CONSULTANCY SERVICES WITHIN HYDRO POWER

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, require national 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 hydro power, dams power distribution, infrastructure, civil works etc. We understand our clients’ needs and are able to supply solutions beyond the scope. Utilising these competencies, Ramboll can offer consulting services related to hydro power, dams, power transmission, civil works etc.

Within hydro power, our competent team can provide consulting services that are independent of suppliers.

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

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

Hydro power plants
Based on more than 20 years of experience in the hydro power sector, we provide solutions covering all aspect of hydro power:

- Electric control systems
- Turbine
- Generator
- Gates
- Project management

Dams
Within dams we provide solutions covering all aspects of:

- Electric control systems
- Gates
- Dam inspections
- Embankment dams
- Concrete constructions
- Project management
- Rock inspection

HYDRO POWER

In some countries, hydro power accounts for almost half of the electricity production. In Sweden for instance 45% of electricity is hydro power, which makes it the single largest renewable energy source in Sweden.

The ongoing transition towards renewable energy such as solar and wind power puts great demands on a well-functioning and balancing power supply. In this context, hydro power is the most important part of the system.

Rambolls’ services
Ramboll typically provides support and consultancy services ranging from EPC level (Owner’s Engineer) to selected engineering tasks. Our clients include utility companies and hydro power plant owners. We have expert competencies within infrastructure & transport, urban development, wind energy sector, power distribution, hydro power etc.

- Prestudy
  - Due diligence
  - Inspections
  - Remotes
  - EIS assessment
  - Project plan

- Test & commissioning
  - Factory acceptance tests
  - Site acceptance tests
  - Follow-up

- Design
  - Technical documentation
  - Tender documents
  - Project planning

- Manufacturing & construction
  - Inspections
  - Project management

- Maintenance
  - Rock inspection and proposal for action
  - Dam inspection
  - Concrete inspection

Why choose Ramboll for your project?
At Ramboll we uphold a professional project execution though all phases of the project.
At Ramboll we offer a proactive interface handling based on knowledge and experience from multiple engineering capabilities.
At Ramboll we do our best to minimise any impact on local communities or sensitive nature.
At Ramboll we respect the environmental and social impact when choosing the design.

Selected project references
- Midskog Hydro Power Plant, Vattenfall, Sweden
  - Project management at renewal of turbine, electric control system.
- Stadsforsen Hydro Power Plant, Vattenfall, Sweden
  - Project management and purchase for dam safety actions, mechanical, electric control system.
- Hydro Power Plant, Sorgenia, Italy
  - Due diligence of 16 hydro power plants.
- Jälkens Dam, Bolden, Sweden
  - Projection of dam safety actions.
- Edensforsen, E.ON, Sweden
  - Dimensioning of armor protection for toe of dam.
- Landissjen, Vattenregleringsföretagen, Sweden
  - Dam safety inspection.

Why choose Ramboll for Hydro Power in Ramboll?
Number of specialists: 40
Annual turnover: €4.3 million

Contact
Tomas Eriksson
Ramboll Energy
AO-Manager HYDRO POWER
tomas.eriksson@ramboll.com
Tel: +46 (70) 529 83 52

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