



Networks Engineer

Position Description

Location 10 Chelmer Street, Oamaru

Reports to Head of Future Networks and Assets

Direct reports None

Who we are We are a team of over 100 passionate and dedicated staff based in the vibrant coastal town of Oamaru. Our district offers a great lifestyle, extending from the mountains to the sea with affordable housing and no traffic worries!

We bring electricity from the national grid to over 13,000 customers in North Otago and parts of South Canterbury.

Our mission is to **promote regional growth and wellbeing through the provision of innovative and sustainable energy solutions for our customers** and we are already delivering on our strategy to achieve this.

We trust our people and care about their wellbeing. We provide modern, flexible working conditions, generous development opportunities and company health insurance.

Our values



Overview of the role

As a Future Networks Engineer, you will play a key role in shaping the long-term performance, resilience, and development of Network Waitaki's electricity network. Your contribution will help ensure our customers can use our network to support their ongoing technology and resilience needs.

In this role, you will:

- Research customer energy needs, electrification trends, and emerging technologies to inform future energy scenarios.
- Model customer growth and technology-adoption scenarios to understand how the network will perform under different future conditions.
- Investigate innovative, cost-effective solutions to support network development, resilience, and long-term investment planning.
- Produce clear, well-structured business cases and project scopes that contribute to strategic and regulatory planning requirements.
- Actively participate in cross-business projects to integrate new technologies, digital tools, and systems that improve operational efficiency, data quality, and organisational capability.
- Build strong professional relationships with local community and peers across New Zealand to share insights, support best practice, and strengthen planning capability.

Your work will directly inform Network Waitaki's long-term asset planning and investment programmes, contributing to Aotearoa New Zealand's transition to a low-carbon and technology-enabled energy future.

Key responsibilities

Live and breathe health and safety

- Ensure you keep yourself and others healthy and safe
- Identify, and reduce risk from, hazards in your workplace
- Embed 'Safety in design' principles into your role

Contribute to our team culture

- Act in alignment with our values and share your successes, failures, and innovations
- Take ownership of issues
- Support our team to deliver our goals

Network Analysis & Approvals

- Assess the network impact of new large load and distributed generation (DG) applications.
- Work with Engineering and Customer Services teams to ensure efficient, customer-focused outcomes.
- Support continuous improvement of connection standards and processes.

Demand Forecasting & Future Energy Scenarios

- Support development of our network Powerfactory model.
- Keep up to date with technology uptake and consumption trends, including EV uptake, solar, batteries, and process-heat electrification.
- Contribute to the future energy scenarios used for our investment planning.

Resilience & Network Enhancement Projects

- Perform community resilience assessments and network security/capacity studies, identifying vulnerabilities and opportunities.

- Translate insights from studies into practical network enhancement options.
- Develop business cases for enhancement initiatives.
- Contribute to preparation of AMP content related to security, capacity, and future networks.
- Deliver selected projects, with mentoring from senior engineers.

Continuous improvement

- Actively participate in cross business projects to integrate new technologies, digital tools, and systems that improve operational efficiency, data quality, and organisational capability.

Personal & Technical Development

- Grow your capability in network modelling, scenario development, and project delivery.
- Take advantage of development opportunities.
- Build a strong professional network across the electricity sector.

Performance indicators

- No injuries or harm to you or your colleagues arising from your work and activities.
- Completion of at least two community resilience/ network enhancement studies, with options developed through to business cases
- High-quality network impact assessments for load and distributed generation (DG) connections.
- Future energy scenarios updated annually, incorporating emerging technologies and sector trends.
- Accurate, well-maintained forecasting models with clear and accessible documentation.
- AMP Security of Supply and Capacity Studies completed on time and to regulatory standards.
- Thorough, timely inputs into Transpower demand forecasts and other submissions.
- Active contribution to improvement of our systems

Key Skills, experience and attributes

Qualifications

Tertiary qualified in Electrical Engineering (or similar) with specialisation in power systems or energy technology.

Experience

- Understands the principles of zero harm and sustaining a high-performance culture.
- Strong background in electricity distribution networks, asset management, or strategic engineering.
- Tenacity in taking complex problems to successful outcomes despite potential barriers.
- Proven ability to build and maintain strong collaborative working relationships.
- Solid conceptual and reasoning skills and the ability to think strategically.
- Excellent verbal and written communication skills.
- Data analysis skills and understanding of statistical methods (preferred)
- Experience with common desktop PC applications and advanced applications relevant to power system analysis. (Digsilent Powerfactory and Power BI preferred)
- Commercial, financial, and risk management skills to develop project budgets and to undertake financial assessment of project options (preferred)
- A practical understanding of construction and engineering techniques (preferred)
- Experience in scripting using Python (preferred)

Memberships

- Membership of Engineering New Zealand or equivalent institution (preferred).
- Professional engineering registration (preferred)

Key relationships

You will report to the Head of Future Networks and Assets and be part of the Future Networks and Assets Team, a team of five people who plan and maintain our network.

You will work closely with our Engineering, Customer services, GIS and Finance teams.