Dieter Smiley, P.E.

44 Montgomery Street, Suite 1500, San Francisco, CA 94104
dieter.smiley@ethree.com

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

Mr. Smiley joined E3 in 2021 and supports the Asset Valuation group. Most recently, he worked as an engineer at the California Air Resources Board helping fuel production companies participate in the Low Carbon Fuel Standard program. Prior to that, he worked on the RPS team at the California Public Utilities Commission, reviewing renewable energy contracts, ensuring RPS compliance for load serving entities, implementing California's Bioenergy Feed-In Tariff, and developing a greenhouse gas life cycle assessment tool for distributed bioenergy projects. Mr. Smiley holds an M.S. in Civil and Environmental Engineering from the University of California, Berkeley, and both a B.S. from The Ohio State University.

CALIFORNIA AIR RESOURCES BOARD   Sacramento, CA
Air Resources Engineer, Industrial Strategies Division   December 2020 – January 2022

- o Performed greenhouse gas life cycle assessment of hydrogen, electricity, and renewable gas transportation fuels involving biomass, livestock manure, landfill organic waste, and carbon capture and sequestration.
- o Researched industry publication, peer-reviewed literature and policy to inform responses to stakeholder questions
- o Prepared presentations and briefing documents to inform decisions made affecting LCFS policy and regulations
- o Worked closely with pathway applicants and project developers to navigate the LCFS program, resolve abstract issues related to LCFS policy, and ensure program compliance.

CALIFORNIA PUBLIC UTILITIES COMMISSION   San Francisco, CA
Utilities Engineer, Energy Division   August 2018 – November 2020

- o Researched and developed a project-specific, life cycle assessment model estimating the net criteria and greenhouse gas emissions of bioenergy projects relative to an alternate fate of eligible fuel resources. Time-based GHG impacts were modeled with IPCC equations estimating atmospheric persistence of CO_2, CH_4, and N_2O.
- o Analyzed and visualized renewable energy market data to make inferences and determine statistically supported conclusions about load serving entities related to load variation, changing customer profiles, and project siting.
- o Engaged with internal teams and external companies, state agencies, and non-governmental organizations to provide technical reviews and respond to inquiries relevant to renewables portfolio standards, grid interconnection, and electric vehicle support equipment.
- o Worked with the Integrated Resource Planning team to support coordination efforts with RPS, as needed.
- o Performed legislative and policy analysis to write commission resolutions and support energy division programming.

ROLLS-ROYCE NORTH AMERICA   Indianapolis, IN
Manufacturing Engineer   March 2016 – July 2017

- o Used data and statistical process controls to identify production issues and to propose improvements and experiments that reduce operational costs and quality risks in manufacturing processes.
- o Applied robust, iterative design methods using VBA, computer aided design and parametric optimization software.
- o Demonstrate ability to interface with multiple engineering functions, mechanics, and vendors to effectively develop and communicate technical assembly directions targeting improved engine performance.

Education

University of California, Berkeley   Berkeley, CA
M.S., Civil and Environmental Engineering   May 2018

The Ohio State University   Columbus, OH
B.S., Industrial Systems Engineering   December 2015

Certifications and Trainings

- o Professional Mechanical Engineer (License No.: 40539), California (Issued July 2021)
- o Utility Rate School, National Association of Regulatory Utility Commissioners (NARUC) (Oct. 2020)
- o Economics of Energy and the Environment, Energy Institute at Haas (Jan. 2020)