



Energy Solutions Engineer Position Description

Location	10 Chelmer Street, Oamaru
Reports to	Network Development Manager
Direct reports	Nil
Who we are	<p>Network Waitaki is an electricity distribution and energy services business that powers our local economy.</p> <p>Our core business is bringing electricity from the national grid to over 13,000 connected customers in North Otago and parts of South Canterbury, providing innovative energy solutions to our customers.</p> <p>We also have a growing contracting business which provides electricity distribution network construction and maintenance services across New Zealand.</p> <p>We are based in the vibrant coastal town of Oamaru with a team of around 70 passionate and dedicated staff.</p>
Our values	

Purpose of position	<p>To lead the investigation and implementation of new energy technologies and solutions both on the network, and 'behind the meter' to improve safety, network performance and customer service levels.</p> <p>To identify opportunities and meet customer requirements for new energy solutions including distributed energy resources and other demand side technologies.</p> <p>To develop and manage our metering, monitoring and load control assets, ensuring that functional and regulatory compliance requirements are met.</p> <p>To provide data analysis and develop network and business case models to support new energy solution projects.</p>
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Key Accountabilities

Health and safety

- Take responsibility for your own health and safety
- Ensure your actions keep yourself and others safe
- Identify, report and assist to eliminate, hazards in your workplace
- Embed 'Safety in design' principles into all aspects of your role

Team contribution

- Contribute positively to Network Waitaki's culture and openly share successes, failures, and innovations within the Network Waitaki team
- Ensure internal and external customers are satisfied and kept well-informed
- Work in a manner that clearly aligns with the Network Waitaki's values

Network and Customer energy solutions

- Actively research and identify new energy solutions opportunities to meet customer and network requirements. This includes the safety, technical and commercial evaluation of opportunities involving distributed energy resources, embedded generation, storage and demand management technology.
 - Monitor and investigate the impacts on the network from emerging technologies such as electric vehicles, solar energy, energy storage, smart customer devices, and customer demand management.
 - Assist with relationship management of customers, system suppliers and other parties to achieve project outcomes.
 - Responsible for the management of Network Waitaki owned energy solutions located within customer premises (incl. behind the meter installations) to ensure safety, technical and commercial outcomes are achieved.
 - Undertake post implementation and periodic reviews of customer energy solution projects to ensure specified outcomes are being achieved and benefit realisation with feedback of learnings into future projects.
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Metering systems management

- Management and development of low voltage network monitoring and metering technologies to meet network and customer needs.
- Management of our existing legacy revenue metering assets, ensuring regulatory compliance in accordance with the EIPC and EA requirements.
- Management of our load control receiver assets, including system optimisation and functional development.
- Maintain awareness of the commercial and technical developments in the metering market in NZ, responding to business threats and opportunities.
- Assist with third party meter owner enquiries, ensuring other MEP assets and meter installations meet required standards (e.g. load control capability and metering configurations meet tariff requirements).
- Management of data integration between metering platforms, retailer or meter owner systems and Network Waitaki operational systems.

Network Modelling and Analysis

- Undertake network modelling and analysis to assess the impacts of new energy solutions on the network, including updating of source information and load forecasts
- Assist in development of the network load flow models and integration with our GIS system
- Assist with the assessment of planned customer work on the network, and identify network and non-network reinforcement solutions
- Prepare work scopes and high-level designs for network reinforcement projects to assist with the integration of new energy technologies on the network
- Identify and obtain relevant system information from network and non-network sources to support analysis and optimisation of the network (e.g. SCADA data, smart meter data, etc)
- Analysis of network trends and loads using BI tools (Power BI or similar)

Key Performance Indicators

- Demonstrable leadership of team safety, wellbeing and productivity
 - No injuries or harm to you or your colleagues arising from your work and activities
 - Twelve site safety visits per year
 - Demonstrated contribution to a positive, collaborative work culture which aligns with Network Waitaki's values.
 - All metering activities meet code compliance requirements
 - Delivery of assigned business plan objectives within agreed timeframes
 - Exceptional customer service provided with no negative feedback received
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Preferred Attributes

Qualifications	Tertiary qualified in Electrical Engineering with specialisation in power systems or energy technology
Experience	<ul style="list-style-type: none"> • 5+ years' experience in electrical engineering, energy technology, or a related field • Good knowledge of electrical generation, transmission and distribution systems. • An understanding of electrical metering, monitoring, protection and control systems. • Experience with common desktop PC applications (required), and advanced applications relevant to power system analysis (preferred). • Commercial and financial skills to establish project budgets and to undertake high level financial assessment of project options. • A practical understanding of construction and engineering techniques. • High level of conceptual and reasoning ability to think strategically. • Excellent verbal and written communication, including report writing • Proven ability to build and maintain strong collaborative working relationships • Strong ability to foresee challenges, read situations and respond efficiently and effectively • Tenacity in taking problems through to successful outcomes despite potential barriers
Memberships	Membership of Engineering New Zealand or equivalent institution (preferred).

Relationships

Most Frequent Contacts	Nature or Purpose of Contact
Network Development Manager	Leadership, direction and guidance
Engineering team	Communication and co-operation
Our contracting team	Communication and co-operation
Our customers	Communication and engagement
Equipment suppliers and solution providers	Communication and engagement
Other lines companies	Collaboration and knowledge sharing