

Zachary (Zak) Suttle

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.

New York, NY

Director

Zak has more than 15 years of research, analysis, consulting, and implementation experience at the intersection of climate policy, environmental risk, and the built environment. He joined E3 in 2021 as a Director in our Climate Pathways and Electrification practice, applying his experience designing electrification and efficiency initiatives with state and local governments, electric and gas utilities, and large energy users. He focuses on practical solutions that reduce greenhouse gas emissions, deliver bankable energy and demand savings, increase resiliency, and capture the full benefit of new energy resources, management tools and emerging markets.

Zak came to E3 from Willdan, E3's parent company, where he was a Vice President in Willdan's Lower Manhattan office. Prior to Willdan, Zak was Risk Manager for a boutique environmental consultancy in New Jersey.

Relevant Project Experience:

- **New Jersey Board of Public Utilities (BPU), 2024 Energy Master Plan, 2024-present.** Project Lead for the development of the State's new Energy Master Plan, which sets forth a strategic vision for the production, distribution, consumption, and conservation of energy in New Jersey.
- **New York Mayor's Office of Climate and Environmental Justice (MOCEJ), Long-Term Energy Plan/PowerUp NYC, 2021-2023.** Project Lead for the development of New York City's first Long Term Energy Plan. One of several workstreams includes grid readiness research required by Local Law 154 to evaluate the reliability and resiliency of the city's grid under high electrification scenarios. E3 evaluated the combined electric loads of building and transportation scenarios and their impact on the distribution system. This included evaluating the impact of building and transportation electrification on peak demand at the Con Edison network level and identified the extent to which electrification will exceed available capacity at the network level.
- **Confidential Company, Residential Demand Side Management, Distributed Energy Resource, and Energy Efficiency Program Market Assessment, 2023.** Project Lead for a comprehensive analysis of DSM/DER/EE programs in the U.S. that evaluated key program attributes including design, enrollment, participants, vendors, impact, cost recovery, barriers, and regulatory history. The assessment also summarized, compared, and contrasted how various utilities are compensated and/or incentivized for the programs, how program benefits are defined and valued, how the programs align or conflict with overarching utility priorities, what impact verification methods are used, and where opportunities may exist for new programs or policies to overcome lack of program fit and barriers.
- **Support for NYSERDA's 2030 Building Electrification Roadmap, 2022-2023.** Technical Advisory Support for the development of the 2030 Building Electrification Roadmap. The New York State

Energy Research and Development Authority (NYSERDA), with support from E3 and other consultants, has developed the Building Efficiency and Electrification Model (BEEM) toolset to inform development of the Roadmap. This work takes advantage of New York-specific avoided costs for electricity and gas developed by E3 through previous workstreams. A key feature of the model is the adoption module, which combines calculations of customer bills, upfront measure costs, lifetime measure O&M savings, historical adoption, and assignment of adoption uptake "s-curves" to forecast adoption in each year.

- **New York City Department of Citywide Administrative Services (DCAS), Local Law 97 Implementation Action Plan, 2020-2021.** Project Lead for the development of NYC's action plan to achieve its mandated emissions reductions, meet other near-term policy mandates and commitments (e.g., 100% renewable electricity, 20% energy reduction), and establish a trajectory beyond 2030 that is necessary to meet the longer-term mandates and commitments (e.g., 80x50 and carbon neutrality).
- **Southern California Edison, Building Electrification Regulatory Support, 2021.** Technical Advisory Support for filing of a \$670M building electrification program proposal to the CPUC to dramatically increase the number of all-electric residential and small commercial buildings in SCE service territory in order to reduce their associated emissions.
- **New York State Energy Research and Development Authority (NYSERDA), Clean Energy Fund (CEF) Commercial Programs, 2016-2019.** Launched and led the early development of two CEF Commercial programs: Real Time Energy Management (RTEM) Program and Commercial Tenant Program (CTP). Both programs exceeded the State's goals for energy savings, carbon reductions, and leveraged funding.
- **Con Edison and NYSEERDA, Indian Point Energy Center / Demand Management Program, 2015-2017.** Marshalled team of building efficiency professionals to identify over 28MW of summer peak demand reduction projects in New York City, which represented 140% of contract target in 50% of the contract term.
- **NYSERDA, Buildings and Industrial and Process Efficiency Outreach, 2010-2016.** Led strategic initiative that expanded statewide outreach, market engagement, marketing, and education support services for NYSEERDA commercial energy efficiency programs. Managed \$15M+ budget and 30-person team of energy engineers and technical outreach professionals who identified and delivered building efficiency projects representing more than 240 gigawatt-hours of annual electric savings and 155,000 dekatherms of annual natural gas savings.

WILLDAN GROUP, INC.

Vice President

New York, NY

2017 - 2021

- Leads growth and development strategy on East Coast to achieve targeted 25% CAGR
- Capture and Proposal Manager for key, strategic pursuits:
 - NYC Local Law 97 Implementation Action Plan (2020; first of its kind, landmark project)
 - NYCHA Design-Build for Electrification of Building Heating Systems (2020; company's largest D/B pursuit to-date)
 - DC DGS Energy and Utility Management (2019)
 - Con Edison EE, Non-Wires, and Non-Pipes Implementation (2016-2021)

- NY Prize Community Microgrid Competition (2015; company's first microgrid analysis projects)

WILLDAN ENERGY SOLUTIONS, INC.

New York, NY

Director

2015 - 2017

- o Launched and led the early development of two NYSERDA Clean Energy Fund programs - Real Time Energy Management Program and Commercial Tenant Program – which exceeded all energy savings, carbon reductions, and leveraged funding goals
- o Marshalled team of building efficiency professionals to deliver over 28MW of summer peak demand reduction projects for Con Edison and NYSERDA Indian Point Energy Center / Demand Management Program, which represented 140% of contract target in half of the contract term

Operations Manager

2013 - 2015

- o Led strategic initiative that expanded statewide outreach, market engagement, marketing, and education support services for NYSERDA commercial EE programs
- o Managed \$15M+ budget and 30-person team of energy engineers and technical outreach professionals
- o Delivered building efficiency projects representing 240 gigawatt-hours of annual electric savings and 155,000 dekatherms of annual natural gas savings

Program Director

2012 - 2013

- o Hired local engineering and support staff to open company's first Midwest office
- o Launched and oversaw the high performance of ComEd's new data center energy efficiency program
- o Exceeded pilot and full program's energy savings goals and all related key performance indicators on-time and under-budget

Project Manager

2010 - 2012

- o Worked with enterprise-level energy managers, sustainability officers, architects and engineers, contractors, and property managers to assess energy conservation opportunities, recommend capital measures, identify, and secure funding resources, and execute projects

Education

Columbia University
M.P.A., Environmental Science and Policy

New York, NY
2010

University of Pennsylvania
B.A. with Distinction, Environmental Studies

Philadelphia, PA
2004

Certifications and Affiliations

Association of Energy Engineers, Certified Energy Manager	2014-Present
Building Owners and Managers Association (NY), Energy & Sustainability Committee	2015-2020
Building Energy Exchange, Industry Leadership Council	2018-2020