Erin R. Camp, PhD, Senior Associate

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PROFESSIONAL EXPERIENCE

Synapse Energy Economics, Inc., Cambridge, MA. *Senior Associate,* July 2018 - present.

Provides consulting and researching services and writes reports on a wide range of issues related to the electric industry. Performs project management, data analysis and modeling, energy policy and economics, programming, stakeholder engagement, and defensible high-quality research on energy topics including beneficial electrification and renewable energy resources. Key contributions include:

- Managing several projects for state agencies and national-level foundations on topics including electrification, energy storage, distributed generation, and energy efficiency
- Attending ISO-NE NEPOOL meetings on behalf of state agency clients
- Modeling the energy and economic impacts of energy storage on the state of Colorado, developing policy recommendations to support storage in the state, and working closely with stakeholders to refine the final report
- Building an electrification model to determine the impacts of various strategies for electrifying transportation and buildings in Newfoundland, Canada

The Cadmus Group (formerly Meister Consultants Group), Boston, MA. *Senior Analyst*, 2017 – 2018**.**

Managed projects and conducted qualitative and quantitative energy policy analysis for projects serving U.S. cities, states, utilities, foundations, and international governments. Key projects included:

- For the Cities of New York, Boston, Providence, and the District of Columbia, developed an analytical tool that can identify optimal residences for renewable heating and cooling technologies using publicly available data. The tool has been adapted to over twenty US cities and towns for several types of renewable heating and cooling technologies.
- Consulted for the Commonwealth of Pennsylvania to develop a roadmap for accelerating electric vehicle deployment in their state. Managed the research, scenario modeling, and stakeholder facilitation components of the project.
- For the Government of Jamaica, developed a computational application to monitor and track the economics of their country's energy projects, transportation projects, and energy efficiency programs over time. Trained key Energy Department personnel to use the tool.
- Managed a project to support the Government of Antigua and Barbuda in developing their next-generation National Energy Policy, which focuses on energy efficiency, renewable energy, and energy resilience strategies.

Cornell Energy Institute, Ithaca, NY. *Graduate Teaching and Research Assistant*, 2012 – 2017.

Provided teaching support for a course entitled *Analysis of Sustainable Energy Systems*.

U.S. Department of Energy, Washington, D.C. *Energy Systems Analyst,* 2012.

Researched and modeled the sensitivity of the price of geothermal electricity to advancements in various technologies, culminating in a list of critical technologies to recommend for future research funding. Self-taught the use of the DOE Excel-based techno-economic model, GETEM, within one month. Designed and conducted an industry-wide survey on research gaps for the future of geothermal energy, resulting in the conclusion that geothermal exploration methods need to be improved to reduce project risk.

EDUCATION

Cornell University, Ithaca, NY
Doctor of Philosophy in Geological Sciences, 2017. Designed and implemented three data-driven renewable energy research projects on low-temperature geothermal energy exploration, using a Department of Energy grant; mined, merged, and managed large spreadsheet-based datasets using GIS tools, MatLab, R, and Excel; self-coded a probabilistic mathematical model to analyze project datasets (MatLab); used robust statistical techniques for prediction of energy production; created concise visualizations for decision-makers.

Awards: NSF and Department of Energy Grant Recipient | Scholarship Recipient: Geothermal Resources Council, 2016; Estwing Award: Most Outstanding Graduate Student of Cornell Earth and Atmospheric Sciences Department, 2014-15.

Amherst College, Amherst, MA
Bachelor of Arts in Geology, 2011

PUBLICATIONS

Camp, E., B. Fagan, J. Frost, D. Glick, A. Hopkins, A. Napoleon, N. Peluso, K. Takahashi, D. White, R. Wilson, T. Woolf. 2018. *Phase 1 Findings on Muskrat Falls Project Rate Mitigation.* Prepared by Synapse Energy Economics for Board of Commissioners of Public Utilities, Province of Newfoundland and Labrador.

Knight, P., E. Camp, D. Glick, M. Chang. 2018. *Analysis of the Avoided Costs of Compliance of the Massachusetts Global Warming Solutions Act*. Supplement to 2018 AESC Study. Prepared by Synapse Energy Economics for Massachusetts Department of Energy Resources and Massachusetts Department of Environmental Protection.

Camp, E. and T. Jordan. 2017. Feasibility study of repurposing Trenton–Black River gas fields for geothermal heat extraction, southern New York. *Geosphere*; *13 (1): 22–35*. doi: 10.1130/GES01230.1.

Camp, E., T. Jordan, M. Hornbach, and C. Whealton. 2018. “A probabilistic application of oil and gas data for exploration stage geothermal reservoir assessment in the Appalachian Basin.” *Geothermics: 71, 187-199.* DOI 10.1016/j.geothermics.2017.09.001.

Tester, J., T. Reber, K. Beckers, M. Lukawski, E. Camp, G. Andrea Aguirre, T. Jordan and F. Horowitz. 2015. “Integrating Geothermal Energy Use into Rebuilding American Infrastructure.” *World Geothermal Congress*, Melbourne, Australia.

PRESENTATIONS

Repurposing the Trenton-Black River Gas Fields as Low-Temperature Geothermal Reservoirs in New York State, 2015, Conference of the American Association of Petroleum Geologists, Indianapolis, IN.

Geothermal Play Fairway Analysis of the Appalachian Basin: Lessons Learned in Reservoir Mapping and Characterization, 2015, Conference of the Geological Society of America, Baltimore, MD.

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