



# Reducing Maintenance Costs

Helping organisations to leverage changes in their approach to maintenance that sustainably realise long-term benefits, including maintenance strategy, cost and criticality and Reliability-Centred and Risk-Based Maintenance methodologies.



## Industry Need

“Our asset reliability is not acceptable and maintenance budgets are constrained or reducing.”



## Catalyst for Change

Increasing pressure on maintenance budgets and increasing understanding of consequence of asset failure means historical maintenance practices are no longer fit for purpose.



## Outcome Delivered

Improved reliability at same / lower maintenance cost.



## Why AMCL?

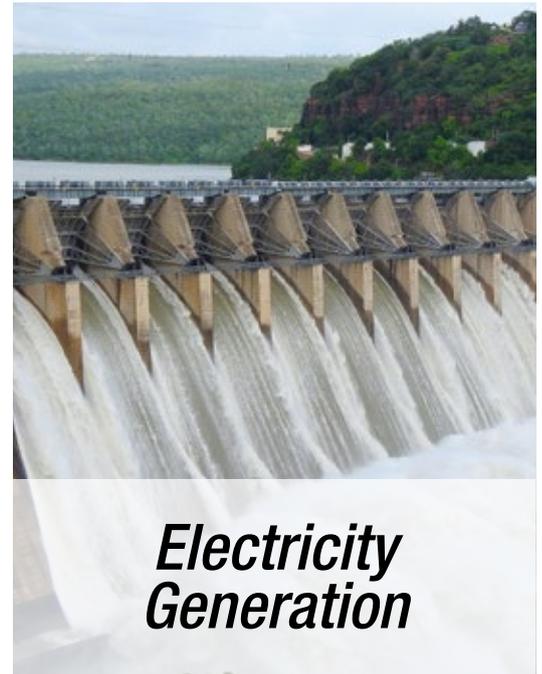
- Proven RCM / RBM methodology
- Track record
- Ability to integrate outcomes with Asset Information standards & systems

## Case Studies

As part of a broader Asset Management Transformation programme for a UK-based electricity generating company, AMCL supported the organisation in developing Risk Based Maintenance (RBM) regimes for a range of their electricity generating and gas storage assets, including hydro, wind and gas-powered generating plant. The engagement included:

- The tailoring of the RBM process in consultation with the organisation's stakeholders which has the potential to enable them to develop and justify changes to maintenance regimes based on cost-risk optimisation principles.
- The configuration of Failure Modes Effects Analysis (FMEA) and Cost-Risk Optimisation (CRO) approaches to enable the process.
- Facilitating pilot studies as a proof of concept for the approach.
- Supporting the organisation in planning to adopt the approach.

Through the targeted pilot study of Hydro Generation assets we were able to help the local team identify potential cost saving through increasing intervals in legacy maintenance activities.



## International Airports

AMCL recently worked with one of the world's major international airports to help them optimise their maintenance approach, ensuring it was demonstrably driven by their corporate needs and objectives, providing the organisation with the frameworks, tools and techniques to ensure maintenance activities were optimised and efficient. This included:

- Undertaking an overall Asset Management maturity assessment to gauge the organisation's level of maturity and integration.
- Completing a review of international airport and general industry maintenance best practice.
- Developing a criticality analysis to help prioritise maintenance analysis plans.
- Developing a maintenance strategy framework to help select the most appropriate analysis techniques to use for each asset type (for example, RBM, FTA or RBD).
- Supporting the organisation to plan and complete an improvement program focused on Reliability Centred Maintenance, (RCM), Fault Tree Analysis, (FTA) and Reliability-Block Diagram, (RBD) techniques.

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