

**ENERGY AND ENVIRONMENTAL ECONOMICS, INC.**  
*Consultant*

San Francisco, CA

Ms. Cole supports the analyses of transmission projects across the Western interconnection including assessments on Energy Imbalance Market (EIM) benefits via simulations on the PLEXOS economic dispatch tool, and transmission market valuations for developers in California and Arizona. Prior to E3, she worked as an Associate Projects Engineer for a Kenyan-based electric utility where she supported the management of the national grid system through field assignments. Most recently, she served as a Utilities Engineer for the California Public Utilities Commission (CPUC) where she conducted technical and policy analyses for transmission and distribution projects. In this role, she was instrumental in representing the CPUC in state-wide planning forums to discuss offshore wind transmission, and in formalizing the CPUC's comments on California's offshore wind generation Assembly Bill (AB) 525.

Select E3 experience includes

- Conducting energy market assessments by supporting the development of PLEXOS-based dispatch models used to evaluate the benefits and costs of participating in the Western Energy Imbalance Market (EIM)
- Developing transmission evaluation studies to determine the cost of delivering renewable resources within the Western Interconnect region including resource costs, transmission and wheeling costs, and transmission losses under different scenarios.
- Compiling analyses and presentations on California's transmission market by reviewing the Transmission Planning Process (TPP) and determining strategies for potential transmission upgrades and Offshore Wind transmission infrastructure development opportunities.
- Supporting market studies to identify strategic development opportunities for solar and storage technologies by considering resource needs, value, and offtake potential within the Western Market

**CALIFORNIA PUBLIC UTILITIES COMMISSION – PUBLIC ADVOCATES OFFICE** San Francisco, CA  
*Utilities Engineer/ Intern* May 2019 – July 2021

- Conducted technical and policy analyses on grid system planning projects including transmission cost evaluations, grid reliability and resiliency assessments, and Distributed Energy Resource (DER) tariff design.
- Prepared proposals and data requests used to file testimony in evidentiary hearings.
- Developed and presented research findings before Public Advocates Office management and articulated recommendations on grid system operability and resource planning.
- Facilitated engagements with industry stakeholders on resource planning activities and wrote internal memos, reports, and comments for stakeholder processes.
- Represented the Public Advocates Office at planning workshops such as the California Independent System Operator's Transmission Planning Process, the Western Energy Coordinating

Council's Transmission Expansion Planning (Capital Cost Guide) process and the Distribution Planning Advisory Group meetings.

**KENYA POWER AND LIGHTING COMPANY**

*Associate Projects Engineer*

Nairobi, KENYA  
May 2017 – July 2018

- Underwent training on the national grid system infrastructure. Training included the design, construction, and management of the grid via rotational assignments across key departments.
- Consulted on energy loss management initiatives such as customer service delivery enhancement, use of pre-paid smart meters and the implementation of Energy Management System (EMS) software.
- Performed site visits to support the operation and maintenance of power lines and substations, including grid monitoring at the National Control Centre.
- Engaged in gender mainstreaming and female empowerment initiatives.

**Education**

The University of San Francisco  
*M.S., Energy Systems Management*

San Francisco, CA  
May 2020

The University of Nairobi  
*B.S., Electrical and Electronics Engineering*

Nairobi, KENYA  
May 2011

**Citizenship**

Kenya, United States (Permanent Resident)