
Position: Energy Market Engineer/Analyst
Department: Market Analytics

JOB SUMMARY:

Provides assistance to the Vice President of Market Analytics (VPMA) for the procurement and dispatch of the required energy and capacity to reliably and economically serve the needs of the Agency. Aids the VPMA in optimizing the Agency's power portfolio within the guidelines of the Agency's risk management policy. Assists in all aspects of power marketing at the Agency. This includes planning, budgeting, development, negotiation and implementation of power supply resource matters, transmission access, scheduling, marketing of surplus energy and capacity, financial transmission rights, back-up power requirements, power supply negotiations and associated contract administration and billing.

Supports the VPMA in strategically aligning the Agency in a manner that enables the participation in current and future energy markets. Assists in conducting a broad range of power supply cost and cost recovery studies and evaluations, energy and capacity price forecasts, capacity and fuel planning, and production cost and optimization modeling in support of member requirements.

RESPONSIBILITIES:

A. Front Office Functions

1. Assist in the development and implementation the Agency's portfolio strategy.
2. Assist in performing load forecasting.
3. Assist in power origination and structuring.
4. Assist in power transmission procurement. scheduling and tagging.
5. Assist in the evaluation of financial transmission rights and hedge execution.
6. Assist in maintaining the portfolio optimization model database.
7. Assist in serving as a liaison between the Agency and its Energy Service Partner.

B. Back Office Functions

1. Responsible for energy imbalance validation.
2. Responsible for electric quarterly report (EQR) filing.
3. Assist in market settlements.

C. Meter Data Management Functions

1. Become proficient in supporting the Agency's Meter Data Management System.
2. Design dashboards and other tools for the Market Analytics Center.

D. Long-Term Resource Planning

1. Assist in the development and analysis of long-term resource plans.
2. Assist in the analysis of potential new resources.
3. Assist in the support for bond financings.
4. Assist in preparation of new member analyses.

E. Short-Term Planning

1. Assist in analyzing short-term power supply offers.
2. Assist VPMA in determining the economics of power supply arrangements.

F. Market, Portfolio, and Optimization Modeling

1. Maintain market model national database and become proficient in performing regional and national market model studies.
2. Collect and maintain historical market information for market model and stochastic analyses.
3. Assist in the preparation and calculation of stochastic market drivers of electricity energy and capacity prices.

G. Renewable Energy

1. Assist in the evaluation of potential renewable energy projects, including wind, solar and landfill gas projects.

H. Environmental

1. Assist in the analysis of the impact of new environmental and emissions rules.

I. Special Projects

1. Other activities as assigned

EDUCATION AND EXPERIENCE:

1. Bachelor's Degree in economics, engineering, or related field.
2. One to three years of experience in power supply planning, rates, and load forecasting.
3. Travel is periodically required.

REPORTS TO: Vice President, Market Analytics

SUPERVISES: None

This job description does not constitute an employment agreement between the employer and employee.