



## JOB DESCRIPTION

**Job Title:** Resource Planning Engineer

**Position Number:** 93-04

**Incumbent:** New Position

**Effective Date:** May 2025

**Employment Status:** Permanent

**Bargaining Unit:** Yes ☒ No

**Supervisor's Title:** Manager, Resource Planning

### POSITION SUMMARY

The Resource Planning Engineer plays a critical role in planning generation resources and ensuring the efficient and effective delivery of power services to our customers. You will evaluate current and future electricity generation capacity and energy needs and develop and implement strategies that balance supply and demand, enhance grid stability, and support the transition towards sustainable energy solutions for the Yukon Territory.

### DUTIES AND RESPONSIBILITIES

#### Resource Planning & Technical Analysis

- Lead creation and execution of multi-year resource plans that align with Yukon Energy's strategic objectives.
- Manage key inputs and scopes of work, developing Requests for Proposals to secure necessary studies and services.
- Drive Yukon Energy's generation-modeling efforts, conducting economic analyses of hydro, diesel, and gas resources.
- Evaluate water management strategies and their impact on system reliability and cost.

#### Forecasting & Operational Best Practices

- Oversee load forecasting processes to predict future energy demand across Yukon's service territory.
- Support the Demand Side Management program by identifying opportunities to optimize customer usage and defer infrastructure investments.
- Develop and implement operational standards for resource planning workflows at hydro and thermal generation facilities.
- Identify process improvements to enhance efficiency, accuracy, and consistency.

#### Reporting & Stakeholder Engagement

- Prepare technical reports and applications for the Yukon Public Utilities Board, Yukon Government, and internal stakeholders.



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- Participate in regulatory processes, including technical working groups, Requests for Information, and permitting reviews.
- Collaborate with Partnerships to engage Indigenous rightsholders, regulators, and other stakeholders in energy planning activities.
- Represent Yukon Energy in external forums and technical committees.

### **Knowledge Management & Additional Duties**

- Maintain up to date knowledge of Yukon Energy's generation and transmission assets, as well as industry trends in resource planning.
- Incorporate lessons learned and emerging best practices into planning processes.
- Perform additional tasks assigned by management to support Yukon Energy's resource planning objectives.

## **EDUCATION AND EXPERIENCE**

- Degree in Engineering from an accredited university program, electrical or power systems engineering would be an asset and capable of obtaining Professional Engineer designation in Yukon Territory
- Experience in resource planning, preferably in the power utility sector
- Experience with energy modeling and optimization software tools for resource planning
- An equivalent combination of education and/or experience will be considered.

## **REQUIRED SKILLS**

- Plans, manages, and prioritizes work to meet commitments aligned with organizational goals.
- Analyzes and interprets complex data, and sometimes contradictory information, to effectively solve problems.
- Make good and timely decisions that keep the organization moving forward.
- Anticipates and balances the needs of multiple stakeholders.
- Build partnerships and work collaboratively with others to meet shared objectives.
- Communicate effectively; able to collaborate and influence internal and external stakeholders.
- Manage conflict situations effectively.
- Learn quickly when facing new situations and learn from mistakes.
- Identifies and creates the necessary processes to get work done with a focus on continuous improvement.

## **WORKING CONDITIONS**

The position normally works in an office environment with occasional site visits. The incumbent will occasionally face fast approaching deadlines that have to be met, as well as changing priorities and scopes of work and/or budgets.