

Company Facts
Overview

- Location – Victoria
- Industry – Power Generation & Transmission

Success Highlights
Challenges

- Environmental Risks
- Operational Inefficiency

Solution

- RCM II
- MIL-STD-2173
- Isograph RCMCost

Benefits

- Operational Efficiency
- Improved Inspection Intervals
- Long-term Asset Retirement Forecasts
- Realignment of CMMS Strategies
- Compliance
- Cost Effectiveness
- Fire Risk Reduction
- Asset Life Extension



RCM Application Reduces Bushfire Risk in Electrical Utilities

As Reliability-Centered Maintenance (RCM) specialists, the Mantua Group led a critical maintenance strategy review for Victoria’s largest electricity distribution network—a combined business with over **84,000 km** of circuit length, **\$6.7 billion** in regulated assets, and **1.25 million customers**.

The Business Situation

With more than **400,000** power assets operating in bushfire-prone regions, the utility sought to mitigate environmental risk while enhancing operational efficiency.

The Solution

Applying the RCM II framework, the Mantua Group assembled a multidisciplinary team of power asset experts, wood degradation specialists, and internal Subject Matter Experts (SMEs). Each asset class was systematically evaluated for functional performance, potential failure modes, consequences, and appropriate interventions. Special focus was given to wooden poles due to their criticality and exposure to fire risk.

A dedicated data scientist supported the project by mining performance histories to build statistical failure models. Using MIL-STD-2173 and principles from Isograph’s RCMCost, the Mantua Group conducted thousands of simulations to refine inspection intervals and develop long-term asset retirement forecasts.

The process identified several opportunities to realign existing CMMS strategies with risk-based, condition-aware plans. All decisions were thoroughly documented in RCM II format, ensuring defensibility and repeatability.

The Business Impact

The result was a data-driven, transparent asset maintenance program that balanced safety, compliance, and cost-effectiveness—ultimately reducing fire risk and extending asset life in a high-stakes environment.

