

### BUSINESS DECARBONISATION AND GROWTH





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# **PowerNet Capability Statement**

### What We Do

We manage electricity networks across

- Central Otago
- West Otago
- Queenstown-Lakes
- Southland
- Stewart Island
- In 2023-2024, PowerNet has
- \$805 million of assets & investments under management
- 304 employees across region
- 76,500 Customers
- \$108.2m Annual Turnover
- 14,000 km lines, 74 subs
- \$60-\$80m pa Capital Spend
- \$25-\$35m pa Operational Spend





## New Energy Capabilities



**Solar and Battery Systems** 

**Off-Grid Systems** 

**Smart Home technologies** 

**Smart Metering** 

Electric Vehicle Charging Infrastructures



## Lakeland Network Queenstown Developments



#### Partnering with the Lakeland Network offers:

- A modern, reliable underground network, not exposed to the variabilities of weather or the challenges of vegetation
- Multiple connection models, where we work with you to meet your requirements
- A local team that has expanded to accommodate regional growth, on the ground to build, operate and maintain the network
- Expertise with knowledge and experience in the majority of developments across the region
- Flexibility and an ability to adapt to shifting time frames for development connections • Cost reductions enabled from our capability to manage the electrical reticulation.



## Lakeland Network Wanaka & Cromwell Developments



#### Get in touch so we can tell you about:

- The benefits of our underground, modern network
- Our range of connection models available to meet your needs
- Our local team and the benefits they bring by being on the ground to adapt to your timelines, build and operate the network, and maintain it as required once it is commissioned
- Our proven track record across the region, being involved in developments in Wānaka and Cromwell
- The cost reductions enabled by our ability to manage the electrical reticulation.





### Electricity demand by sector





Source: Te Mauri Hiko Energy Futures, Transpower

## PowerNet Region – opportunities



## PowerNet Region – industrial process heat



• 44 customers

- 10% of NZ manufacturing emissions
- 1.2% of all NZ greenhouse gas emissions
- 430 MW of electrical capacity
  - 190 MW high temp (>85°C)
  - 240 MW low temp (<85°C)



# Customers leading decarbonisation









- Awarua site | process heat | 30MW electrode boiler. **Commissioning in Sept** 2025.
- Exploring further decarbonisation options.
- Mataura site | process heating | 20MW electrode boiler 40 bar
- Network upgrades: Gore GXP transformer 80MVA (110/33kV), Zone substation transformer 25MVA (33/11kV), extension of existing 33kV cables, switchboard, breakers.
- \$5m GIDI fund. Commissioned Dec 2023.
- Lorneville site | process heating | 16MW electrode boiler, 3MW heat pump and recovery systems
- Network upgrades: feeder boards and switch gear, protection system.
- \$5m GIDI fund. Commissioning Q2 2025.
- Invercargill campus | largescale space heating | 1MW electrode boiler & energy storage (hot water)
- Network upgrade: Distribution transformer 1MVA.
- State sector decarbonisation fund. **Commissioned Q1 2024**.



## Case Study: Open Country Dairy 13MW Electrode Boiler (2020)

Expansion of the site to produce a wider range of products and increase production capacity by 50%

Expansion included the commissioning of a 13MW electrode boiler

 Largest electrode boiler in Southern Hemisphere (at the time)

Customer has:

- Strong environmental focus
- Willingness to adopt new technologies





# How PowerNet can help



An individualised and systematic approach to meet each customer's requirements



Information on available electricity network supply capacity and pricing



Identify solutions that are technically and economically viable and robust



We leverage and connect you with partners who are industry and technology leaders



Support for decarbonisation, electric vehicle charging, solar, batteries, new energy technologies and energy efficiency



Facilitate knowledge sharing with customers about their decarbonisation journey

#### Growth



Kewal Bagal GM Business and Customer Growth Email: kbagal@powernet.co.nz



#### Engineering

Phil Chittock Network Engineer Email: pchittock@powernet.co.nz Cell: +64 27 229 3119





Eric Sng Contract Delivery Manager Email : esng@powernet.co.nz Cell:+64 21 211 9702

#### Current development status



