Sophie Schadler, Research Associate II

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PROFESSIONAL EXPERIENCE

Synapse Energy Economics, Inc., Cambridge, MA*. Research Associate II,* October 2024 – Present; *Research Associate,* September 2023 – October 2024.

- Performs quantitative and qualitative research and analysis on energy-sector issues including the future of natural gas, transmission planning, and electric vehicles.
- Assists in testimony development focused on non-pipeline alternatives, leak-prone pipe, and low-carbon fuels in future of gas proceedings.
- Supports modeling on gas rates and electric vehicle stock turnover.

Environmental Studies Capstone Research Project, Colgate University*. "Addressing New York State's 2019 Climate Act: Impacts on Energy Demand and Strategies for Emission Reduction in the Village of Hamilton",* January 2023 – May 2023

- Conducted research assessing the Village of Hamilton's current and future energy needs and alignment with New York State's goal to reduce carbon emissions 85% by 2050.
- Produced a paper forecasting future electric demand in the Village of Hamilton and recommending strategies to improve energy efficiency.

GIS Research Assistant*, Colgate University. Mapping Chicago Public Housing developments with Professor Madeleine Hamlin,* January 2023 — May 2023 and *Mapping Colgate's landholdings with GIS,* June 2022 — August 2022

- Researched and digitized building footprints of demolished public housing developments in Chicago in contribution to a project on corrupt policing practices.
- Compiled the first GIS map of Colgate's complete landholdings with area classified by land-cover type, published map and user's guide for Colgate's records and public access.

EDUCATION

Colgate University, Hamilton, NY: B.A. in Environmental Geography, minor in Economics, 2023
Areas of Focus: *Sustainable Development, Environmental Economics, and Human Geography*

SKILLS

Microsoft Office Suite, ArcGIS, Python

PUBLICATIONS

Shenstone-Harris, S., M. Whited, K. Takahashi, S. Schadler, A. Fuzaylov, I. Weiss. 2025. *How Will Future Electric Vehicle Adoption and Building Electrification Affect Electric Rates?* New Jersey Factsheet. Synapse Energy Economics for Natural Resources Defense Council.

Shenstone-Harris, S., M. Whited, K. Takahashi, S. Schadler, A. Fuzaylov, I. Weiss. 2025. *How Will Future Electric Vehicle Adoption and Building Electrification Affect Electric Rates?* New Mexico Factsheet. Synapse Energy Economics for Natural Resources Defense Council.

Takahashi, K., C. Lane, M. Whited, S. Schadler, T. Gyalmo, A. Zeng, A. S. Hopkins. 2024. *Charging Minnesota's Electric Vehicles; Strategies that Work for the Electric Grid and Consumers.* Synapse Energy Economics for Minnesota Department of Commerce, Division of Energy Resources.

Yuang, C., M. Whited, T. Nguyen, S. Schadler, R. Anderson, W. Dejeanlouis, C. Palmer, C. Mattioda, A. Glaser Schoff, S. Koester, J. Hittinger, P. Eash-Gates. 2024. *Utility Engagement Playbook for Industrial Customers: Addressing Power Sector Barriers to Electrification.* Synapse Energy Economics and World Wildlife Fund for Renewable Thermal Collaborative.

Mattioda, C., S. Shenstone-Harris, S. Schadler, J. Smith. 2024. *No-Regrets Solutions for Accelerating Grid Interconnection: How Fast-Track Interconnection Processes Cut Costs in SPP and MISO.* Synapse Energy Economics for Sun2o.

Takahashi, K., A. S. Hopkins, E. Carlson, S. Schadler, S. Chavin. 2024. *Memo: Assessment of Electric Grid Headroom for Accommodating Building Electrification (Revised July 2024)*. Synapse Energy Economics to New Yorkers for Clean Power.

S. Schadler, T. Hsieh. 2022. *Map of Colgate Landholdings 8/4/22*. Colgate University Department of Geography. Map accessible on ESRI's ArcGIS Online.

S. Schadler. 2022. *User's Guide for Colgate Landholdings Map*. Colgate University Department of Geography. Map accessible on ESRI's ArcGIS Online.

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