

BUILDING A SAFE NETWORK FOR YOU, US, AND OUR PARTNERS



At Aurora Energy we have an uncompromising approach to safety. That's because for us, keeping you, our team, and our contractors safe is our number one priority. Therefore, we are committed to ensuring our decisions and safety management practices protect you, and the integrity of our network for the future.

Our Safety Delivery Plan responds directly to the Commerce Commission's Information Disclosure Determination (2021) that asked us to demonstrate how our projects and programmes will reduce our network safety risks during the 5-year CPP period (2022-2026).

Our plan shows how we will ensure a future-proofed, safe, and resilient network.

Over the CPP period, we forecast the following asset replacement investments will be required to manage safety risks:

5,387 power poles

15,668 crossarms

358km of overhead power lines

299 distribution transformers

1,442 units of switchgear

all 294 cast iron pot head terminations for underground cables

and the renewal of 386 secondary protection systems

THERE ARE THREE KEY AREAS TO ENSURE **EVERYONE'S SAFETY**

-  **Managing safety risk**
-  **Investments to manage safety risk**
-  **Network safety risk profile**

THERE ARE FOUR TYPES OF **MAINTENANCE**

-  **Preventive:** Carrying out regular asset inspections, condition assessments and servicing
-  **Corrective:** Rectifying defects, and carrying out repairs and minor asset replacements
-  **Reactive:** Fault response and emergency switching
-  **Vegetation:** Carrying out an entire network vegetation management programme

We will continue to enhance our safety risk quantification by:

- Expanding and refining our asset **risk assessment model** to each group of asset types
- Transitioning from asset health as a proxy for risk quantification, to defining criticality areas on our network that represent **higher safety consequences**
- Analysing the **exposure to safety risks** based on where and how assets are installed, the likelihood of assets reaching an unsafe state, and how each asset is graded against safety risks and asset failure
- Collecting live data from our Asset Management Software Solution (AMSS) and Geographic Information Software (GIS) to **score each asset by its health and risk profile**
- Identifying **intolerable risks** as those assets in poor health and high safety criticality

How we will know we've delivered

For us, we will know we have delivered when we see a **reduction in the number of assets with safety risks** above our risk appetite, with mature practises in place to identify, forecast, predict, and then mitigate known risks.

Our improved safety management system will **ensure we invest in the right places at the right time**, underpinned by a strong inspection and maintenance programme that is carried out by contractors who perform to the highest safety standards.

Measuring our performance

We will track the safety performance of our network, and **keep you updated on our progress** in our Annual Delivery Reports. Our first Annual Delivery Report (Interim) is due in 2022. For a full copy of our Safety Delivery Plan, go to www.auroraenergy.co.nz/disclosures/delivering-our-cpp

We will manage safety risks by:

- Managing risks from a **public safety and personnel safety** perspective, by assessing the health of electricity assets in proximity to members of the public, the safety design of our assets, and the safety practices of our contracting partners
- Using a number of management strategies to achieve **'As Low As Reasonably Practicable' (ALARP) safety risk**, with a hierarchy of controls in place to help us mitigate potential hazards
- Giving **priority to higher risk asset types**, like overhead high voltage power lines
- Balancing investment decisions by **analysing cost versus risk-reduction**
- Reviewing the **sustainability of our network programme** by balancing investment in each asset type over their lifetime
- Monitoring the **safety performance of our contractors**