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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.
Senior Consultant

Calgary, AB

Mr. Arthur works on E3's market price forecasts focusing on the PJM and ISO-NE markets. Additionally, he contributes to market-specific analysis for clients across major US and Canada energy markets evaluating the value of energy, resource adequacy, ancillary services and RECs and transaction diligences for buy/sell-side clients covering a variety of assets including renewables, storage and gas. He is an electrical engineering professional with over 12 years' experience spanning diverse roles in Power System Operations and Maintenance, Energy Economics & Policy, Regulation and Project implementation. He worked for more than six years at Ghana Grid Company (GRIDCo), where he undertook wide-ranging tasks from power systems protection & control to managing electricity market and settlement processes. Before that, he spent four years at the Ministry of Energy in Ghana, where he coordinated electrification to over 145 rural communities amongst other power generation and transmission projects. Mr. Arthur holds an M.Sc. in Electrical Power Engineering with Business from the University of Strathclyde, UK and a B.Sc. in Electrical/Electronic Engineering from Kwame Nkrumah University of Science and Technology.

Select E3 projects include:

Confidential Developer, Large Load Growth Strategic Support, 2024. Supported a leading US clean energy developer to identify near-term opportunities for datacenters by assessing large load opportunities given the location of their existing and future assets and provided strategic recommendations on commercial implications and key execution considerations.

Salt River Project (SRP), Regional Energy Transition Benchmarking Study, 2022 - present. Contributed to an E3 benchmarking study for SRP comparing other US utilities. The project included three core components to be updated quarterly: research on state and utility RPS/CES goals; Integrated Resource/Supply Plan summaries of all utilities; and metadata highlighting existing projects and planned projects from interconnection queues. Collated the entire list of state/utilities RPS/CES goals, handled all utilities IRP summaries. Additional recent tasks (2024) include providing support on contracting and opportunities for utilities regarding datacenter and large user energy requirements.

Transaction Diligences for Renewables, Storage and Gas Assets, Confidential Clients, 2022 - present. Built a financial model to complete market revenue analysis for hydro assets. Also completed voluntary REC forecasting for multiple confidential E3 clients. Recent tasks (2024) include re-developing E3's existing gas dispatch tool to address progressively detailed requests from clients.

BEST BUY CANADA
Omni-Channel Specialist

Calgary, AB
December 2021 – March 2022

- Created an amazing customer experience via all retail touchpoints by understanding customer needs, identifying and creating solutions to meet their needs and expectations.
- Monitored and fulfilled online orders with in-store merchandise in a timely manner and completed all Ship-from-Store and Buy Online, Pickup In-Store activities.

GHANA GRID COMPANY LIMITED (GRIDCo)*Electrical Engineer – Market Operations*

GHANA

March 2019 – May 2021

- Conducted research to address energy sector issues and Market Participant concerns pertaining to metering, settlement, grid operations, regulatory processes and practices.
- Participated in the development and review of Market Rules for the Ghana Wholesale Electricity Market.
- Assisted prospective Market Participants with grid connection application processes and reviewed completed applications.
- Conducted Grid Impact Study for the connection or disconnection of new power generators/loads to the power grid.
- Performed real time compliance monitoring to ensure system measurands complied with electricity industry standards.
- Prepared and/or coordinated the provision of technical reports to regulators and stakeholder groups.

Protection & Control Engineer

February 2015 – February 2019

- Carried out commissioning, testing and validation of HV electric grid equipment.
- Troubleshoot and resolved faults using P&C layouts and wiring diagrams, AC/DC schematics, Substation single line diagrams.
- Conducted periodic trip testing of Transformer and Line Protection relays and thermovision scanning on transmission installations in line with asset & risk management policies.
- Reviewed settings to protective relaying systems and provided support for field installations.

MINISTRY OF ENERGY, GHANA*Project Coordinator / Electrical Engineer*

GHANA

December 2010 – January 2015

- Managed and coordinated power generation, transmission and government Rural Electrification projects to over 145 communities helping increase electricity access rate from 64% to 78% over the period.

Education

University of Strathclyde

M.Sc., Electrical Power Engineering with Business

Glasgow, UK

August 2012

Kwame Nkrumah University of Science and Technology

B.Sc., Electrical/Electronic Engineering

Kumasi, GHANA

May 2009