

## **POWER SCHEDULING MANAGER**

### Definition:

Under general direction, monitors Agency hydroelectric power generation and plans and schedules the sale of electric energy within physical and financial contractual obligations in the wholesale power market.

### Distinguishing Characteristics:

This is a mid-management, FLSA exempt position requiring independent work with only general direction. The incumbent is responsible for analyzing short- and long-term energy market trends; participating in both advance and real-time dispatch decisions for Agency owned electrical generation assets; assessing and recommending various scheduling and forward sale strategies; and interfacing with power system operations staff, PCWA's Scheduling Coordinator, and the California Independent System Operator (CAISO) on regulatory and generation decisions. The position requires prolonged sitting, computer work, frequent contact with outside agencies via the telephone, and the ability to concentrate for extended periods.

### Examples of Duties:

- Participate on an energy planning and management team to develop and update recommended seasonal and monthly water/energy dispatch plans to maximize revenue from the sale of energy, meet licensing requirements, and meet consumptive water supply delivery obligations;
- develop and update daily and hourly dispatch plans for each generator consistent with the monthly water/energy plan;
- perform economic analysis and energy price forecasting in collaboration with PCWA's energy partners;
- prepare and/or modify day-ahead and hour-ahead bids to the CAISO for energy, capacity, and ancillary services;
- recommend operational changes to PCWA power system operations that may affect hydroelectric power generation in order to maximize power sales;
- establish and maintain relationships with counter parties in the power market including CAISO, utilities, and power marketing companies;
- perform price discovery, follow trends of energy price movement, and actively respond to changes in forward market pricing as part of on-going planning;

## **POWER SCHEDULING MANAGER**

- analyze and communicate bulk power and related market intelligence including variables that influence pricing;
- respond to data requests from regulatory agencies pertaining to power sales;
- record relevant information for completed energy, capacity, and ancillary services transactions in established recordkeeping systems;
- recommend forward positions for the sale of bulk power, negotiate and transact final agreements for authorized positions;
- make presentations as appropriate to upper management and the PCWA Board of Directors;
- develop and administer power supply related contracts as required;
- assist in the implementation of power sales related goals and objectives;
- prepare various reports on power sales operations and activities;
- participate in budget preparation and administration;
- perform related duties as required.

### Qualifications:

### Knowledge of:

- Principles of power generation, particularly hydroelectric operations;
- CAISO markets and procedures, particularly scheduling, charges and settlements;
- practices and procedures related to energy sales and trading;
- energy price discovery and related tools and systems;
- wholesale energy pricing techniques and principles;
- regulatory requirements pertaining to the sale of bulk power;
- principles and practices of research and data analysis;
- budget preparation and analysis procedures;
- contract preparation and analysis;
- report preparation;
- English usage in business and government.

### Ability to:

- Perform economic and financial analysis;

## **POWER SCHEDULING MANAGER**

- research and analyze a variety of statistical, financial, economic, and market data;
- analyze CAISO data and market trends;
- analyze energy markets;
- interpret and conform to regulatory requirements pertaining to the sale of energy;
- prepare and administer a budget;
- communicate clearly and concisely, both orally and in written form;
- establish and maintain cooperative working relationships with those contacted in the course of work.

### Education/Experience:

Sufficient education, training, and experience to demonstrate the knowledge and abilities listed above. This would normally be acquired by the equivalent of a Bachelor's degree from an accredited college or university with major course work in engineering, mathematics, economics, or a related field and three years of increasingly responsible experience scheduling generation assets, preferably hydroelectric generation, as well as experience working with the CAISO, preferably under MRTU rules and structures.

### License/Certificates:

Must possess and maintain a valid California driver's license with an acceptable driving record.