Dan Alberga

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

Mr. Alberga supports E3's Climate Pathways and Electrification group. Prior to joining E3, Mr. Alberga completed a Master of Environmental Management at Yale University with a specialization in energy policy. During his studies he developed a bottom-up model that estimates the total installation cost of retrofitting air-to-water heat pump systems for 10 million gas-connected dwellings in England and Wales using Energy Performance Certificates. He also created a 'Cooling Deprivation Index' using Residential Energy Consumption Survey microdata to assess the extent of inadequate cooling services among population subgroups, and modelled the effects of increased general laborer wages on financial viability of utility-scale solar projects using US Bureau of Labor Statistics data and System Advisor Model. 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.

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
- Received positive feedback on teaching clarity and effectiveness from students in the post-course evaluations

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
- Explored how the integration of ecosystem service frameworks into energy-climate modelling could affect the outcomes of low-energy demand pathways compared with conventional energy pathways; authored blog post summarizing findings

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
- Developed an invoicing module in cooperation with a state utility company in Jordan that resulted in automated monthly invoicing processes for 250 megawatts of utility-scale wind farms
- Created sample datasets for solar and wind projects and extrapolated production data for sales demonstrations

COPOWER INC. Toronto, ON
Intern Analyst May 2016 – August 2016

- Developed financial models and conducted sensitivity analyses to gauge the long-term profitability and feasibility of potential renewable energy projects with total CAPEX of $5 million, including geothermal, solar, and energy efficiency retrofits

Education

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

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