Dan Alberga

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC. New York, NY
Consultant

Mr. Alberga supports utilities, nonprofit organizations, and public agencies, and other E3 clients on demand-side decarbonization modelling and policy research. His expertise centers around decarbonization of heating in the buildings and industrial sectors. In these focus areas, he has conducted analyses on the economics of heat pump adoption, the impacts of heating decarbonization on the electric grid, and natural gas distribution network planning in a low-carbon future.

Prior to joining E3, Mr. Alberga completed a Master of Environmental Management at Yale University with a specialization in energy policy. Prior to graduate school, Mr. Alberga was an analyst at a renewable energy asset management software company. In addition to his M.E.M., Mr. Alberga holds a Bachelor of Commerce from McGill University.

Select E3 projects include:

Las Cruces Utilities Department, Natural Gas Transition Plan (2025-Present). Developing a modelling framework to assess the feasibility of different decarbonization pathways for the gas utility in Las Cruces, New Mexico.

Rhode Island State Government, 2025 Climate Action Strategy (2025-Present). Conducting an analysis of economy-wide decarbonization opportunities, with a focus on heating and transportation sectors.

Center for Alternative Environmental Law and Policy, Decarbonizing Industrial Heat (2024). Developed a techno-economic model for calculating the economics of decarbonizing industrial indirect heat across the US. Performed a screening analysis of policies which could help improve the economics of heat pumps across a wider number of facilities. The resulting research paper supports an ongoing effort to advance industrial decarbonization policy through efficient incentive programs and pricing schemes.

Natural Resources Defense Council, Avoiding Gas Distribution Pipeline Replacement Through Targeted Electrification in California (2024). Structured economic analysis for avoided pipeline replacement costs, examining how much California would save by avoiding the replacement of a subsection of state pipelines. Analysis supported an E3-produced white paper for NRDC's successful campaign to pass a state senate bill that would allow targeted electrification projects to become feasible.

Confidential Utilities, Analysis for Targeted Electrification in the Service Territory (2023-25). Structured the analysis on societal costs and benefits for E3 projects examining targeted electrification projects.

Confidential Advocacy Organization, Future of Gas Analysis (2024). Supported E3's analysis of ongoing state future of gas proceedings. Modeled how the implementation of different policies could help achieve the transition away from natural gas.

British Columbia Ministry of Energy, Mines, and Low Carbon Innovation (EMLI): Pathways and Integrated Utilities Modelling (2023-2024). Supported E3's analysis for EMLI in joint electric-gas planning and decarbonization exercises as client examined scenarios for decarbonization in British Columbia.

YALE SCHOOL OF THE ENVIRONMENT New Haven, CT
Teaching Assistant August 2022 – December 2022

- Led weekly review sessions, graded student problem sets and exams, and created visualizations and content for a graduate-level Energy Systems Analysis course

CENTRE FOR RESEARCH INTO ENERGY DEMAND SOLUTIONS (CREDS) Oxford, UK
Research Assistant May 2022 – July 2022

- Conducted a series of semi-structured interviews with modelling leads of the Positive Low Energy Futures project, wrote a report summarizing findings; insights gained from exercise adapted into a policy brief to better communicate the key assumptions of the model to stakeholders and decision-makers, such as civil servants and policy-makers

POWERHUB INC. Toronto, ON
Research Assistant February 2018 – May 2021

- Gathered client requirements and built custom energy asset management software modules, including performance, operations, accounting, and budgeting modules; deployed to over 10 gigawatts of solar, wind, and hydro projects
- Connected live meter, inverter, and weather data for projects in the Americas, Europe, and the Middle East to cloud platform
- Analyzed power purchasing agreements and utility tariff schedules; wrote code for relevant billing calculations in JavaScript

Education

Yale University New Haven, CT
Master of Environmental Management May 2023

McGill University Montreal, QC
Bachelor of Commerce, Finance May 2017