

Roke

Part of the
Chemring Group



Digital resilience

a partnership between Ricardo and Roke

A new approach to cyber security

- Energy infrastructure is no longer isolated from digital threat.
- Digital resilience is a new approach to prepare for emerging technologies and associated risks.
- Cross-industry collaboration with manufacturers to assess and manage digital risk as a core part of the full system lifecycle.

The electrical energy networks sector continues to experience a period of rapid change as markets develop further to accommodate the continuing penetration of distributed energy resources, the uptake of electric vehicles and the potential development of distribution system operator responsibilities. Advances in the development and expansion of associated information and communications technology (ICT) systems are enabling and supporting these changes.

Increasing threat exposure

As levels of ICT systems supporting power network operations rise, there is a corresponding rise in the exposure of power network operations to the evolving cyber threat landscape.

Major risk requiring board-level responsibility

We support companies in developing their capability to resist cyber threats, identify breaches and contain impacts when a breach occurs. We provide a framework to help develop an understanding of cyber threats in terms of business risks and verify that the cost of mitigation activities is proportionate to the consequences of the perceived risks.

Assistance with specific topics

We can help with setting up teams, developing policies and procedures, and deploying tools to address specific facets of cyber security including:

- Intrusion prevention.
- Asset vulnerability management.
- Network segmentation and firewalls.
- Operating system configuration and lockdown.
- Application of artificial intelligence techniques to network traffic analysis.

- Logging and breach detection.
- Breach recovery.
- Legal and regulatory compliance.

About our partnership

Roke and Ricardo bring together 160 years of innovative engineering experience.

Our combination of expertise in secure and resilient systems, and electrical power grids and their associated operational management ICT, makes us ideal partners to help energy network businesses become digitally resilient.



Contact us at enquiries@digitalresilience.info to find out how we can help reduce your exposure to the potential risks posed by the cyber threat environment.