket No. C331142):** Expert report by Max Chang on the process of steam generation and distribution under the Commonwealth of Massachusetts' definition for manufacturing. On behalf of the City of Boston. January 11, 2018.

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*Resume updated March 2023*