SIEMENS
Ingenuity for life

Electrical asset audit and recommendations

Complete visibility for efficient energy resilience

siemens.co.uk/energy-resilience

Do you know how resilient your electrical assets are?

All businesses understand that energy resilience is the foundation of operational resilience. The cost of getting this wrong can be huge, with electrical outages and downtime resulting in **£180bn**[1] lost every single year. Yet the complexity and costs involved with managing an estate mean that ongoing maintenance is seen as an unnecessary expense. When electrical assets seem to be working as required, investing in an energy resilience audit may not seem a priority. However, without visibility of electrical asset performance, businesses risk unplanned downtime due to equipment failure. Combined with a lack of performance data, businesses are ultimately left unable to identify threats to their resilience – putting operational performance at risk.

For many, energy reliability depends on legacy equipment that requires continual attention and ad-hoc repairs. Or a 'fit and forget' mentality, in which short periods of downtime become a manageable alternative to financial outlay for transformative improvements. Whereas the truth is that forewarned is forearmed, and preventative maintenance and risk identification is more efficient and cost effective than urgent repairs and unplanned downtime. Siemens' electrical asset audit and recommendation service offers peace of mind and performance insight, giving you oversight of your estate and the tools to keep your operation resilient.

How well do you know your equipment?

Siemens estimates that 70% of its Reyrolle switchgear pre-dating 1970 is still in use across the country, often making up the core of a business' critical power. But many organisations have a much more complex patchwork of electrical assets to deal with. When estates have been added to, altered, and adapted over the years, keeping track of equipment and process changes is challenging. Often, businesses are working with a patchwork of legacy electrical assets and new investments, with no clear sense of the health of critical electrical items like switchgear, circuit breakers, transformers and cabling. This issue is further compounded by years of ad-hoc repairs carried out by multiple individuals (some of whom may have left the business), with no standard servicing or reporting.

This makes it hard to carry out routine maintenance and spot potential problems in a proactive manner. At best, this leads to inefficient estate management – but at worst, this poses a serious risk. Without a comprehensive understanding of electrical asset health, equipment could fail at any time with little warning, leading to the interruption of critical operations and an urgent requirement for costly repairs. The solution? A strategic, data-driven and forward-thinking approach to risk identification to help you take action.

[1] themanufacturer.com/articles/machine-downtime-costs-uk-manufacturers-180bn-year

Did you know?

A **single hour**[1] of downtime can cost anything from £800 an hour for a small business to £100,000 per minute at a large, global organisation. Meanwhile, recent figures from the U.S. indicate that outages cost the economy almost **$150 billion**[2] annually.

The Siemens difference

The path to true energy resilience begins with a full and thorough review of your current equipment, including cables, switchgear, transformers, circuit breakers, boards, fittings and more. Our experts will build a comprehensive picture of your estate, creating the visibility required for you to understand its current health and decide repairs that should be made as a matter of priority. Then, we'll establish a clear maintenance schedule, helping you ensure the longevity of electrical assets and budget more efficiently for repairs that need to take place. This improves the lifespan of your electrical assets and minimises the risk of unexpected failure for decades to come, in turn protecting your operational resilience and business reputation.

Beyond looking at the here and now, what makes our approach unique is our ability to spot where problems will develop in the future. Our team are the experts that the experts call when things go wrong, which stands as testament to the depth and breadth of our understanding of electrical infrastructure.

That means we can correctly diagnose existing issues and accurately predict future developments or flag where issues may arise, creating the most efficient, comprehensive and forward-thinking electrical asset maintenance strategy for your business.

Key benefits

Siemens' electrical asset audit and recommendation service offers both immediate impact and long-term value across your estate, no matter how complex your energy landscape is. Through this service, we can help you:

- Consistently identify hidden risks
- Create comprehensive visibility over your estate
- Establish a clear maintenance schedule
- Understand where and why faults occur
- Gain foresight over potential issues
- Safely prolong the use of critical power hardware to maximise value
- Budget for repairs and upgrades more efficiently and with greater clarity, thanks to scheduled maintenance and servicing

"Modern energy demands a strategic, comprehensive and innovative approach to resilience. Not least because the cost and impacts of failure and downtime are so huge. Key to achieving this is to have a robust, pre-emptive maintenance plan, with increased asset visibility across entire estates, greater knowledge of potential issues, and the ability to identify faults before they become major risks."

Toby Horne, CEng MIET LISM, Resilience Lead, Siemens Smart Infrastructure

[1] dailybusinessgroup.co.uk/2017/10/how-much-does-a-power-cut-cost-your-business
[2] bloomenergy.com/blog/a-day-without-power-outage-costs-businesses