



Innovative solutions

Royal HaskoningDHV delivers specialist design and consultancy services for major coastal and inland maritime projects in the UK, Europe and across the world.

Our electrical engineering team work closely with clients to meet project objectives, achieve the most cost effective solution and deliver added value wherever possible. We provide technical expertise for the whole life cycle and aim to build long term working relationships through the mutual exchange of knowledge and experience.

We provide innovative solutions to projects and activities within the following sectors:

- Container terminals
- Passenger and vehicle terminals
- Liquid bulk terminals
- Dry bulk terminals
- Naval base and defence facilities
- Shipbuilding/ship repair yards and dry dock facilities
- Moveable bridges, dock and lock gates, weirs, sluices, dams and pumping stations
- Power generation and distribution for industrial installations

Our design and specification service for high and low voltage electrical engineering includes large industrial power distribution systems up to 33kV. We also provide services for the selection of distribution arrangements, switchgear and the production of single line diagrams, layouts, cable routing and the detailed design of substations.

Our experts undertake feasibility studies, preliminary and master planning, power capacity and demand assessments and network studies and analysis. Our services also cover studies in electrical distribution arrangements, including the configuration of networks, to ensure security of electrical system supplies, cabling networks, electrical protection systems, earthing arrangements, substation design and layouts.

We are highly experienced in the design of external lighting systems, lightning protection systems, security and communication systems, ATEX classifications, electrical building services, traffic control and motor starter drive systems.

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We have considerable experience of carrying out environmental impact assessments for various external lighting schemes, and in conducting studies, negotiations and audits of proposals for revised and new connections to the public electricity supply. We also undertake energy efficiency surveys and site service investigations for cable and ducting management, fire detection and alarm systems.

Our experts deliver surveys for UPS systems, 50Hz/60Hz power system conversion, ATEX and hazardous area electrical systems as well as dockside power supplies and cold ironing.

We use the following professional software:

- SKM Powertools
- IPSA
- Amtech
- Dehn Lightning protection software

Our considerable knowledge of UK, European and international machinery safety legislation and design standards enables us to prepare designs and specifications.

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**Royal
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Enhancing Society Together