



OPEN POSITION ANNOUNCEMENT!

Senior Quantitative Energy Analyst

Open until filled. Posted 07/08/2024

San Diego County – hybrid work schedule set by SDCP

About the role: SDCP is a growing organization seeking highly talented and motivated people to join our team. Roles and responsibilities of employees may evolve over time as the organization grows and matures. A start-up mentality, and commitment to community and public service is a must. In the role of Senior Quantitative Energy Analyst, Power Services, we are seeking a strategic thinker and data expert with experience in California regulated energy markets. Under supervision of SDCP's Director of Power Contracts, the Senior Quantitative Energy Analyst, Power Contracts will primarily support SDCP's power services team in quantitative data analysis, reporting, and visualization of its full scope of power contracts.

WHO IS SAN DIEGO COMMUNITY POWER?

San Diego Community Power is a community-driven, not-for-profit public agency providing cleaner energy to the San Diego region. Formed in 2019, Community Power is the second largest Community Choice Aggregator (CCA) in California, serving nearly 1 million customer accounts across its member agencies: the Cities of San Diego, Chula Vista, Encinitas, Imperial Beach, La Mesa and National City, as well as the unincorporated areas of San Diego County.

OUR HISTORY

San Diego Community Power was formed in 2019 as a public, not-for-profit community choice aggregator (CCA) in the San Diego region. We began electric service in 2021 and serve five member agencies: San Diego, Chula Vista, Encinitas, La Mesa and Imperial Beach, County of San Diego, and National City. SDCP was formed to bring local control and customer choice to San Diego while also providing clean and renewable energy at competitive rates. By the end of 2023, SDCP will provide electricity for nearly half the electric load in San Diego Gas and Electric's service territory and will be the second largest CCA in California. For more information, please visit SDCommunityPower.org.

COMMITMENT TO DIVERSITY

At SDCP, we value diversity and are committed to creating an inclusive environment for all employees. We represent a diverse customer base and hope to hire employees that reflect our communities. We provide equal employment opportunities to all applicants for employment and prohibit discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state, or local laws.

ESSENTIAL DUTIES AND PRIMARY RESPONSIBILITIES

PRIMARY RESPONSIBILITIES

- Work with Energy Trading and Risk Management ("ETRM") systems and quantitative analytics systems to monitor, evaluate, and report on SDCP's power portfolio
- Power contract (PPA, ESSA, short term confirmations for Resource Adequacy (RA), Renewable Portfolio Standard (RPS), Carbon-free, and Inter-SC Trades) review and deal entry into ETRM

- Help design and maintain systems for measuring, monitoring, forecasting, and reporting power supply costs and financial risk from power supply positions, consistent with SDCP Energy Risk Management Policy and other policies adopted by the Board
- Provide lead analytical support to the front office in managing SDCP's electric supply portfolio which includes reporting net open position, supply costs, and risks.
 - Lead power contract report generation for internal and external stakeholders
 - Power contract open position reporting across the portfolios managed by SDCP's portfolio managers
 - Power contract compliance data collection and reporting
- Create and maintain reporting dashboards and visualizations for Power Service
- Communicate modeling methodology and explaining results with a focus on the "why", both verbally and in writing.
- Develop and manage models & tools to provide managerial reports of SDCP's portfolio cost, revenues and risks.
- Evaluate, develop, implement, and manage SDCP's cost of energy forecasting
- Formulates, recommends and/or implements actions or improvement of risk management and cost of energy models.
- Interface with SDCP's risk, finance, data teams, and accounting consultants as needed

OTHER POTENTIAL RESPONSIBILITIES

- Conduct quantitative analysis of potential renewable, energy storage, and hedging transactions, including environmental attributes, CAISO revenues, ancillary services, and resource adequacy value
- Utilize quantitative analytical tools, assist in the evaluation of potential power projects and transactions that SDCP receives through formal solicitation processes, ad hoc offers, and bilateral negotiations
- Work with vendors to create, configure, calibrate, and validate SDCP's analytical models
- Implement automated error checks for existing models and troubleshooting model failures
- Work with SDCP staff, consultants, and scheduling coordinator to analyze risk and value around complex transactions and portfolio positions, including power generation and storage, load forecasts and scheduling, and hedging strategies
- Develop and maintain excellent working relationships with market participants, interested parties and associations, regulatory agency staff, SDCP staff, consultants, and stakeholders
- Assist in the development of clean and renewable energy and/or energy storage procurement strategies.
- Support integrated resource planning, modeling and implementation efforts.
- Support data request and reporting for SDCP's compliance requirements
- Participate in SDCP's financial analysis, modeling, budgeting, and rate-setting activities, especially with respect to power supply costs
- Present in a professional manner to internal and external stakeholders, partners, agencies, and the Board

KNOWLEDGE, SKILLS AND ABILITIES

Required:

- Experience with, interest in, or knowledge of:
 - Energy Trading Risk Management (ETRM) or Commodity Trading Risk Management (CTRM) systems
 - Allegro, Hitachi, Ion PCI, PowerSettlements, etc.
 - Experience with some, or all, of the following:
 - PPA, ESSA, EEI, and WSPP power contracts

- Renewable, low carbon, carbon-free, inter-SC trades, resource adequacy, and financial hedging products
- Energy and related product procurement processes, wholesale energy products and use of renewable energy certificates to support mandatory and voluntary compliance programs
- Have a passion for analytics, data, software engineering, and their applications to the energy industry
- Strong analytical skills and meticulous attention to detail
- Ability to balance multiple priorities to meet deadlines and escalate key issues
- Excellent verbal and written communication skills
- Excellent organizational, financial, and management skills
- Experience building strong relationships and working across teams and departments
- Strong interpersonal skills
- Ability to act with integrity, professionalism, and confidentiality
- Proficient with Microsoft Office Suite, including extensive use of Word, Adobe Pro software, Teams, and SharePoint
- Knowledge of modern office procedures and practices including correspondence etiquette, and operating modern office equipment, technology, and programs
- Strong work ethic and comfort taking initiative
- Flexibility and eagerness to collaborate in fast-paced, start-up environment
- Embrace diverse teams and be highly collaborative

Desired:

- Experience with, interest in, or knowledge of:
- Quantitative analytic tools to portfolio and risk management:
- Ascend Analytics, cQuant, Enverus, Hitachi, Ion, etc.
- Designing and maintaining systems for measuring, monitoring, forecasting, and reporting power supply costs and financial risk from power supply positions
- Demonstrate proficiency in R, Python, C++, or some other modern analytical or statistical programming language
- Expertise in at least one of the following: time series analysis and Monte Carlo simulation, advanced regression and econometric techniques, advanced optimization techniques leveraging commercial solvers
- A solid grasp of statistics and time series analysis concepts including probability distributions, regression models, and autoregressive stochastic processes
- Machine learning and predictive analytics experience

QUALIFICATIONS, EDUCATION AND EXPERIENCE

Any combination of education and experience that would provide the knowledge, skills, and abilities listed. A typical way to obtain the required qualifications would be: an associate or bachelor's degree and at least three years (five or more preferred) of progressive experience with an energy consultant, corporate energy team, electric utility, municipal utility, Community Choice Aggregation program, or in a closely related field with demonstrated interest to transition to an energy career.

WORK ENVIROMENT & CONDITIONS

Prolonged periods sitting at a desk and working on a computer. The position requires occasional carrying, lifting and/or moving objects up to 25 pounds. Occasional local travel required and reliable transportation to be able to attend SDCP events, meetings, and workshops as needed is expected.

At SDCP we work in the communities we serve and in the office. SDCP works to ensure a safe and healthy workplace for employees and in our communities. SDCP requires employees to be fully vaccinated for COVID-19.

SDCP is an agency required to adopt and promulgate a Conflict-of-Interest Code ("COI"). The COI code requires employees in designated positions, including those identified under the interim disclosure process to file a Statement of Economic Interests (Form 700) on an annual basis. A Successful candidate accepting this position may be required to file Conflict of Interest forms subject to the regulations of the Fair Political Practices Commission.

This job description may not be inclusive of all assigned duties, responsibilities, or aspects of the job described, and may be amended at the discretion of SDCP as needed

Compensation:

Salary Range: The position salary range is: **\$98,100 - \$166,800**; with exact compensation to be determined by SDCP, depending upon experience.

Benefits: Standard benefits package including but not limited to:

Insurance: SDCP offers group health benefits, including medical, vision, and dental insurance, for eligible FT employees. SDCP pays 100% of health group benefits, including medical, vision, and dental insurance premiums for employees and dependents. Also provided is a \$100,000 Life & AD&D policy, STD and LTD coverage that is 100% paid by SDCP.

Retirement: SDCP offers a 457(b) plan for employee contributions and contributes 10% of eligible compensation to the employee's Money Purchase Plan.

Paid Time Off: 11 holidays per year + paid winter holiday (*between 12/24-12/31*), 160 hours of accrued paid time off per year (*increases with time in service*), and 96 hours per year of accrued paid sick leave.

SAN DIEGO COMMUNITY POWER IS AN EQUAL EMPLOYMENT OPPORTUNITY (EEO) AND AMERICAN DISABILITES ACT (ADA) EMPLOYER

How To Apply

Applicants must submit their resume, cover letter, and references using the "Apply today" functionality on our Career Opportunities webpage at:

[SDCommunityPower.org/about/career-opportunities](https://sdcommunitypower.org/about/career-opportunities)

sdcommunitypower.org