

Job Posting – Power Sector Modeling Analyst

NewGen Strategies and Solutions, LLC (NewGen) is a management and economic consulting firm specializing in serving public and private sector utilities. We provide financial, cost of service, rate design, valuation, strategy, expert witness, stakeholder, and sustainability consulting services to our clients. NewGen has 36 employees in 9 offices nationwide.

Job Purpose

NewGen is seeking an experienced power sector modeling analyst to join an interdisciplinary team of consultants that leverage capacity expansion and dispatch models to conduct various power supply and resource planning services to our electric utility client base. The successful candidate will have the opportunity to help shape a growing practice in strategic resource planning and will contribute to a team that is building advanced products and services to serve increasingly complex resource planning needs from our clients.

Duties and Responsibilities

The successful candidate would lead and execute production cost modeling and related economic analyses of utility operations within various power sector markets, incorporating a wide-range of scenarios reflecting technological change in both the wholesale and retail electricity markets. Responsibilities would include, but are not limited to, the following:

- Lead and/or contribute to production cost and capacity expansion modeling activities related to consulting projects for municipal utilities using advanced software platforms.
- Contribute to the development of scenario analyses evaluating the impacts of policies, technology changes, and market design on utility operations.
- Contribute to written reports and deliverables to clients that leverage modeling and other related analyses.
- Contribute to the development of new quantitative, Microsoft Excel-based tools for both clients and internal use.
- Research various trends in regulations, technology, and markets that impact power system planning and operation (e.g., renewable energy integration, demand side generation) – and develop methods to implement them into modeling platforms and analyses.
- Acquire relevant data, evaluate for quality, and process into a structure that is appropriate for dispatch modeling.
- Collaborate with consultants working on other models to relate inputs and outputs across models.
- Assist in business development including the development of proposals for new work.

Additional Required Knowledge and Skills

- Thorough understanding of and experience with generation economic dispatch models, including cost inputs, plant operating constraints, and transmission and fueling parameters.
- Experience in power system and related federal and state policy and regulatory issues.

- Strong computer programming skills including languages relevant to model development, optimization, and database analysis.
- Demonstrated experience structuring the presentation of complex data to facilitate managerial decision making.
- Experience with innovative data visualization techniques and software to clearly communicate salient conclusions from robust quantitative analysis.
- Excellent written and oral communication skills.
- Problem solving and data analytical capabilities.
- Ability to work, team, and communicate effectively with colleagues and clients.
- Must be proficient in the English language.

Qualifications

The successful candidate will have the following qualifications:

- A Bachelor's or Master's degree, preferably in a quantitative field (engineering, mathematics, finance, etc.) or equivalent relevant experience of at least three (3) years.
- Demonstrated experience in developing and applying models of the electricity system and/or related markets to policy, market, or technology analyses.
- Preference will be given to candidates that possess the following:
 - Prior experience using industry-standard production cost and/or capacity expansion models (e.g., PLEXOS).
 - Prior experience forecasting customer electric load inclusive of demand-side technologies and distributed resources (e.g., solar, storage, electric vehicles).
 - Prior experience working in the electric utility industry.
 - Advanced modeling skills in Microsoft Excel

Additional Information

Preferred Location: Denver, CO

Optional Locations: Dallas, TX; Austin, TX; Nashville, TN

Employee Type: Full-time

Salary: Commensurate with experience

Benefits: Eligible for participation in Employee Benefit Program

If you are interested in joining our firm, please submit a letter of interest along with a professional resume to us via e-mail to info@newgenstrategies.net. If you would like further information on careers with NewGen Strategies and Solutions, LLC please call (972) 680-2000.