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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.
Consultant

New York, NY

Mr. Joseph is a pragmatic energy policy analyst with experience in power market regulation, energy system modeling, tariff analysis, project development, project management, finance, and software development. He joined E3 after completing a Master in Public Policy degree at Duke University. While at Duke, Mr. Joseph interned at the Federal Energy Regulatory Commission, focused his research on transmission policy and market design, and enjoyed course work in Power Markets, Energy System Modeling, and Energy Law. He has also worked for Nikola Power, an energy storage technology startup where he focused on business development, market analysis, and product development strategy. In addition to his M.P.P., Mr. Joseph holds a B.A. in Environmental Science from Colorado College.

Recent E3 projects include:

Interregional Transmission Project Benefit Analysis in Eastern Interconnect, Confidential Transmission Developer, 2023. Mr. Joseph supported a transmission developer in evaluating production cost savings from expanding interregional transfer capabilities between two Eastern Interconnect regions. As part of this work, Mr. Joseph developed inputs including load and resource projections to 2030, as well as detailed mapping to match capacity additions with specific substations throughout the regions. These inputs were fed into GridView for production cost and transmission modeling.

Interregional Transmission Project Benefit Analysis in WECC and ERCOT, Confidential Transmission Developer, 2023. Mr. Joseph supported a transmission developer in evaluating benefits from a new interregional intertie between ERCOT and the WECC. Mr. Joseph executed PLEXOS LT and ST model to evaluate changes in optimized capacity expansion and production costs under transmission development scenarios.

California Transmission Planning Advocacy Strategy, Natural Resource Defense Council (NRDC), 2022. Mr. Joseph supported NRDC in identifying options for strategic advocacy initiatives to address barriers to transmission planning in California in service of the state's policy goals. Mr. Joseph reviewed RTO business manuals and transmission tariffs to profile CAISO planning processes, supported a cross-jurisdictional review of best practices in transmission planning across the country, developed case studies illustrating key barriers to transmission expansion in California, and developed policy recommendations for NRDC.

Transmission Benefit Accrual Study, Electricity Canada, 2022. Mr. Joseph supported Electricity Canada in exploring solutions to benefit accrual and cost allocation in a multi-party interregional transmission planning scenario. Mr. Joseph helped conduct a literature review of challenges and best practices in transmission benefit quantification and helped design a benefit calculator tool for facilitating transparent cost allocation negotiations between transmission planning authorities.

NATIONAL ASSOCIATION OF REGULATORY UTILITY COMMISSIONERS (NARUC) Remote
Student Researcher, Center for Partnership & Innovation 2021 – 2022

- Researched governance models to improve interstate transmission planning
- Interviewed regulators at joint federal-state task force on transmission planning

FEDERAL ENERGY REGULATORY COMMISSION (FERC) Remote
Student Trainee, Office of Energy Market Regulation – East Division Summer 2021

- Prepared and presented research on efforts to reform capacity valuation techniques for renewable energy and energy storage resources in eastern RTO capacity markets
- Contributed to project team preparing a Commission Order for the ELCC filing accepting PJM's methodology to value energy resources in the PJM capacity market
- Reviewed new filings and drafted Delegated Letter Orders for publishing in the Federal Register to make formal updates to utility and RTO/ISO tariffs

NICHOLAS INSTITUTE FOR ENVIRONMENTAL POLICY SOLUTIONS Durham, NC
Research Assistant, Climate and Energy 2020 – 2022

- Researched the benefits, potential governance structures, and political feasibility of forming a competitive market for resource adequacy in the Pacific Northwest
- Wrote white paper on the impact of COVID-19 on electricity consumption trends

NIKOLA POWER Denver, CO
Senior Associate, Business Development and Finance 2019 – 2020
Analyst, Business Development 2017 – 2019

- Consulted with utilities on designing energy storage-friendly retail tariff structures
- Analyzed and developed proposals for 300 MW of solar and energy storage projects utilizing proprietary optimization software and techno-economic models
- Designed optimization software development roadmaps and go-to-market strategies
- Managed a group of three interns performing market analysis and proposal development

Education

Duke University, Sanford School of Public Policy Durham, NC
Master of Public Policy, Energy and the Environment May 2022

Colorado College Colorado Springs, CO
B.A., Environmental Science May 2015