



Electrical Network Modelling and Planning



Our network modelling analysis and planning approach will provide you with a preliminary understanding of the present-day and future state of your network. Our specialist team will work closely with our clients to simulate their HV and LV electricity distribution networks.



What this means to you

Our system modelling and network planning team carries out power system modelling and analysis projects for some of the most critical UK infrastructure (railways, airports, ports) to add value to the private networks of our clients.

The benefits that such studies are but not limited to:

- ✓ Plan the required electrical capacity for your operations so your network is future-proofed, whilst mitigating an increase in costs as your electrical capacity requirements grow
- ✓ Ensure that your distribution network is designed with resilience and reliability, ensuring security of supply for your operations

- ✓ Ensure that your distribution network is designed to interface with other electrical networks (such as a Distribution Network Operator)
- ✓ Design your electrical distribution network so that your assets can be cost-effectively maintained
- ✓ Design your electrical distribution network to maximise service life and reduce whole-life cost
- ✓ Design your electrical distribution network to optimise your project delivery programme for other assets.

What is electrical network modelling and planning?

Electrical network modelling and planning is the simulation and analysis of a power distribution network using specialist power system modelling software tools.

Such studies may be started from either a blank page to create a new network model or built on to a model of an existing network.

Once a model is created, a number of simulations can be run to check the network or propose for expansion.

These include:

- ✓ Capacity of the network
- ✓ Electrical characteristics, such as fault levels and power quality levels
- ✓ The resilience or reliability of the network.



We will assess network reliability and resilience and work with you to ensure your path to net zero is future-proofed.

Contact details



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