

Nina Peluso, Research Associate

Synapse Energy Economics | 485 Massachusetts Avenue, Suite 2 | Cambridge, MA 02139 | 617-453-7052
npeluso@synapse-energy.com

PROFESSIONAL EXPERIENCE

Synapse Energy Economics Inc., Cambridge, MA. *Research Associate*, September 2017 – Present

- Serve as one of Synapse’s primary energy systems modelers. Lead modeling efforts in EnCompass for near-term market simulation and long-term capacity expansion scenario analysis. Project experience in the ISO-NE, CAISO, and national footprints.
- Provide technical assistance to EPA on the AVERT emissions impact tool, including work with the COBRA health impacts tool, detailed fuel-type analysis, and future year assumptions development. Maintain Excel tools and datasets.
- Maintain detailed models of New England and other electricity systems to accurately estimate the value of energy efficiency technologies.
- Consult on best practices for integrated resource planning and policy development.

ICF, Fairfax, VA. *Research Assistant – Wholesale Power Markets*, August 2016 – August 2017

- Developed market assumptions and designed system modeling methodologies for developing nation Integrated Resource & Resiliency Plans.
- Assisted utility, governmental, and development institutions in long-term decision-making, planning, and modeling. Extensive work calibrating gas and electricity models.
- Tracked financial and operational data of power units for capacity expansion analysis.
- Utilized the Integrated Planning Model (IPM) to process complex market data.
- Developed detailed summaries of regional utility and ISO operations for internal use.

Social Science Data Analysis Network, Ann Arbor, MI. *Research Assistant*, September 2015 – May 2016

- Conducted intersectional research in complex systems and demography using NetLogo, ArcGIS, and U.S. Census data based on Thomas Schelling’s segregation model.
- Wrote *Data in the News* blog posts highlighting data use in current event coverage.
- Worked with ArcGIS, Photoshop, and Excel to develop branding and content for a weekly data visualization series.

DTE Energy, Detroit, MI. *Policy, Strategy & Advocacy Intern*, May - August 2015

- Compiled 30+ policy briefs on electric/gas operations to outline internal policy stances.
- Researched policy developments to inform legislative advocacy and executive action.
- Prepared talking points, memos, and other support materials for company executives.
- Assisted with metrics restructuring and consultant efficacy analysis by applying continuous improvement strategies.

EDUCATION

University of Michigan | Gerald R. Ford School of Public Policy, Ann Arbor, MI

Bachelor of Arts in Public Policy – Energy Systems; Minors in Complex Systems and Science, Technology & Science, 2016

PUBLICATIONS

Knight, P, A. Horowitz, S. Fields, N. Peluso. 2018. *Clean Energy for Los Angeles: An analysis of a pathway for 100 percent renewable energy in Los Angeles by 2030*. Prepared by Synapse Energy Economics for Food & Water Watch.

Horowitz, A., A. Allison, N. Peluso, B. Fagan, M. Chang, D. Hurley, P. Peterson. 2017. *Comments on the United States Department of Energy's Proposed Grid Resiliency Pricing Rules (FERC Docket RM18-1-000)*. Prepared by Synapse Energy Economics for Earthjustice.

Horowitz, A. I., N. Peluso. 2017. *Comments on Proposed Michigan Integrated Resource Planning Parameters*. Synapse Energy Economics memo to Michigan Public Service Commission Staff. Prepared for Sierra Club. October 5, 2017.

SKILLS

Energy Modeling: Skilled: EnCompass, Integrated Planning Model (IPM); Basic: PLEXOS

Data Management: Skilled: VBA, NetLogo, ArcGIS; Basic: Python, R, SPSS

Content Management/Manipulation: HTML, CSS, jQuery, Raiser's Edge, Adobe Creative, Photoshop

Resume dated March 2018