

## Terms of Reference

### 1. Introduction

**Post:** Lead Engineer (Green Energy)

**Type:** Contract (1 Year)

Note: The company may decide to extend the contract after 1 year based on performance.

**Department:** Technical Services and Green Energy Department

### 2. Position Overview

The Lead Engineer, Power Distribution will be responsible for overseeing the planning, designing, implementation, and management of electrical power distribution systems. This role involves leading engineering teams, ensuring the reliability and efficiency of power distribution networks, and integrating new technologies to enhance the system's performance.

### 3. Reporting Relationship and Communication

Lead Engineer will report to Director of the department daily and regular progress meetings will be scheduled to ensure effective communication and collaboration throughout the duration of the contract unless advised otherwise.

### 4. Key Responsibilities

#### Leadership and Management:

- Lead and mentor a team of engineers, technicians, and support staff working in power distribution and branches.
- Oversee all engineering activities related to power distribution.
- Develop departmental goals, strategies, and performance metrics.

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□ **System Design and Development:**

- Supervise the design and development of power distribution systems.
- Conduct feasibility studies and site assessments for new distribution projects.
- Utilize advanced modeling and simulation software to optimize system design and performance.

□ **Project Management:**

- Manage power distribution projects from inception to completion.
- Coordinate with contractors, suppliers, and other stakeholders to ensure timely project completion.
- Monitor project budgets, schedules, and quality control to ensure projects are completed within scope and budget.

□ **Operations and Maintenance:**

- Oversee the operation of power distribution networks to ensure they operate efficiently and reliably.
- Develop and implement maintenance schedules to ensure optimal performance and longevity of equipment.
- Diagnose and troubleshoot complex operational issues and implement necessary repairs and improvements.

□ **Regulatory Compliance and Safety:**

- Ensure all power distribution activities comply with local, state, and federal regulations.
- Develop and enforce safety protocols to protect workers and the public.
- Prepare and submit regulatory documentation and reports.

□ **Performance Monitoring and Optimization:**

- Monitor the performance of power distribution systems and identify areas for improvement.
- Implement efficiency improvements and system upgrades to enhance reliability and reduce costs.
- Analyze data from sensors and control systems to optimize network operations.

□ **Technological Integration and Innovation:**

- Integrate new technologies, such as smart grid solutions and automated distribution management systems.
- Stay updated with advancements in power distribution technologies.
- Conduct research to develop new methods and technologies for improving power distribution.

□ **Environmental Impact and Sustainability:**

- Assess and mitigate the environmental impact of power distribution activities.
- Promote the use of sustainable practices in the design and operation of distribution systems.
- Ensure compliance with environmental regulations and standards.

□ **Technical Support and Training:**

- Provide technical support and guidance to operators and maintenance staff.
- Organize training programs to enhance the skills and knowledge of personnel.
- Develop and update technical manuals and standard operating procedures.

## 5. Education and Experience

- A Bachelors' Degree or equivalent professional certification (MNQF level 7) in Electrical Engineering, Mechanical Engineering, Environmental Engineering, or a related field with 10 years of professional work experience in related field with strong background in the design, operation, and maintenance of power generation systems. Proven leadership experience in an engineering role.

## 6. Skills and Competencies

- **Technical Skills:** Proficiency in engineering design software (such as AutoCAD, SolidWorks), simulation tools, and control systems. Strong understanding of power distribution technologies and equipment.
- **Analytical Skills:** Strong analytical and problem-solving abilities. Ability to analyze complex data and make informed decisions.
- **Communication Skills:** Excellent verbal and written communication skills for reporting, presentations, and stakeholder interactions.
- **Project Management:** Proven ability to manage multiple projects, coordinate with multidisciplinary teams, and meet project deadlines.
- **Leadership and Management:** Demonstrated leadership abilities and experience managing technical teams.