

# Nathan Lee, Ph.D.

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

Remote

*Senior Managing Consultant*

Dr. Nathan Lee joined E3 in 2022 and will support E3's work in integrated system planning. He spent six years at the National Renewable Energy Laboratory (NREL) where he supported multiple power system planning and grid integration efforts around the globe. Additionally, he led NREL research on decision science for energy transitions. Nathan's doctoral research focused on decision support methodologies for national energy planning in emerging economies. He completed his Ph.D. and Masters in Sustainable Energy Systems with the MIT Portugal Program at the University of Porto. He also earned a B.S. in Engineering Physics from Miami University of Ohio.

## **NATIONAL RENEWABLE ENERGY LABORATORY**

Golden, CO

*Energy Program Manager, Consultant, & Researcher*

June 2016 – October 2022

- Managed portfolio of international projects providing expert consulting and client-facing project management on decarbonization, renewables, energy sustainability, energy transitions, policies, and green fuels. Responsibilities included: client relations, project management, analysis, research, strategy, business development, planning, budgets, and mentoring.
- Provided expert energy consulting to governments, energy ministries, and utilities in Asia, Africa, South America, Central America, and United States. Conducted extensive research and analysis to provide clients with strategy, roadmaps, and energy solutions to complex problems involving the production, delivery, conversion, and use of energy.
- Led research and application of decision science initiatives within energy system deployment group. Developed laboratory capabilities to support decision making under deep uncertainty within energy system planning and operations.
- Designed a first-of-its-kind power transmission development plan and roadmap for the Philippines Department of Energy. Led complex energy project with cross functional stakeholders that identified transmission options throughout the country and connected 25 geographical areas with high-quality renewables including wind, solar, hydro, and geothermal.
- Led a technical team of experts that developed comprehensive data and created a publicly available database platform on solar resources to enhance an organization's decision making for scaling renewable energy deployment across Southeast Asia.
- Managed a project and built an energy model for Southeast Asia government to supply power in a new capital covering energy transition, decarbonization, renewables, and decarbonization policy to achieve clean energy goals.
- Managed clean energy transition programs providing global experts to assist 60 developing countries with achieving their climate change goals and objectives.
- Built capabilities and best practices for clients in energy efficiency and renewable energy including creation of knowledge centers, websites, workshops, fact sheets, and journal articles—translating cutting-edge, technical topics to broad audiences.

**INST. OF SCIENCE & INNOVATION IN MECHANICAL & INDUSTRIAL ENGINEERING** Porto, PT  
*Consulting Energy Systems Engineer* December 2015 – May 2016

**FUNDAÇÃO GOMES TEIXEIRA** Porto, PT  
*Consulting Energy Systems Engineer* January 2011 – July 2011

- Conducted the analysis, built the system model, and generated key recommendations on the integration of heat pump-based solutions that could increase plant capacity of a Combined Cooling Heat and Power System operating in Portugal.

**PEACE CORPS** Republic of Cape Verde  
*Volunteer* July 2007 – September 2010

**NEXANT, INC.** Boulder, CO  
*Energy Engineer* May 2005 – June 2006

## Education

University of Porto, MIT Portugal Program Porto, Portugal  
*Ph.D., Sustainable Energy Systems* 2016

University of Porto, MIT Portugal Program Porto, Portugal  
*Advanced Studies Diploma (Master's Equivalent), Sustainable Energy Systems* 2011

Miami University Oxford, OH  
*B.S., Engineering Physics* 2005