Sophia Greszczuk

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC. Boston, MA
Senior Consultant

Sophia Greszczuk supports E3's work in asset valuation, with a focus on energy storage and distributed energy resources. She has deep expertise in modeling a range of storage technologies and configurations using RESTORE, E3's in-house storage optimization model. She also specializes in evaluating nodal basis risk and forecasting nodal prices, particularly for storage related applications. Ms. Greszczuk's work in distributed energy includes program evaluation, revenue forecasting, and transaction diligence including support for state agency analysis, investment banks, and renewable energy developers. She has experience evaluating community solar programs across the United States. Ms. Greszczuk came to E3 after earning a Bachelor of Arts in Biology and Environmental Studies from Dartmouth College.

Select E3 projects include:

Massachusetts Clean Energy Center, Energy Storage Market Update and Long Duration Storage Study (2023). Sophia developed a set of business cases examining battery revenues in Massachusetts. She modeled a variety of storage configurations including multiple front-of-the-meter and behind-the-meter options to explore how different factors will impact storage revenues and future storage deployment. Included state incentives in an Excel model optimization. E3 used this modeling to evaluate the success of incentive programs, and give policy recommendations to the state.

Confidential Investment Banks (2024). Sophia has led transaction support for confidential investment banks looking at a variety of targets. This analysis often includes revenue projections, market sizing, and red/green flag analysis.

Confidential Renewables Developer, Asset Diligence Project (2023). For a confidential developer buying a portfolio of renewable assets, E3 determined revenues for each asset. Sophia examined filed tariffs, historic retail rates, and future wholesale price projections to understand the evolution of rates. This forecast shaped E3's evaluation of revenue for these assets through 2050.

ONG LAB, DARTMOUTH UNIVERSITY Hanover, NH
Research Assistant June 2021 – June 2022

- Conducted formal ecological forest tree surveys to establish a long-term agroforestry census plot. Tracked how a managed agroforestry system compares to secondary and primary forest sites across the world as the climate warms.
- Created, managed, and performed analysis with R on a spatial database - part of the international ForestGeo database.

CLIMATE INSTITUTE Washington, DC
Researcher September 2020 – June 2021

- Assessed microclimate conditions for use as instrumental variables to find meaningful effects of temperature change.
- Investigated government programs that affect microclimates. Evaluated the effect of temperature change on human health and economic growth by means of regression discontinuity design.

TRUDATARX INC. White River Junction, NH
Clinical Data Analyst Intern June 2020 – September 2020

- Worked with a clinical team to write reports about the biological functioning of drugs in the body to compare the efficacy and cost of different pharmaceuticals.
- Evaluated scientific studies to extract the most accurate, current, and relevant data from the literature. Interpreted large amounts of data and managed the database.
- Used clinical efficacy data points and scientific literature to create meaningful summary reports for patients and doctors.

Education

Dartmouth College Hanover, NH
B.A., Biology and Environmental Studies June 2022