



44 Montgomery Street, Suite 1500, San Francisco, CA 94104
ritvik.jain@ethree.com

ENERGY AND ENVIRONMENTAL ECONOMICS, INC.
Consultant

San Francisco, CA

Mr. Jain supports E3's Integrated System Planning group. Prior to joining E3, Mr. Jain served as a fellow for Bright Power where he completed performance analysis for heat pump water heaters. A native of India, he holds a Bachelor of Science in Mechanical Engineering from the University of Mumbai, D.J. Sanghvi College of Engineering. He received his Master of Science in Environment & Sustainability from the University of Michigan.

BRIGHT POWER
Environmental Defense Fund (EDF) Climate Corps Fellow

Oakland, CA
May 2022 – August 2022

- Determined operational cost savings of \$63,700 and emissions reductions of 222 metric tons of CO₂ for California's largest multifamily residential electrification and energy efficiency project at Sacramento Manor
- Executed performance analysis for heat pump water heaters (HPWHs) and set up a framework to track performance for future upgrades
- Created data visualization and processing modules on Python to aid building owners, engineers, consultants, and policy designers make informed data-driven decisions for various energy efficiency measures

ASSET LAB
Graduate Student Research Assistant

Ann Arbor, MI
January 2022 – April 2023

- Estimated energy consumption for single-family homes in the contiguous United States by implementing a custom framework consisting of cloud computing on AWS, energy modeling on EnergyPlus, and statistical modeling using NREL's ResStock analysis tool
- Simulated energy consumption under future climate conditions using forecasted weather data to determine the type and characteristics of households that would be most susceptible to increasing energy burdens
- Constructed a pipeline in Python to process future climate and weather data and to analyze extensive hourly timeseries data

Education

University of Michigan, School for Environmental and Sustainability,
M.S., Environment & Sustainability, Specialization: Sustainable Systems

Ann Arbor, MI
April 2023

Publications

1. Jain, R., & Dhadke, Y. (2020, July). A Multi-Faceted Assessment of the Impact of Preliminary Lockdown due to COVID-19 Pandemic on the Indian Energy Sector. *Parana Journal of Science and Education (PJSE)* – v. 6, n.5, (pp. 9-14).
2. Jain, R. (2022, December). “Will more energy be a strength or weakness? Global South perspectives from COP-27”, *Climate Blue*, University of Michigan.
3. Baxi, P., Jain, R., Dhadke, Y., Chhabra, Y., & Khatawate, V. H. (2021, January). Design and Analysis of Bell-Parabolic De Laval Rocket Exhaust Nozzle. 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE) (pp. 1-6). IEEE.