

Mantua Group Success Story:
Energy Production

Company Facts
Overview

- Location – Australia
- Industry – Power Generation and Distribution

Success Highlights
Challenges

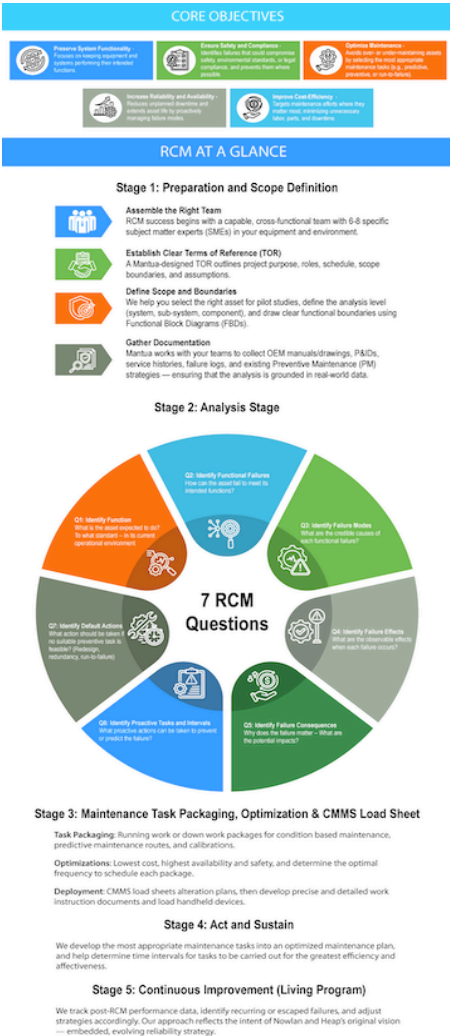
- Asset Maintenance
- Reliability
- Output

Solution

- RCM II

Benefits

- Evidence-based CAPEX
- Reduced Public Risk on Critical Assets
- Improved End-of-life Forecasting Confidence
- Adoption of a Reliability Culture



RCM in Regulatory Submissions
Strategic Training Across the Australian Sector

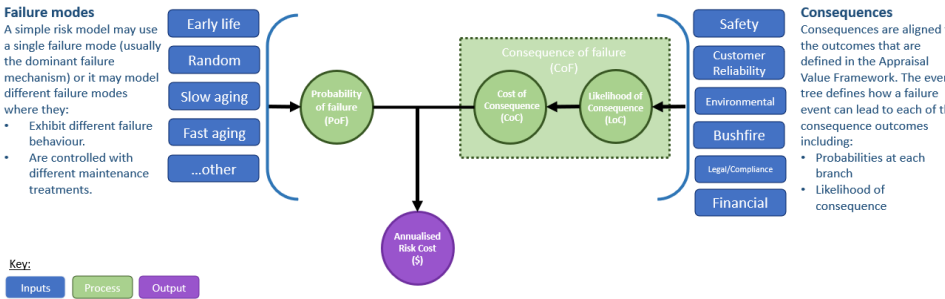
The Business Situation

This case study explores the application of Reliability Centered Maintenance (RCM) as a key enabler in energy utility regulatory compliance and asset risk management within Australia. Under the oversight of the Australian Energy Regulator (AER), RCM plays a critical role in justifying capital and operational expenditures that directly impact the cost of electricity for millions of Australians.

The AER regulates the energy markets across all Australian states and territories, except Western Australia. Every five years, regulated electricity network providers must submit a comprehensive suite of business cases, asset management plans, and risk justifications to secure funding for the next regulatory period. These submissions define electricity prices and determine the allowable CAPEX for maintaining and upgrading the grid.

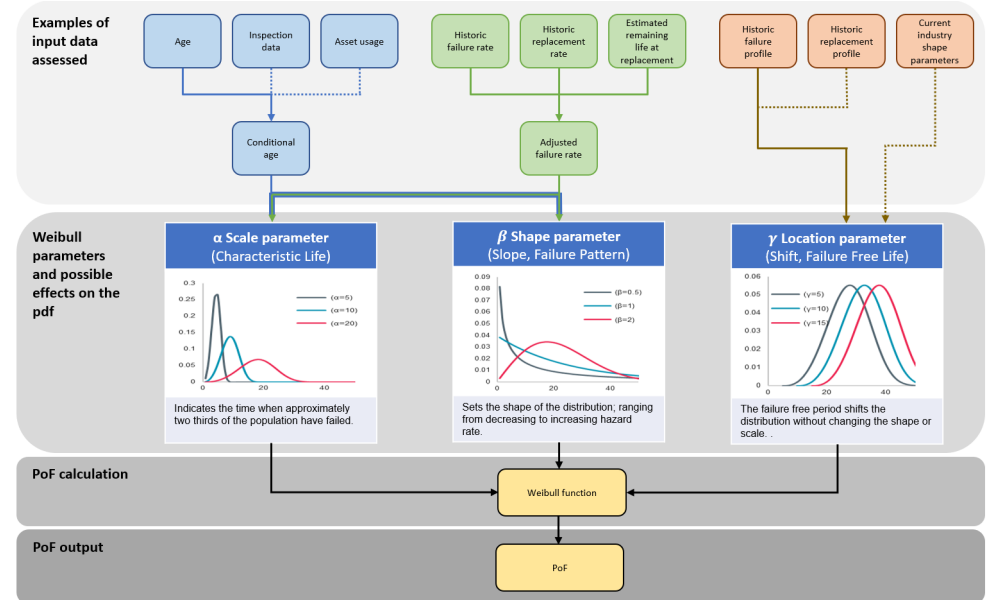
The Solution

Reliability Centered Maintenance serves as the analytical foundation that underpins much of the risk and expenditure justification. RCM examines the intended functions of network assets, identifies potential functional failures, analyzes their causes and effects, and recommends predictive or preventive actions. These steps are critical to demonstrating that utilities are managing public safety and reliability risks as low as reasonably practicable (ALARP).



The Mantua Group has worked extensively with major Australian electricity providers to implement and train teams in RCM principles. Their contributions include certifying maintenance strategies and leading strategic training for

asset and reliability engineers — as well as senior staff and leadership at Energy Safe Victoria.



Training Experience

Philip, founder of the Mantua Group recounts a training session where participants asked highly advanced questions within the first 30 minutes. Realizing the caliber of the attendees, he paused the scheduled curriculum and pivoted to deliver an expert-level RCM course on the fly. This customized session included practical applications of Weibull analysis for predicting asset renewal timelines and end-of-life planning. The impact was profound, with several attendees later advancing into senior leadership roles across the energy sector.

The Business Impact

By integrating RCM into their AER submissions and operational planning, utilities have achieved:

- Evidence-based CAPEX justifications
- Reduced public risk profiles for critical assets
- Higher confidence in end-of-life forecasting
- A more skilled, reliability-focused workforce

RCM continues to serve as a linchpin for prudent asset management and long-term reliability in the Australian energy market.

