Hugh Somerset

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

Mr. Somerset joined E3 in 2022 after studying Energy Engineering at UC Berkeley with a focus on distribution grid planning and mitigation strategies of grid-caused wildfires. During his studies, Hugh worked in resource valuation at Ascend Analytics and deploying DERs for deferring distribution grid investments at PG&E.

PACIFIC GAS & ELECTRIC COMPANY   San Francisco, CA
Integrated Grid Planning Intern   May 2021 – August 2021

- o Interdisciplinary team coordinating PG&E's Distribution Resource Plan pursuant to CPUC Rulemaking 14-08-013.
- o Operated and improved DER Service Requirements Workbook to identify opportunities to defer traditional grid upgrades at capacity-constrained feeders using DERs.
- o Analyzed and interpreted CPUC regulatory documents to verify PG&E's full compliance with regulatory requirements.
- o Designed and implemented validation tests for data published in the Grid Needs Assessment (GNA) and Distribution Deferral Opportunities Report (DDOR).

FOWLIE RESEARCH GROUP   Berkeley, CA
Research Assistant   August 2020 – May 2021

- o Project estimating the co-benefits of improved air quality due to the Clean Air Act and seeking evidence of regulatory rebound.
- o Applied a particle transport model, InMAP, to track plant-level emissions from over 1000 individual coal power plants.

ASCEND ANALYTICS   Oakland, CA
Energy Analyst Intern   June 2020 – July 2020

- o Analyzed strategic operation of grid-scale batteries in wholesale electricity markets
- o Created a Python model to forecast future ELCC values of wind and solar resources by ISO.
- o Processed outputs of in-house electricity market simulation models.

Education

University of California, Berkeley   Berkeley, CA
B.Sc., Energy Engineering   May 2022