Melina Bartels

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.   New York, NY
Senior Managing Consultant

Ms. Bartels works in the E3's Asset Valuation and Markets group, focusing transaction diligences for distributed and wholesale energy resources and companies. She has also supported DER and wholesale market forecasting as well as renewable and storage market entry and investment strategy more broadly. Melina is an experienced project manager and leader, working with developers and financial clients to find value across projects, portfolios and companies. Her E3 experience spans a broad range of projects including work on diligence, market forecasting, and strategy, with a high-level focus on distributed energy resources. Prior to joining E3, Ms. Bartels was on BloombergNEF's power team. There, she focused on North America mid- and long-term energy system forecasting, asset valuation, and environmental market efforts. She also conducted similar work at ICF in their advisory services division, largely in transaction support. Ms. Bartels graduated from Dartmouth College with a B.S. in Mechanical Engineering and B.A. in Earth Sciences.

Select E3 experience includes:

Distributed Energy Resource Transaction Diligence: Leads and manages transaction support for DER companies and financial institutions. Has supported diligences across entire DER spectrum including buyside and sellside support with particular focus on solar and storage.

Transaction Diligences for Utilities and Balancing Authorities: Leads and manages diligence support for portfolios of wholesale projects, including both gas assets and renewables, as well as companies managing these assets. Melina has assessed various types and sizes of load-serving entities across the United States, overseeing end-to-end analysis that considers the full view of opportunities and risks across all business lines.

Wholesale and DER market forecasting: Melina leads E3 DER forecasting, which includes every distributed energy resource, demand response, and retail program across the United States. Also contributes heavily to E3 wholesale forecasting for all of the non-CAISO, non-ERCOT markets, driving nodal and sensitivity forecasting for storage and renewable assets.

BLOOMBERG LP   New York, NY
Power Associate   June 2019 – June 2021

- o Fortified North America power market expertise by examining changes to pricing, supply, and demand fundamentals.
  - o Areas of focus: mid- and long-term market forecasting, asset valuation, and decarbonization (distressed fossil assets/environmental markets/emerging technology strategy: hydrogen, CCUS)

- o Represented BloombergNEF across the U.S. and internationally in direct client interactions, interviews with reporters, webinars, panels, and conference presentations
- o Major projects included:
  - o New Energy Outlook (NEO): Led the North America power component of BloombergNEF's highest-tracked, global project: NEO. Used a bottom-up, 8760 modeling approach to generate the long-term view of 10 U.S. and Canadian markets. Delegated across 20+ analysts in commodities (power/gas/oil), clean energy (solar/wind/storage/decentralized energy), and demand-side dynamics (transportation/buildings). Results used in 2-degree and policy scenario (Biden: zero emissions by 2035/California: SB100) modeling
  - o Asset valuation (IRRs/LCOEs): Managed the North America component of BloombergNEF's asset valuation. Modeled discounted cash flows, including tax equity structures, to evaluate individual assets and portfolios. Additionally, maintained client-facing benchmark cash flow inputs (cost-side: expenditures, financing/revenue-side: take, merchant values) for thermal and renewable technologies across different U.S. markets

ICF INTERNATIONAL   Fairfax, VA
Power Analyst   June 2017 – May 2019

- o Developed market forecasts and determined optimal contracting options to assist buy- and sell-side entities with energy asset and commodity transactions. Largest projected average annual revenue from a single asset acquisition was $110M

Education

Dartmouth College   Hanover, NH
B.E., Energy Systems Engineering   March 2016
B.A., Earth Sciences and Geology