Sruthi Davuluri

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC. San Francisco, CA
Consultant I

Ms. Davuluri joined E3's Distributed Energy Resources (DERs) group in 2019, where she helps utilities, regulatory agencies, and technology companies design electricity portfolios that reach ambitious decarbonization goals. She joined E3 after graduating from the Massachusetts Institute of Technology (MIT), where she researched how distribution systems will adapt to increasing penetration of DERs. Ms. Davuluri brings significant international energy experience in Chile, Ghana, and India to her work helping utilities and other E3 clients evolve toward a clean energy future. In addition to her M.S. from MIT's Technology and Policy Program, Ms. Davuluri holds a B.S. in Mechanical Engineering from the University of California, Berkeley.

CENTER FOR ENERGY AND ENVIRONMENTAL POLICY RESEARCH Cambridge, MA
Research Assistant September 2017 – May 2019

- Developed an algorithm to perform decentralized economic dispatch in a bottom-up manner for local distribution systems with varying levels of distributed energy resources
- Analyzed detailed load data to predict which customers will have the greatest impact on reducing peak demand in New England
- Investigated the macroeconomic impact of peak demand reduction; showed that a 1% reduction in load could lead to a 1.5% - 3% reduction in electricity prices

ENEL X Santiago, Chile
Microgrid Analyst July 2018 – October 2018

- Evaluated and advised on Enel's approach for designing rural microgrids by assembling a best practices report covering technical, economic, and social recommendations
- Quantified the technical and economic benefits of urban microgrids in downtown Santiago by building a simulation using electricity consumption and generation data

SOLSTICE INC. Cambridge, MA
Consultant September 2017 – January 2018

- Implemented machine learning algorithms to predict the probability of delinquency of utility payments using customer data, which included previous payment history and other demographic variables and demonstrated a 99% accuracy rate
- Developed a model that increased the number of Lower-to-Middle Income (LMI) applicants approved when compared to the standard industry approach

CYPRESS CREEK RENEWABLES San Francisco, CA
Development Engineer February 2017 – May 2017

- Produced engineering designs and estimated net-energy output for 50 local solar farms by analyzing geographic and technical constraints, which screened the financial capability of the potential solar projects

PARTICULATE SOLID RESEARCH, INC. Chicago, IL
Research Engineer June 2016 – August 2016

- Provided implementation guidelines for using existing mixing technology on biomass reactors by studying the fluidization properties of five distinct binary solids; findings proved the use of traditional fluidization methods on clean-energy applications

Education

Massachusetts Institute of Technology Cambridge, MA
M.S., Technology and Policy June 2019

University of California, Berkeley Berkeley, CA
B.S., Mechanical Engineering May 2017
Minor in Environmental Economics & Policy

Authored Papers

1. "Recursive Algorithm for Resource Allocation in Radial Network Systems" IEEE. 2018. Available online: https://ieeexplore.ieee.org/document/8760141
2. "Enabling Customers through Distributed Economic Dispatch" IEEE North America Power Systems. 2019.

Citizenship

United States