

## **ENERGY AND ENVIRONMENTAL ECONOMICS, INC.**

New York, NY

*Senior Consultant*

Mr. Dahmm supports E3's Climate Pathways and Electrification team. His work has included the GHG assessment of a factory looking to achieve carbon neutrality, a qualitative review of hydrogen policy options for New York State, quantitative analysis to support NYC 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. He now works with both public and private sector actors to analyze potential pathways for reaching decarbonization objectives.

Select E3 projects include:

- **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-Present):** Supported an 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**

New York, NY

*Manager: Data for Sustainable Development*

July 2020 – November 2021

- 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.
- Worked with international researchers to introduce a dataset on electricity access to a platform of timely SDG data.

*Analyst: Data for Sustainable Development*

February 2018 – July 2020

- Assisted with research for SDSN TRenDS.
- Developed the 2018 United States Sustainable Cities Index.
- Prepared a series of case studies on the value of data for sustainable development.
- Interviewed experts and reviewed literature to author a report on gridded population data for policy makers.

**U. OF TENNESSEE, DEPT. OF ELECTRICAL ENGINEERING & COMPUTER SCIENCE**      Knoxville, TN  
*Research Assistant*      Summer 2014 & 2015

- Researched how distribution of renewables could impact electric grid stability.
- Analyzed a consumer survey on residential demand response to understand need for utility incentives.

**PURDUE UNIVERSITY, DEPARTMENT OF CHEMICAL ENGINEERING**      West Lafayette, IN  
*Research Assistant*      Summer 2013

- Researched feasibility of carbon sequestration method involving nanometric calcium carbonate production.

**SWARTHMORE COLLEGE, DEPARTMENT OF ENGINEERING**      Swarthmore, PA  
*Research Assistant*      Summer 2012

- Advanced assistive technology for the blind in the STEM disciplines, developing original hardware and software

## Education

The London School of Economics and Political Science      London, UK  
*M.Sc., Environmental Policy and Regulation*      2017

Imperial College      London, UK  
*M.Sc., Sustainable Energy Futures*      2016

Swarthmore College      Swarthmore, PA  
*B.S., Engineering*      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.