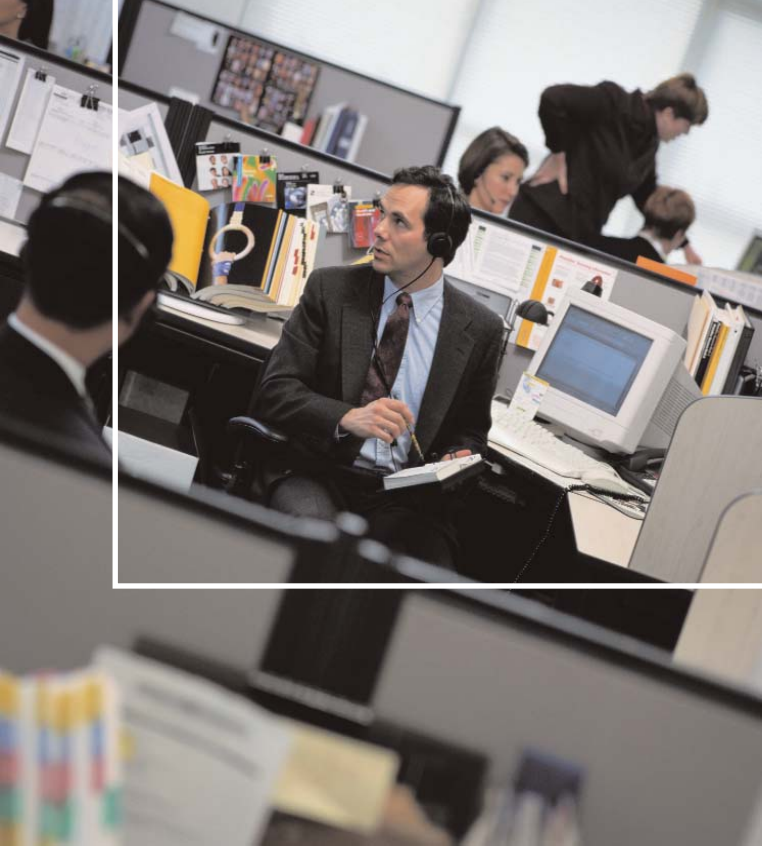


electrical power resilience



ERA's electrical power resilience services ensure that an organisation's electrical power supply arrangements are resilient to disturbances and will continue to meet operational requirements.

Organisations are becoming increasingly reliant upon the availability and integrity of business critical electrical and electronic equipment: whether it is for communications, finance, production or even life support systems. Due to this dependence, it is crucial that a high quality electrical power supply is constantly available to these organisations.



Public electrical power supplies by their very nature are subject to a wide range of faults such as waveform corruption and partial or total failure. The severity and frequency of these disturbances will depend upon the characteristics of the local electrical supply and the susceptibility of connected equipment. Equally, standby power supplies can also be subject to problems during the changeover process, load matching and continuity / stability issues.

For these reasons, users with critical processes or equipment should regularly undertake reviews of the resilience of their electrical power systems. ERA Technology's power systems services are based on many years of in-depth electrical engineering experience and offers organisations assistance with such resilience concerns that cover all aspects of electrical power systems from initial design specifications through to routine reviews.

A typical ERA resilience review covers all aspects of the electrical power system including:

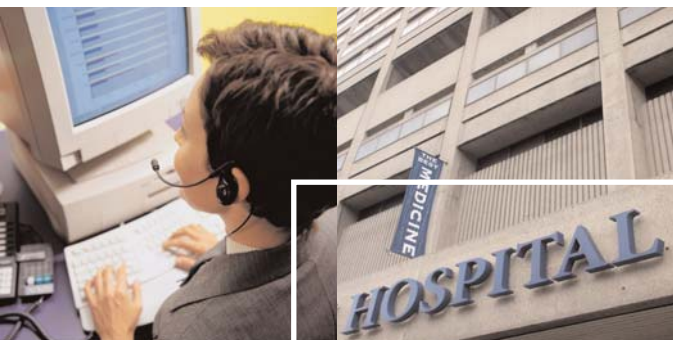
- Generator sets
- UPS
- Batteries
- Protection devices
- HVAC systems
- Harmonic surveys
- Witness testing
- System health checks
- Failure analyses
- Fuel systems
- Transformers
- Switchgear
- Distribution systems
- Load characterisation
- Systems design and specification
- Commissioning
- Earthing practices



Benefits

The benefits of an electrical power system resilience review can far out-weigh the costs, yet some organisations still do not recognise their vulnerability to electrical power system failure until after the event.

An ERA resilience review will identify those issues that need further consideration and provide recommendations based on best industry practice. Previous reviews have identified where systems are unnecessarily complex or badly designed resulting in an increased risk of disruption rather than an improvement in the resilience of supply.



One of the major strengths of ERA is its independence.

This provides the greatest assurance of a comprehensive service to clients that are not only impartial but confidential and professionally delivered.



ERA Technology

ERA Technology works at the leading edge of many advanced technologies. The business was founded in 1920 and today provides specialist, high value-added, technology-based services including design and development, testing, assessment and expert advice.

The company has built an international reputation for technical expertise through constant innovation at the leading edge of technology. ERA's services reduce technical and commercial risk, improve the operational performance of engineering infrastructure assets, and enhance the competitiveness of products and systems.

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