

Energy Analyst Job Description

Duties and Responsibilities:

- Coordinate with multiple stakeholders during all project stages to assist in the design and implementation of M&V plans for continuous monitoring of energy and water performance
- Responsible for the review of design documents, M&E specifications, and shop drawings of metering system to ensure all M&V requirements are met
- Responsible for validating the energy/water performance/water savings from energy conservation measures for new and existing facilities
- Utilize regression analysis and other appropriate methods to develop energy consumption baselines and adjustments
- Manage energy performance analysis, including data collection from various software tools; sub-metering data analysis for end-use accounting, energy, and water cost analysis, and utility bill accounting
- Perform energy benchmarking for a portfolio of buildings
- Support energy sales efforts with a focus on commercial and industrial energy consumers
- Generate insights on matters relating to energy markets
- Deliver broad and customer specific insights through written reports, presentations, and customer visits
- Carry out wholesale market analysis and reports concerning energy markets (basis, DA/RT, forwards, historic liquidations, futures, natural gas, and correlations)
- Translate wholesale market changes into strategic opportunities
- Generate reports and market insight for the organization or its clients
- Responsible for evaluating the value and impact of various on-site energy assets such as storage, distributed generation, and efficiency
- Collaborate with the sales unit to develop and maintain sales tools and aids to model customer costs

- Provide news and content on energy market developments, with technical analysis of market trends to assist the sales team and customers
- Develop prescriptive solutions for customers and customer prospects to support sales representatives.

Energy Analyst Requirements – Skills, Knowledge, and Abilities

- Education: To work as an energy analyst, applicants need at least a Bachelor's degree in Finance, Economics, Petroleum Engineering, Accounting, Mathematics, Statistics, or Business, or in a related field of study
- Knowledge: They must have an understanding of the mechanics of the energy market (wholesale energy markets), be able to quantify the trends impacting the industry, and provide information that can aid commercial decisions. It is also vital that they have financial or economic knowledge/experience
- If they are desirous of working in energy production, it is vital that applicants have a basic understanding of IPMVP framework and M&V Guidelines, and familiarity with building science concepts such as thermal enclosure and building envelope. Also, familiarity with various types of meters, metering system software, building management system software, or energy dashboards is also to the advantage of the applicant
- Computer skills: Applicants must possess advanced computer skills, including strong Excel and PowerPoint skills, SQL experience, Modeling and Coding experience. It is also vital that they have a working knowledge of energy modeling software such as Ekotrope, REMrate, and Google Sketchup
- Attention to detail: It is essential that they can work with large data and numbers and also review materials for accuracy
- Problem-solving: Employers look out for intellectually curious individuals with the ability to identify problems and coming up with various ways to solving them; and also the ability to apply logical/objective reasoning to analyze options and proffer solutions

- **Organizational skills:** The energy analyst handles multiple tasks and works with various stakeholders, including sales teams, engineers, contractors, etc. so it is important that applicants for the job have the ability to handle multiple and competing demands, plan ahead, and prioritize responsibilities
- **Research skills:** One of the major responsibilities of an energy analyst is to understand the dynamics of the energy market and provide market insights. Therefore, it is important that applicants have skills necessary to pull data from multiple sources, as well as perform analysis to reach useful conclusions and deliver insightful recommendations to sales executives and clients
- **Superior interpersonal skills:** The job of the energy analyst also requires that they interact frequently with clients, utility representatives, contractors, and others to perform their duties successfully. Hence, it is important that applicants have solid interpersonal skills with diplomacy, a win-win mindset, and the ability to build and sustain relationships
- **Communication:** Applicants must also have great oral and written communication skills to manage various stakeholders and generate reports on the energy market as needed.