

Alexandra Gonzalez

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.

New York, NY

Consultant

Ms. Gonzalez supports E3's Integrated System Planning group. Since joining E3 she has contributed to a statewide resource adequacy out to 2050 and 2100 and to an effective load carrying capability (ELCC) refresh for a confidential developer. Prior to joining E3, Ms. Gonzalez was a transmission planning engineer at Oncor Electric where she was responsible for transmission planning for a large area of North Texas's Metroplex. She completed her master's degree in Energy Systems Engineering in University College Dublin in Ireland. During graduate school, she undertook an eight-month internship for Ireland's Transmission System Operator, EirGrid, where she coordinated generation adequacy analysis and generator outage management for the Irish transmission system. In addition to her M.E., Ms. Gonzalez holds a B.Sc. in Mechanical Engineering from University College Dublin.

ONCOR ELECTRIC

Dallas, TX

Engineer

March 2022 – December 2022

Associate Engineer

March 2020 – April 2022

- Transmission Planner for large area of North Texas's Metroplex
- Responsible for a number of large scale, multi-year projects requiring in depth steady state analyses and compliance reports.
- Team Coordinator for Oncor's multi-year Line Clearance Standard Review
- Executed steady state analyses to ensure system reliability standards as per TPL-001-5 NERC Criteria using Python and PSSE
- Developed detailed corrective action plans and presented findings to internal stakeholders; supervised and managed associated projects up to the point of project completion
- Collaborated across multiple power utilities and departments within Oncor to build and run Texas-wide power flow model

EIRGRID

Dublin, IRELAND

Engineering Intern

January 2018 – April 2019

- Coordinated generation adequacy analysis and outage management through close engagement with both internal and external stakeholders
- Optimized various data management tools using MS Excel
- Developed and published the All Island Transmission System Performance Report 2017
- Collaborated with Innovation team to run analyses on solar flexibility using PLEXOS as part of Master's thesis

CEMEX ENERGIA

Monterrey, MEXICO

Engineering Intern

July 2017 – September 2017

- Worked with the Operations & Maintenance team of Ventika Wind Farms (252 MW)
- Collaborated in a failure assessment report regarding ongoing technical issues with the wind turbines.

Education

University College Dublin
M.E., Energy Systems Engineering

Dublin, IRELAND
2019

University College Dublin
B.Sc., Mechanical Engineering

Dublin, IRELAND
2017