

Title: Energy Resource Specialist
PG: 63
Status: Civil Service
Position Reports to: Designated Supervisor
Department: Lakeland Electric

Class Code: 2147
Date: 03/09

GENERAL DESCRIPTION OF CLASS:

This is a responsible professional position in the operating, planning, wholesale supply, and business analysis area of Lakeland Electric's participation in power pools or other energy related ventures. Responsible for monitoring wholesale energy costs, planning, purchasing, and selling wholesale energy, and providing recommendations for improvement. Assignments usually define the scope of the work to be performed and afford opportunity for independent judgment in planning details of the work and in making technical decisions. Technical assistance is provided during the course of assignment and work is checked during progress and evaluated upon completion by supervisor.

ESSENTIAL FUNCTIONS:

1. Facilitates and maintains good working relationships and interfaces between ES Production Division, ES Wholesale Energy and Fuels, power pools, consultants, vendors, government agencies, electric utility industry organizations, as well as all other Lakeland Electric Departments.
2. Assists in representing Lakeland Electric at state and regional operating organizations concerned with wholesale energy supply and/or power production operations.
3. Analyzes Lakeland and pool operations to discover opportunities for improved economic operation resources.
4. Use production modeling program to model Lakeland Electric and Florida Municipal Power Pool operations and run program to allocate cost and benefits of pool operation.
5. Assist in performing studies and short and long-range forecasts directly and indirectly related to the use of fuel and energy contacts.
6. Performs data preparation and input, computer terminal operation, and related activities.
7. Actively participates in the development of operating procedures and policies as well as subcommittees and task forces related to the FMPP.
8. May function in a lead role, assigning, instructing and checking the work of others employees.

Energy Supply – Business Operations

1. Makes recommendations to ES management on how to optimize LE assets.
2. Plans and administers Lakeland Electric's energy production, taking into consideration cost, availability and reliability of the department's electric load and generation working with ES managers.
3. Monitors and maintains all generating resource parameters used for economic dispatch.
4. Develops and maintains yearly and five year outage plan for all generating resources.
5. Performs liaison function between Energy Supply Production and Wholesale Energy & Fuels.
6. Evaluates alternate fuel sources, and coordinates testing/feasibility studies.

Technical Support – System Planning

1. Performs long range optimal generation planning studies using appropriate software tools.
2. Runs production costing software model to determine production cost of options being considered.
3. Performs risk analysis on least cost generation options from planning studies.
4. Works closely with Environmental Affairs to ensure that future changes to regulations are considered in risk analysis
5. Works closely with Energy Supply-Fuels to stay current on the fuel and energy markets.
6. Supports Energy Supply in evaluating the cost of generation outages and the value of upgrades.

Title: Energy Resource Specialist
PG: 63
Status: Civil Service
Position Reports to: Designated Supervisor
Department: Lakeland Electric
7. Works with Energy Supply on FMPP benefit analysis

Class Code: 2147
Date: 03/09

ADDITIONAL RESPONSIBILITIES:

1. Performs related work as required.

KNOWLEDGE, SKILLS & ABILITIES:

1. Considerable knowledge of the mathematics, economics, and statistics involved in electric utility wholesale energy operations and/or related activities.
2. Considerable knowledge of energy costs and how they are derived.
3. Considerable knowledge of electric system energy modeling.
4. Considerable knowledge of fuels such as coal, natural gas, No. 6 oil, and petroleum coke, including transportation.
5. Considerable knowledge of modeling as applied to statistics, econometrics, planning, electric production, marketing and/or fuels.
6. Knowledge of the sources of technical information and literature and the methods of obtaining and using them.
7. Some knowledge of electric utility capital expenditure accounting, and budgetary controls.
8. Ability to perform short-range energy and demand forecasts, including generation loads, energy consumption, fuel consumption and costs, and weather effects on energy consumption and peak loads.
9. Ability to run unit commitment software and perform analysis of Lakeland and Pool operations for the purpose of allocating cost and benefits to pool members.
10. Ability to communicate effectively, both orally and in writing.
11. Ability to prepare technical reports, analyses, and documents.
12. Ability to establish and maintain effective working relationships with City employees, consultants, other utilities, and the public.

WORKING ENVIRONMENT/CONDITIONS:

Business Operations

Requires sedentary and some physical work that involves walking, climbing stairs, bending or standing some of the time, exerting up to 30 pounds of force on a recurring basis, lifting up to 20 pounds, routine keyboard operations, operation of City vehicles.

Work may include fieldwork as required at various job sites as well as to perform job duties in an office, power plant, and outside environment.

The job risks some exposure to noise levels, dusts, pollen, bright/dim light, extreme cold and or heat, wet or humid conditions, fumes, noxious odors, chemical, biological, electrical and mechanical hazards. Employee may also have frequent exposure to the general hazards of the industrial working environment and construction sites.

The job requires normal visual acuity, and field of vision, hearing, speaking, color perception, sense of smell, depth perception, and texture perception.

System Planning

Requires sedentary and active work that involves walking or standing some of the time, exerting up to 10 pounds of force on a recurring basis, and routine keyboard operations, operation of City general purpose vehicles (automobile or pick up truck), some job duties may be performed in an office environment while other duties may require field work at various outdoor job sites.

The job risks exposure to no significant environmental risk

Title: Energy Resource Specialist
PG: 63
Status: Civil Service
Position Reports to: Designated Supervisor
Department: Lakeland Electric

Class Code: 2147
Date: 03/09

The job requires normal visual acuity, and field of vision, hearing, speaking, color perceptions, depth perception, and texture perception and sense of smell.

QUALIFICATIONS (EDUCATION, TRAINING, AND EXPERIENCE):

1. Graduation from an accredited (4) four year college or university with a major in mathematics, statistics, finance, economics, business, planning, marketing, engineering, or a closely related field.
2. Two (2) years of experience in related planning, analysis, or operations work.
3. An equivalent combination of education and experience that is directly related to the foregoing specific requirements may be substituted.

SPECIAL REQUIREMENTS:

1. Must maintain City driving privileges/valid Florida driver's license.
2. Must maintain a valid contact phone number.
3. Must be able to work in a location remote from the home office without close direct supervision for extended periods of time.
4. Must be able to attend meetings at locations other than primary work location.
5. May be required to work overtime, or alternate hours, as necessary for the efficient operation of the department. Position may be designated as Mission Critical by Department Director.