



Relay Protection Coordination study

The Challenge

Reliability and safety are the two most crucial issues in electrical power systems. Complex processes and utilities are increasingly dependent on reliable electricity provision, and any interruption can lead rapidly to major commercial losses or dangerous situations for society and our environment.

Interruptions or faults in an electrical power supply need to be detected and isolated quickly and accurately to limit or prevent damage to the supply, reduce arc flashes and restore power as soon as possible.

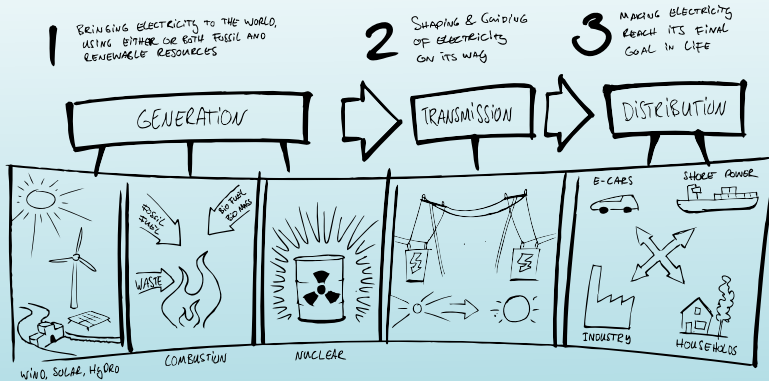
Protection relays are usually integral to a project, but the protection of the electrical power supply as a separate system can easily be overlooked. This means faults may not be detected and isolated as they should be, potentially threatening your power supply and adversely affecting society and the environment.

Our solution

With our knowledge of electrical power behaviour and the coordination of various protection relays, Royal HaskoningDHV's experts analyse your electrical power systems, advise on protection relays coordination and interpret faults that have occurred.

We deliver detailed and reliable data on the performance and capabilities of your electrical power systems through our methodical approach to gathering first hand field information and settings, and their implementation into load flow and short circuit simulation software.

Based on these simulations, the protection coordination study will enable us to derive new settings, which can be used immediately to improve reliability, or perform an arc flash study to limit and/or prevent hazardous situations.



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Our experts, including electrical power engineers, specialists, consultants and project managers, all have considerable experience in a number of diverse fields. Together we operate in many different industry sectors, working on electrical power projects and delivering quality advice and operational support.

- We have expertise in the total supply chain of electrical power, from generation to transmission and distribution
- We support our clients with basic engineering, tender assistance, project management, operational support, fault analysis, acceptance testing and commissioning

Client and scope of services

Royal HaskoningDHV is a leading independent, international project management and engineering consultancy service provider. Working on behalf of our public and private sector clients, we deliver a wide range of multidisciplinary services for aviation, buildings, industry, energy and mining, maritime, infrastructure, planning and transport, and water.

With our renowned experience and expertise in all areas of electrical power, Royal HaskoningDHV provides services which exceed our client's expectations and help them achieve their vision.

The outcome

Working closely with our clients we deliver:

- Strategic site visits and feasibility studies
- Cost estimates and due diligences
- Basic design of electrical power systems
- Basic design of emergency power systems
- Preparation of tender documents and specifications, tender support and evaluation
- Technical assistance during design and construction
- Modelling electrical power systems
- Complex relay protection coordination studies
- Arc flash studies according to US and European standards
- Fault analysis and calamity service
- Safety and compliance analysis
- Innovation

For more information please contact our experts:

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