

Sam Schreiber

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC. *Consultant*

San Francisco, CA

Sam Schreiber supports utilities and state regulatory agencies with long-term capacity expansion, resource cost, and emissions modeling as part of their integrated system plans. His recent work includes supporting the California Public Utilities Commission (CPUC) Integrated Resource Plan (IRP) on cost impacts due to the Inflation Reduction Act (IRA), including hydrogen fuels and other emerging technologies. He also performs geospatial analysis of resource potential throughout the western US for the CPUC. Other projects include the Salt River Project (SRP) Integrated System Plan (ISP), where he supports capacity expansion modeling in PLEXOS LT and quantifies emission reductions over the modeling horizon.

Prior to joining E3, Mr. Schreiber was a Research Assistant with the McGehee Group at the University of Colorado Boulder, where he developed enhanced process controls to improve the efficiencies and reproducibility of perovskite-tandem solar cells. He previously worked for two years as an analyst at ForeFront Power, a mid-scale (100 kW – 10 MW) solar project developer, where he conducted market and policy research for Eastern markets, including NY VDER, MA SMART, and IL ABP.

UNIVERSITY OF COLORADO BOULDER, MCGEHEE GROUP *Graduate Research Assistant*

Boulder, CO
2020 - 2022

- Fabrication and characterization of efficient, reproducible, and stable perovskite solar cells
- Implemented enhanced pneumatic and electronic process controls and standardized fabrication procedures to improve device reproducibility and baseline efficiencies
- Optoelectronic and thin-film characterization to understand limitations to device performance
- Collaboration with NREL staff scientists on experimental design and device characterization

FOREFRONT POWER *Senior Analyst, Sales*

San Francisco, CA
2018 – 2020

- Developed economic, financial, and energy system models to determine the viability of solar PV and energy storage systems for commercial behind-the-meter and community solar applications
- Subject-matter expert for state policy, legislation, rates, and incentive programs
- Led sales, marketing, development, and engineering teams to respond to RFP opportunities
- Streamlined analysis methodology to improve throughput of entire analyst team
- Analyzed and presented financial metrics internally and savings analyses to customers

TSINGHUA SOLAR SYSTEMS *International Business Development Intern*

Beijing, CHINA
2016

- Prepared prospectus for potential joint-venture partners on residential solar-thermal systems in the U.S. and India

Education

Stanford University
M.S., Civil Engineering

Stanford, CA
2018

Stanford University
B.S., Engineering Physics

Stanford, CA
2017

Publications

Strand, E. J., et. al., "Printed Organic Electrochemical Transistors for Detecting Nutrients in Whole Plant Sap." *Adv. Electron. Mater.* 2021, 2100853. <https://doi.org/10.1002/aelm.202100853>