Robbie Shaw

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.   San Francisco, CA
Consultant II

Mr. Shaw joined E3 in 2017 after completing his Master of Chemical Engineering from the Massachusetts Institute of Technology (MIT). His work focuses on developing and customizing E3's modeling tools to evaluate a broad range of distributed energy resources (DER), including solar PV, energy storage, and electric vehicles. He also contributes to pro forma analysis supporting the financing of innovative DER projects. Prior to his work at E3, Mr. Shaw created models for various energy applications including biofuel production and catalyst development for fuel cells.

Mr. Shaw has contributed to recent high-profile E3 projects including the New York State Energy Storage Roadmap (for the New York State Energy Research and Development Authority and the New York State Department of Public Service) and the California Self-Generation Program Incentive (SGIP) program evaluation for customer-sited energy storage projects (for the California Public Utilities Commission). Other notable recent projects include:

- **California Energy Commission (CEC) EPIC Solar + Storage Tool, 2017 – Present.** Developing a solar + storage tool to evaluate and optimize the dispatch, operations, and value proposition for integrated solar + storage systems, and to identify high-value distribution deferral opportunities for California investor-owned utilities.
- **Hawaiian Electric Companies Electrification of Transportation Strategic Roadmap, 2018.** Technical lead on a project analyzing costs and benefits of plug-in electric vehicles and identifying high-impact utility actions to promote EV adoption, minimize costs and grid impacts, and maximize ratepayer benefits.
- **EPRI Value of Vehicle-to-Grid (V2G) in California, 2018.** Analyzed the grid benefits of distribution-aware vehicle-to-grid (V2G) services performed by a fleet of EVs, finding that V2G flexibility provided significant additional value compared to simply reducing on-peak loads with one-way smart charging.

CHEVRON   San Ramon, CA
Environment and Climate Change Team   Summer 2016

- Wrote reports on the viability of COP21 emissions reduction pledges from countries where Chevron had strategic business interests
- Conducted a trend analysis on Chevron's existing Environmental Stewardship procedures and contributed to the creation of a more streamlined waste evaluation protocol
- Presented results from COP21 and Environmental Stewardship analysis to Chevron's Vice President of Health Environment and Safety and other executives.

NAVIGANT CONSULTING   Boulder, CO
Energy Practice Intern   January 2016

- o Conducted research on the energy efficiency potential and adoption rates of smart appliances and lighting systems in North America; presented findings to Managing Director of the Boulder office
- o Constructed portions of an Analytica model which forecasted changes in office building energy consumption in developing countries

ALTMAN VILANDRIE & COMPANY   Boston, MA
Analyst   Summer 2015

- o Evaluated the viability of a client's growth strategy by conducting primary and secondary research on potential target markets and technologies
- o Extracted industry trends from raw survey data with 3,500 respondents using Excel; modeled and analyzed changing consumer preferences for a presentation to a major movie studio

TU DELFT MATERIALS FOR ENERGY CONVERSION AND STORAGE   Delft, NL
Solar Fuels Materials Intern   Summer 2014

- o Performed UV/VIS Spectroscopy and used a solar simulator to measure the electrochemical properties of mixed metal oxide catalysts used in water splitting
- o Presented analysis of catalyst research and industry applications demonstrating the potential of cutting costs of solar fuel production by 15%

Education

Massachusetts Institute of Technology (MIT)   Cambridge, MA
M.S., Chemical Engineering   2017

Massachusetts Institute of Technology (MIT)   Cambridge, MA
B.S., Chemical Engineering, Minor in Economics   2016

Citizenship

United States