



Energy Data Analyst

Job Scope

The Energy Data Analyst plays a crucial role in analyzing and interpreting energy-related data to support decision-making, optimize energy consumption, and identify opportunities for efficiency improvements. This position involves collecting, organizing, and analyzing energy data from various sources, conducting statistical analysis, generating reports, and providing stakeholder insights and recommendations. In addition, the Energy Data Analyst collaborates with cross-functional teams to drive energy conservation initiatives and monitor the performance of energy management programs.

Responsibilities

- Collect, compile, and organize energy-related data from internal and external sources, such as utility bills, smart meters, sensors, and energy management systems.
Ensure data accuracy, completeness, and integrity through data validation and cleansing processes.
Develop and maintain databases, spreadsheets, and other tools for efficient data storage and retrieval.
Stay updated on emerging energy data collection technologies and techniques.
Analyze energy data using statistical techniques, data mining, and visualization tools to identify patterns, trends, and anomalies.
Conduct energy consumption analysis, load profiling, and benchmarking to assess performance and identify opportunities for improvement.
Generate reports, dashboards, and visualizations to present findings and insights to stakeholders.
Provide regular and ad-hoc reports on energy usage, conservation measures, and energy-related metrics.
Collaborate with cross-functional teams, including energy engineers, facilities managers, and sustainability professionals, to identify and implement energy conservation measures.
Conduct energy audits and assessments to identify areas of energy waste and propose energy-saving strategies.
Analyze energy efficiency projects and calculate return on investment (ROI) and payback periods.
Provide recommendations for optimizing energy consumption and reducing energy costs.
Monitor and track the performance of energy management programs, initiatives, and projects.
Develop key performance indicators (KPIs) and metrics to evaluate energy efficiency and conservation efforts.
Conduct ongoing data analysis to assess the effectiveness of energy-saving measures and identify areas for further improvement.
Collaborate with stakeholders to develop and implement performance improvement plans.
Stay updated on energy-related regulations, policies, and reporting requirements.
Ensure compliance with energy reporting standards and regulations (e.g., ENERGY STAR, ISO

As an EEO/Affirmative Action Employer all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, veteran status.



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Prepare and submit regulatory reports and compliance documentation as required.

Collaborate with internal stakeholders, including executives, facility managers, and operations teams, to understand energy-related goals and priorities.

Communicate findings, insights, and recommendations to stakeholders clearly and concisely.

Provide training and guidance to stakeholders on energy data analysis tools and techniques.

Participate in cross-functional meetings and initiatives to promote energy efficiency and sustainability practices.

Requirements

- Bachelor's degree in Engineering, Data Science, Energy Management, or a related field is preferred.
Proven experience (typically 2-5 years) in data analysis, preferably in the energy or sustainability field.
Strong analytical and quantitative skills, with proficiency in statistical analysis and data visualization tools (e.g., Excel, Python, R, Tableau).
Knowledge of energy systems, energy efficiency concepts, and sustainability principles.
Familiarity with energy management systems (EMS) and building automation systems (BAS).
Understanding of energy-related regulations, standards, and reporting requirements.
Experience in energy auditing, load profiling, and benchmarking is desirable.
Excellent problem-solving skills and attention to detail.
Strong communication and presentation skills, with the ability to convey complex data insights to non-technical stakeholders.
Ability to work independently, manage multiple tasks, and meet deadlines.
Knowledge of sustainability frameworks (e.g., LEED, Green Building Standards) is a plus.
Certification in energy management or data analytics (e.g., Certified Energy Manager, Certified Data Analyst) is advantageous.