CONSULTANCY SERVICES WITHIN POWER TRANSMISSION

A reliable supply of electricity is a precondition to ensuring industrial competitiveness and to upholding modern society. In the future, the production of electricity will be based on investments in renewable energy.

The worldwide recognition of the need to focus on our environment, and the emerging shift in consumer preferences and awareness, requires national as well as regional infrastructural development to meet future demands.

The ongoing market transition towards renewable energy will require intelligent solutions, implemented at all levels from production all the way to the consumer.

The Ramboll approach

We have many years of experience within all sectors of industry, power generation, power distribution and transmission, infrastructure, towers, civil works etc.

We understand our clients’ needs and are able to supply solutions beyond the scope of high voltage equipment. Utilizing these competencies, Ramboll can offer consulting services related to wind power, urban development, transport & infrastructure, grid connection, power generating plants or refurbishment/green-field power transmission projects. Within power transmission, our competent team can provide consulting services that are independent of suppliers.

In a close collaboration with our clients, we design and procure all components with the aim to achieve the optimal technical design at the lowest possible cost.

We carry out Environmental Impact Assessments (EIA) and Social Impact Assessments (SIA) for international, regional and local clients, financial institutions, private companies and public authorities.

Offshore substations

Based on more than 25 years of experience in the offshore sector we...
provide solutions covering all aspects of substation design:
- Structural design
- 3D modelling
- Electrical design & simulation
- SCADA and control systems
- Communication and site supervision

Onshore substations
We can deliver turnkey projects working as the Owner’s Engineer. Our comprehensive experience as engineering consultants for operators enables us to deliver tailor made solutions comprising:
- Civil works and
- Steel structures
- Electrical design
- SCADA and control systems

Overhead lines
Overhead transmission lines are vital for the ability to meet the demands for flexible energy grid and the quality of power supply. Our experience covers structural as well as electrical design:
- Route planning
- Geotechnical investigations
- Tower & foundation design
- Lifetime extension

HV cables
HV cables are considered to be one of the safest and most reliable means of transferring electricity. We have competences for both onshore and offshore cable projects including:
- Mapping of seabed surface
- Detecting magnetic objects
- Cable tracking
- Dimensioning of cables

Electrical system studies
System studies enable the client to understand current and future problems within the electrical system. We offer calculations, studies and analyses such as:
- Electrical simulations
- Voltage quality measurements and analyses

WHY CHOOSE RAMBOLL FOR YOUR PROJECT?

At Ramboll we uphold a professional project execution through all phases of the project.

We offer a proactive interface handling based on knowledge and experience from multiple engineering capacities and address the challenges of utilizing continuously evolving technology.

We do our best to minimize any impact on local communities or sensitive nature districts and respect the environmental and social impact when choosing the tower design or planning a new route.
CONTACT

John Ammentorp
Service Line Manager, Power transmission
jona@ramboll.com
+45 51616380

UK
Nick Randles
Dept. Director UK, Power transmission
Nick.randles@ramboll.co.uk
+44 (0) 7425 632 347

Sweden
Stefan Jansson
Head of dept. Sweden, Power transmission
Stefan.Jansson@ramboll.com
+46 (70) 3534865