

## **OVERVIEW**

Mr. Eckhart has 3 years of experience providing consulting services to electric utilities, primarily in the areas of energy resource planning, financial analysis, and load and distributed generation data analytics. He has contributed to model-building, data research and analysis, and report development across the following types of consulting projects.

- Integrated resource plans
- Supply and demand-side resource evaluations
- System load forecasts
- Distributed generation studies
- Consulting engineer's reports in support of the issuance of project revenue bonds
- Benchmarking analysis
- Transmission assessments

## **PROJECT EXPERIENCE**

### ***Integrated Resource Planning***

Mr. Eckhart has supported the development of IRPs for several utility clients, both on the mainland and in the Caribbean. His role has comprised of data collection, analysis support, and report development. He has provided comparative analysis of various generation options and IRP results across alternative scenarios, as well as the development and review of plant performance data, including estimates regarding utility-scale and distributed solar production.

### ***Demand-side Resource Evaluation***

Mr. Eckhart has supported the evaluation of demand-side resources for multiple utility clients. His work has included the development of assumptions regarding performance parameters, costs, and customer base characteristics. He has provided analysis and model building support around the estimation of technical potential and adoption of measures. Mr. Eckhart assisted in the development of a detailed resource screening model, taking into account avoided costs related to energy, capacity, transmission and distribution system upgrades, the availability of excess generation to serve the external market, losses, and environmental benefits, most notably avoided carbon emissions. The resulting model reflected the various industry-standard benefit-cost ratio perspectives (e.g., Total Resource Cost test, Utility Cost Test, Rate Impact Measure Test, and Societal Cost Test) and was successfully utilized in several demand-side management resource portfolio evaluations.

### ***Load Forecasting***

Mr. Eckhart has supported several load forecasting projects, which have involved the analysis and forecasting of customer counts and sales by retail class and system energy requirements and peak demand, typically utilizing an econometric approach. He has been responsible for the compilation of input assumptions regarding historical and projected economic data, weather data, and other industry or market data. He also has experience performing econometric analyses that form the basis of the

forecasting equations. Finally, Mr. Eckhart has assisted with the analysis of data regarding customer load and distributed solar generation profiles to provide input regarding the extent to which this generation is consumed on site versus back-fed over the system.

### ***Project Financings***

Mr. Eckhart has supported the preparation of numerous consulting engineer's and annual reports in support of bond financing for various types of supply-side resources. These engagements have typically involved (i) characterization of the key parties to the transaction, contractual obligations of the parties, (ii) technical discussion related to the operation and maintenance of the project, (iii) development of projected operating results for the project, and (iv) development of alternative scenarios and sensitivities that characterize project risks. Mr. Eckhart has provided research support and key financial and operational updates to these documents that are provided to the financial community.

### ***Benchmarking Analysis***

Mr. Eckhart has supported benchmarking analysis projects for utility clients, both on the mainland and in the Caribbean. His work has included data collection, development of key performance indicators (KPI's), and selection of comparable peers. Additionally, Mr. Eckhart has assisted with the evaluation of the KPIs to provide insight regarding current performance and possible areas for improvement.

### ***Transmission Assessments***

Mr. Eckhart has supported the preparation of several independent transmission assessment reports in support of the development and interconnection of wind projects for multiple mid-western clients. His role comprised of data gathering, site mapping and report development. He also provided comparative analysis of construction and operating costs for comparable wind projects.

## ***PROFESSIONAL HISTORY***

Mr. Eckhart began working as a professional consultant at Leidos, Inc., in early 2014. He joined nFront Consulting, LLC, in December 2016.

## ***EDUCATIONAL AND PERSONAL***

Mr. Eckhart earned a Bachelor of Science degree in Industrial Engineering and Management Science from the University of Central Florida in 2013. He resides in Orlando, Florida.