

# Oluwafemi (Femi) Sawyerr

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

San Francisco, CA

Mr. Sawyerr joined E3 in 2016 and works in E3's planning group, where he helps utilities, state agencies, grid operators, and project developers prepare for and implement a modern electricity grid that utilizes large amounts of variable renewable resources. He works extensively with E3's proprietary RESOLVE model to optimize long-term investments in generation and transmission resources subject to reliability, technical, and policy constraints. Mr. Sawyerr received an M.S. in Natural Resources and Environment from the University of Michigan and a B.S. in Applied Physics from the University of Lagos in Nigeria. Select E3 projects include:

- Served as technical lead on a project analyzing the land use implications of California's renewable energy mandates aimed at achieving steep economy-wide GHG emissions reductions by 2050
- Analyzed the impact of deep decarbonization scenarios on a Midwest utility's system over the 2020-2034 planning period to support the utility's IRP filing before its state regulatory commission. Using E3's RESOLVE model, identified optimal resource investment portfolios in the context of state and corporate long-term greenhouse gas reduction targets.
- Helped conduct the Pacific Northwest Low Carbon Scenario Analysis, a study of alternative policies for reducing electric sector carbon emissions in the Northwest. Using E3's RESOLVE model, developed optimized generation portfolios for the region through 2050 that capture the unique characteristics of the Northwest hydro system.
- Projected benefits from participating in the Western energy imbalance market (EIM) for a utility in the Pacific Northwest
- Helped identify electricity rate structures to promote the widespread electrification of transit on behalf of a large statewide transit association
- Evaluated the potential benefits of a flexible hydro resource and a pumped storage asset in California and the Pacific Northwest under high penetrations of renewable generation
- Developed an economic model to analyze the economics and operations of a renewable energy aggregator in South Africa

## **UNIVERSITY OF MICHIGAN** **MECHANICAL ENGINEERING DEPARTMENT**

*Graduate Student Research Assistant*  
*Volunteer Research Assistant*

Ann Arbor, MI  
May 2014 – August 2014  
October 2015 – May 2016

- Assisted with selection process for faculty and student membership on the research team
- Conducted literature reviews on sustainability, policy, economic and business perspectives in the development of manufacturing in less developed countries globally, and how methods could be translated to an African case study

- Drafted proposal to support sustainable manufacturing in less developed countries; final proposal submitted to the University of Michigan’s Global Challenges for the Third Century Initiative

**LITTLE TRAVERSE BAY BANDS OF ODAWA INDIANS (LTBB)**

*Student Consultant*

Harbor Springs, MI  
April 2014 – May 2015

- Collaborated with a 7-member interdisciplinary multinational team to help LTBB meet energy goals of 25% renewable energy usage by 2020
- Revised client’s energy goals to 25% reduction in fossil energy consumption, revised tribal energy plan, and provided recommendations for meeting new goals at least cost
- Created the reservation area’s first renewable energy generation potential suitability map using GIS mapping software
- Coordinated map creation and renewable energy project development sub-teams
- Assessed tribal policy tools to ensure long-term impacts of project recommendations; Tribal Council subsequently adopted solar PV development recommendations

**GRANGE EDUCATION LIMITED**

*Teaching and Laboratory Assistant*

Lagos, Nigeria  
September 2010 – August 2013

- Taught sixth and seventh grade Physics and conducted laboratory classes for tenth grade Physics in an inclusive classroom system (i.e., a standard school with Special Education Needs students). Helped 100% of tenth grade students achieve passing grades for the highly competitive Cambridge IGCSE exam.
- Youngest-ever Assistant Head of Year (administrative position) and Leadership Training Team Leader

Education

University of Michigan  
*M.S., Natural Resources and Environment  
Sustainable Systems*

Ann Arbor, MI  
2015

University of Lagos  
*B.S., Applied Physics (Geophysics)  
Academic Honors: 2<sup>nd</sup> Class Upper Division*

Lagos, Nigeria  
2008

Citizenship

Nigeria