

ENERGY AND ENVIRONMENTAL ECONOMICS, INC.

New York, NY

Senior Consultant

Mr. Dahmm works with both public and private sector actors to analyze potential pathways for reaching decarbonization objectives. His work has included diverse analyses of decarbonization from facility-level greenhouse gas assessment to modeling of the economic impacts of state climate policy. His projects include the calculation of air quality health impacts related to energy planning, a qualitative review of hydrogen policy options for New York State, quantitative analysis to support New York City with its long-term energy planning, and assessments for multiple utilities of how climate actions may impact rates and customer affordability. He previously worked with the UN Sustainable Development Solutions Network, where he focused on how the global community can better use data in support of sustainable development. After graduating from Swarthmore College in 2015 with a BS in Engineering, he traveled to the UK as a Marshall Scholar where he completed an MSc in Sustainable Energy Futures at Imperial College and an MSc in Environmental Policy and Regulation at the London School of Economics.

Select E3 projects include:

- **SMUD EV load shapes (December 2024 – February 2025):** Developed EV charging profiles for different vehicle types under multiple charging incentives.
- **CARB H2 Analysis (August 2024-Present):** Evaluating the air quality and other environmental justice related implications of proposed H2 infrastructure in CA.
- **New Jersey Board of Public Utilities (Jan 2024-Dec 2024):** Modeled multiple climate pathways for NJ's Energy Master Plan and analyzed customer affordability implications.
- **USCA workforce assessment (May 2024-July 2024):** Conducted a literature review on climate job requirements and evaluated apprenticeship programs for USCA member states.
- **Nevada Energy climate pathways (Aug 2023 – Mar 2024):** Developed an economy-wide model of climate policies for NV, including a detailed separation of geographies served by NVE.
- **Rhode Island Energy BCA (September 2023 – October 2023):** Performed a cost-benefit analysis for EV incentive programs proposed by the utility company.
- **USCA 2023 pathways analysis (June 2023-September 2023):** supported pathways analysis for USCA member states and computed health benefits using EPA's COBRA tool.
- **Exelon Gas and Electric Planning (Jan 2022-Feb 2023):** Analyzed the projected changes in electric and gas rates and customer affordability for the Baltimore Gas & Electric (BGE) under different climate pathways.
- **ComEd Decarbonization Strategy (June-Oct 2022):** Analyzed the customer affordability implications of alternative climate pathways for ComEd customers in Northern IL.

- **NYSERDA Hydrogen Policy Options (May 2022-Feb 2023):** Reviewed the range of hydrogen policies pursued in the U.S. and internationally, and prepared a report with policy recommendations for NY state.
- **NYSERDA Innovation Market Impact (Feb-April 2023):** Reviewed recent NY investments into buildings innovation and prepared metrics for evaluating the impact of investments on rate payers.
- **Confidential Future of Gas Project (Feb 2023-May 2023):** Supported analysis of gas depreciation policies and an analysis of affordability impacts for different customer profiles.
- **Confidential Client, Carbon Neutrality Analysis (Feb-May 2022):** Performed a GHG analysis for an automotive parts factory, presenting how new equipment and procedures could support carbon neutrality targets.
- **NYC Long-Term Energy Plan (March 2022-Jan 2023):** Performed a review of energy transition policies from other major cities and led an assessment of the potential for in-city wind generation for the NYC Mayor's Office.

UN SUSTAINABLE DEVELOPMENT SOLUTIONS NETWORK

Manager: Data for Sustainable Development

Analyst: Data for Sustainable Development

New York, NY

July 2020 – November 2021

February 2018 – July 2020

- Responsible for research for the Thematic Research Network on Data and Statistics (TReNDS), looking at the improved availability of global environmental data, data sharing practices, data for disease surveillance, and more.
- Managed project portfolios on data governance and data uptake for sustainable development.

U. OF TENNESSEE, DEPT. OF ELECTRICAL ENGINEERING & COMPUTER SCIENCE

Research Assistant

Knoxville, TN

Summer 2014 & 2015

- Researched how distribution of renewables could impact electric grid stability and analyzed a consumer survey on residential demand response

Education

The London School of Economics and Political Science

M.Sc., Environmental Policy and Regulation

London, UK

2017

Imperial College

M.Sc., Sustainable Energy Futures

London, UK

2016

Swarthmore College

B.S., Engineering

Swarthmore, PA

2015

Public Presentations

1. *Working Scientist Podcast, speaker, March 2021*
2. *International Science Council webinar “Accounting for Everyone: Using Gridded Population Data for Sustainable Development,” panelist, June 2020*
3. *Apolitical webinar “How to Use and Share Data for The Public Good,” panelist, June 2020*
4. *GPSDD webinar “Leaving No One Off the Map: A Guide for Using New Methods for Population Estimation,” panelist, February 2020*
5. *Space Generation Congress, expert speaker, October 2019*

Publications

1. Dahmm, H. (2021). “Major Environmental Data Gaps Remain, But Progress is on the Horizon”. UNSDSN.
2. Dahmm, H., Moultrie, T. (2021). “Avoiding the Data Colonialism Trap”. UNSDSN.
3. Espey, J., & Dahmm, H. (2021). *Innovations in Disease Surveillance and Monitoring. Handbook of Global Health*, 317-338. Springer.
4. Dahmm, H. (2020). “Laying the Foundation for Effective Partnerships: An Examination of Data Sharing Agreements”. UNSDSN.
5. Dahmm, H. (2020). “Using Mobile Data for Health Monitoring: A Case Study of Data Sharing Between Ghana Statistical Services, Vodafone Ghana, and Flowminder Foundation”. UNSDSN.
6. Dahmm, H., Rabiee, M. (2020). “Leaving No One Off the Map: A Guide for Gridded Population Data for Sustainable Development”. UNSDSN.
7. Dahmm, H. (2019). “Development Gateway and the Government of Moldova Collaborate on a Data Management Plan: A Case Study by SDSN TReNDS for C4DC”. UNSDSN.
8. Espey, J., Badiee, S., Dahmm, H., Appel, D., & Noe, L. (2019). “Counting on the World to Act: A Roadmap for Governments to Achieve Modern Data Systems for Sustainable Development”. UNSDSN.
9. Orrell, T., Dahmm, H. (2019). “Demystifying data sharing: Insights from key stakeholders”. UNSDSN.
10. Dahmm, H. (2019). “UN Environment and Google Partnering to Monitor Global Surface Water: A Case Study by SDSN TReNDS for C4DC”. UNSDSN.
11. Dahmm, H. (2018). “Valuation of the New Zealand Census”. UNSDSN.
12. Espey, J., Dahmm, H., Manderino, L. (2018). “Leaving No U.S. City Behind: The U.S. Cities Sustainable Development Goals Index Issue 2018”. UNSDSN.
13. Dahmm, H., Bustos-Turu, G., Chatzopoulou, M., Acha, S. and Shah, N. (2017). “Techno-Economic Analysis and Trade-Offs of Cooperative Community Energy Planning Schemes in the UK”. ECOS 2017. San Diego, CA.