Disha Trivedi

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.   Boston, MA
Consultant

Disha Trivedi supports E3's climate pathways and electrification practice on projects analyzing decarbonization options and pathways for states and utilities. She has supported decarbonization and clean heat analysis for several dual fuel utilities looking to electrify, contributing analysis on the role biofuels and/or hydrogen play in decarbonization scenarios. She has also examined affordability impacts, customer costs, zonal electrification, and a comprehensive hydrogen outlook for clients across the country. Disha came to E3 after earning a Master of Science in Technology and Policy from MIT, where her research assessed the environmental health effects of fossil fuel emissions and wildfire smoke. While at MIT, she supported the Massachusetts Legislature's special task force on per- and polyfluoroalkyl substances (PFAS) pollution policy. Prior to her time at MIT, she applied her background as a biologist to support conservation efforts in New Zealand.

Select E3 projects include:

Confidential Dual-Fuel Utility, Building Electrification Analysis (2022-2023). Supported E3's development and implementation of a more nuanced cost test for zonal electrification. Configured publicly available gas data to generate information for zonal electrification analysis (like census tract level costs). Evaluated feasibility of zonal electrification working with client's feasibility assessment.

New Mexico Environment Department, Pathways to Decarbonization (2023-2024). Lead PYTHON PATHWAYS analyst in support of the development of an updated New Mexico emissions inventory. Running modeling scenarios that examine and compare reference emissions trajectory with decarbonization scenarios.

PG&E, Wildfire Risk Assessment (2023). Interviewed PG&E experts and external stakeholders to include their perspective into E3's review of PG&E's wildfire risk model. Drafted recommendations for updates to the model and process and delivered these recommendations to PG&E.

Confidential Dual-Fuel Utility, Gas Decarbonization Analysis (2023). Led modeling and analysis in E3's RESHAPE model, examining changes to load shapes as the utility decarbonizes its building stock. Supported biofuels analysis as part of E3's analysis of gas and electric device adoption and the downstream impacts of different adoption trajectories.

NYSERDA, Hydrogen Policy Roadmap (2022). Contributed quantitative analysis of the use cases for hydrogen applications in the New York economy. Examined potential avoided emissions. Prepared deliverables for client.

SELIN GROUP | MIT SUPERFUND RESEARCH PROGRAM   Cambridge, MA
Graduate Research Assistant   September 2020 – September 2022

- o Programmed environmental models to analyze the contribution of fossil fuel energy emissions to global human cancer risk.
- o Presented findings to multinational stakeholders including the Arctic Council and the UN Economic Commission for Europe.

MASSACHUSETTS STATE LEGISLATURE   Boston, MA
PFAS Interagency Task Force Fellow   June 2021 – April 2022

- o Co-drafted an 80-page Task Force Report containing a comprehensive set of environmental legislation recommendations for the Commonwealth of Massachusetts to address toxic PFAS contamination in consumer products and drinking water.
- o Organized public hearings and conducted 20 stakeholder interviews with industry representatives, academic scientists, community advocates, and federal, state, and international environmental agencies.

MICHAEL C. ROCKEFELLER MEMORIAL FELLOWSHIP   Auckland, NEW ZEALAND
Postgraduate Fellow   September 2019 – March 2020

- o Collaborated with local conservation organizations to remediate North Island waterways.

UNIVERSITY OF EDINBURGH ENGINEERING LIFE GROUP   Edinburgh, UK
Research Assistant, International Biology Policy   May – Jul 2018, Jun – Aug 2019, Apr – Aug 2020

- o Assessed stakeholder engagement plans to solicit input to synthetic biological governance.

SILVER LABORATORY AT HARVARD MEDICAL SCHOOL   Boston, MA
Researcher, Living Diagnostics & Sustainable Materials   June 2017 – May 2019

- o Synthesized bacteria that convert CO_2 into biodegradable plastic.
- o Engineered FDA-approved probiotic bacteria to detect inflammatory bowel disease in humans.

Education

Massachusetts Institute of Technology   Cambridge, MA
M.S., Technology and Policy   September 2022

Harvard University   Cambridge, MA
A.B., Molecular and Cellular Biology   May 2019