

Nathan Grady

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.

Boston, MA

Associate Director

Mr. Grady is a senior consultant in E3's transmission practice, a multidisciplinary group that spans E3's resource planning and asset valuation practice areas. Mr. Grady supports clients through both long-term transmission planning analyses and immediate due diligence investigations, with an overarching focus on the intersection between electric-sector policy drivers and energy market trends. His recent work includes a transmission opportunity screening analysis through the WECC, detailed transmission congestion analyses in CAISO, NYISO, ISO-NE, and the Atlantic Canadian provinces on behalf of utilities, investors, and infrastructure developers; and electric sector transition modeling for New York State to inform resource and transmission portfolios compliant with the Climate Leadership and Community Protection Act targets.

Mr. Grady joined E3 after earning his Master of Environmental Management (M.E.M.) degree at Yale University, where he focused on clean energy economics, policy, and financial analysis. Prior to graduate school, Mr. Grady worked for Meister Consultants Group, a Boston-based clean energy and sustainability consulting firm, where he worked on strategic electrification initiatives for city and state clients. In addition to his M.E.M., Mr. Grady holds a B.A. in Environmental Policy and Economics from Lawrence University.

Select recent projects at E3 include:

- **Transmission Development Opportunity Screening Analysis in WECC, Confidential Transmission Developer (2023).** Mr. Grady led a screening analysis to identify potential transmission development opportunities throughout the Western Electricity Coordinating Council (WECC). He and his team assessed both current conditions and projected nodal grid conditions for 2032 and created a novel methodology for screening for transmission needs. These transmission opportunities were then ranked and prioritized based on a wide range of development criteria determined in collaboration with the client, an independent developer in the region.
- **California Offshore HVDC Transmission Economic Assessment, Confidential Transmission Developer (2022-2023).** Mr. Grady led the economic analysis for a proposed offshore HVDC transmission line, looking both at production cost savings potential and local capacity contribution benefits of the line addition. He and his team conducted an extensive scenario analysis to examine the impact this line might have on the central and southern portions of the CAISO grid, and supported the client and presenting findings and developing filings to the CAISO TPP process.
- **Detailed Transmission Congestion Assessment and Mitigation Analysis, Confidential Generation Asset Owner in CAISO, 2021-2022.** Mr. Grady led a multi-firm analysis examining current and future congestion patterns in CAISO that were affecting the economic operations of a generator. He and his team ran a wide range of scenarios in GridView to identify the scale of localized transmission congestion and determine cost-effective solutions, which the client leveraged in seeking economic assessment in the CAISO TPP process.

- **Analysis of Deeply Decarbonized Electricity Systems, New York State Energy Research and Development Authority (NYSERDA), Ongoing.** Mr. Grady serves as the lead RESOLVE modeler for E3’s analysis of the electric sector impacts of New York’s Climate Act. RESOLVE is E3’s in-house capacity expansion model, used to model the State’s electric sector as it moves towards a 70% renewable energy target by 2030 and a zero emissions target by 2040.
- **Transmission Opportunity Assessment for California, Confidential Transmission Developer, Fall 2021.** Mr. Grady led an assessment of the scale of transmission additions needed in California through 2050, as driven by state clean energy and carbon reduction goals. This included a projection of the investment potential to help inform client strategic growth interests.
- **Transmission Strategy Development in New York State, Confidential Transmission Developer, 2019-2020.** Mr. Grady supported a transmission developer in identifying new opportunities to enhance the deliverability of clean energy in New York State. As part of this work, Mr. Grady developed inputs including load and resource projections to 2030, as well as detailed mapping to match capacity additions with specific substations throughout the state. These inputs were fed into GridView for production cost and transmission modeling, conducted by the client. Mr. Grady then supported identification and mapping of potential line additions.

YALE CENTER FOR BUSINESS AND THE ENVIRONMENT

Community Microgrid Research Analyst
Renewable Thermal Research Analyst

New Haven, CT
 August 2018 – May 2019
 September 2017 – May 2018

- Assessed soft-cost reduction potential for community microgrid development, and authored explainer series on community microgrid development efforts in NY
- Conducted geostatistical analysis of renewable thermal technology (RTT) adoption in CT

YALE SCHOOL OF MANAGEMENT

Teaching Fellow

New Haven, CT
 Spring 2019

- Teaching fellow for graduate-level course “Financing Green Technologies”

EDF CLIMATE CORPS/CENTERBRIDGE PARTNERS LP

EDF Climate Corps Fellow

New York, NY
 Summer 2018

- Analyzed energy saving opportunities for portfolio companies and built financial models for retrofit and new construction cases; Reviewed ESG policy and developed ESG training deck for Centerbridge new hire onboarding

MEISTER CONSULTANTS GROUP

Research Associate

Boston, MA
 February 2016 – June 2017

- Specialized in renewable energy and energy efficiency program design, market analysis, and technology scaling strategy as part of national and international consulting projects

BOSTON NATURAL AREAS NETWORK

Urban Ecologist

Boston, MA
 August 2014 – July 2015

MASSLIFT AMERICORPS/EAST QUABBIN LAND TRUST

Hardwick, MA

MassLIFT AmeriCorps Member

September 2013 – August 2014

GLEN BROOK

Outdoor Educator, Land Steward, CIT Director

Marlborough, NH

June 2011 – December 2012

Education

Yale University

M.E.M., Clean Energy Economics, Policy, and Markets

New Haven, CT

2019

Lawrence University

B.A., Environmental Policy and Economics (with Honors)

Appleton, WI

2011