



For optimum performance and life extension of capital assets, companies with high value electrical plant have to be able to balance their immediate and longer-term requirements.

In the immediate-term output must be maximised while in the longer-term the effect this may have on premature plant failure must be addressed e.g. stressing electrical plant to achieve higher output may significantly shorten its life. In order to address these issues, ERA Technology can help companies establish an effective asset management strategy.



Effective asset management can increase profitability by:

- Optimising performance
- Decreasing unplanned operational interruptions
- Minimising the need for premature replacement
- Increasing the useful life of electrical assets through appropriate maintenance procedures and life extension strategy
- Reducing the risk of personal injury.

ERA has developed a systematic approach to the assessment of capital intensive electrical plant and equipment used in a variety of business sectors. These include power generation and distribution, oil refining and petrochemical, and the process and manufacturing industries. In-depth technical expertise, covering all types of electrical plant and equipment, enables ERA to offer an internationally recognised world-wide service.



This approach is complementary to other ERA activities covering the metallurgical and mechanical aspects of plant life asset management.

ERA's five phased approach, tailored to meet customers' requirements, allows a risk-based assessment of the monitoring and maintenance required to optimise the performance of these assets. Expenditure can be prioritised or even deferred giving significant economic benefit. The risk of premature failure can be quantified and appropriate risk management strategies put in place.

Electrical Plant and Equipment

ERA's electrical plant and equipment experience covers all voltages and ratings from low voltage through to 400kV in the following areas:

- Transformers and tap-changers
- Switchgear
- Motors and generators
- Uninterruptible power supplies (UPS)
- Cables, joints and terminations
- Batteries
- Standby power systems
- Power factor correction.



ERA Technology Ltd

Since its foundation in 1920, ERA has evolved from its roots as a research association to become a centre of excellence in engineering technology with a strong brand and reputation, sitting at the forefront of specialist asset integrity service provision.

ERA is committed to delivering professional services to our customers across all business sectors, assisting them in reducing technical and commercial risk, improving the operational performance of their assets and developing and enhancing the competitiveness of their products and systems.

ERA Offers the Following Services:

AccessERA

(Publications, Training Courses, Newsletters & Information Services)

EMC and Radiocomms

(EM Management, Measurement and Modelling)

Engineering Consultancy Services

(Condition Assessment, Power Systems Analysis, ERACS Software, LV Electrical Product Testing, Failure Analysis and Materials & Design Consultancy)

Reliability and Failure Analysis

(Forensic, Analytical and Environmental Compliance Services)

System Safety Engineering and Assurance

(ISA, Safety Management Consultancy, Safety Process Audits, Software Assurance, Product Safety Assessments and Standards Compliance, RAM Engineering and Assurance).

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