ABOUT MULTICONSULT

Multiconsult is one of Norway's leading engineering consulting companies. With more than 2,100 highly skilled members of staff and 30 offices, Multiconsult is able to provide a range of services including multidisciplinary consulting and design, project engineering and management, verification, inspection, supervision and architecture – both in Norway and internationally..

Multiconsult is affiliated to the Federation of Consulting Engineers – FIDIC through its membership in the Norwegian Association for Consulting Engineers (RIF).

Multiconsult´s business areas include
- Buildings & Properties
- Industry
- Oil & Gas
- Transportation
- Renewable Energy
- Environment & Society
- City & Society
- Water & Environment

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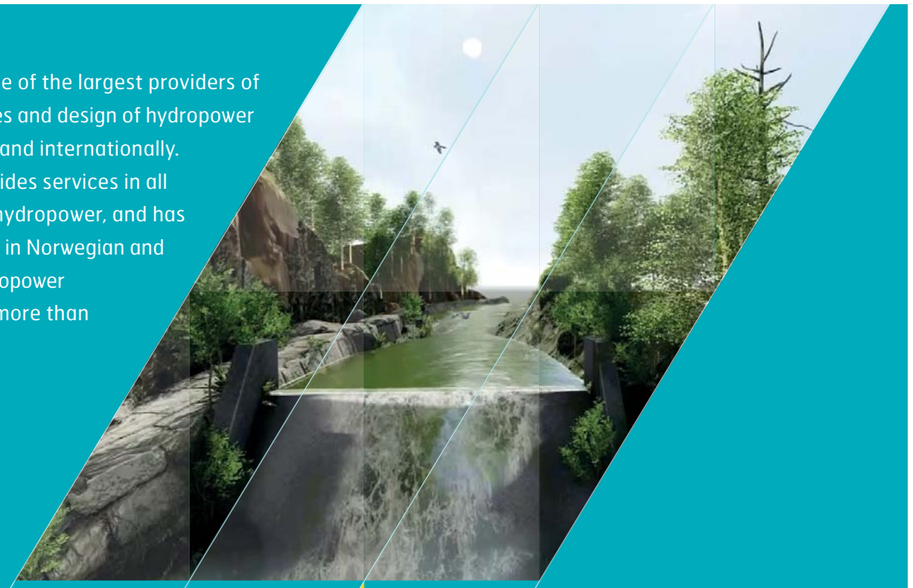
Multiconsult

Renewable Energy – Hydropower – ver. 01.02.2017

HYDROPOWER

RENEWABLE ENERGY

Multiconsult is one of the largest providers of consulting services and design of hydropower plants in Norway and internationally. Multiconsult provides services in all areas related to hydropower, and has been a key player in Norwegian and international hydropower development for more than 100 years.



Multiconsult

ENERGY

HYDROPOWER

Multiconsult offer consultancy services within renewable energy and environment and is recognized as a world leading consulting company in planning and developing hydroelectric power plants and dams.

With a staff resource of more than 200 experts in Norway and the UK dedicated to hydropower, Multiconsult is able to offer all the disciplines required to identify, study, plan, design, manage and supervise the implementation of hydro projects anywhere in the world. The company covers all types of schemes from mini hydro through to major schemes of several thousand megawatts.

Multiconsult is among the world leading competence centers in underground engineering and 3D-modelling and visualization of hydropower schemes. Our experience is built up through a century of hydropower development in Norway, and we pride ourselves with our multidisciplinary approach to hydropower development to ensure sustainable implementation.

OBJECTS

- Small hydropower plants
- Large hydropower plants
- Concrete and masonry dams
- Embankment dams
- Gates, valves and penstocks
- Turbines and generators
- Underground constructions
- Control and utility system

PROJECT PHASES

- Identification of potential projects
- Enviromental and social impact assestments
- Feasibility studies
- Tender documents and contracts
- Detail design
- Construction
- Operation and maintenance

KEY REFERENCES

- Upped Paddas hydropower plant (Malaysia)
- Skarg hydropower plant/ Sarvfossen dam (Norway)
- Mt. Coffee hydropower plant (Liberia),
- Neelum Jhelum hydropower plant (Pakistan)
- Smibelg og Storåvatn hydropower plant (Norway)
- Kamuzu Barrage (Malawi)
- Alto Maipo hydropower plant (Chile)
- Mistri Khola hydropower plant (Nepal)

SERVICES

- Detail design
- Environmental and social impact assessment
- Dam-break analysis and emergency preparedness plans
- Generation estimations
- Field hydrology and measurements
- Geology, rock and soil mechanics
- Construction Supervision
- Owner's Engineer services
- 3D-modelling and visualization
- Sediment handling systems
- Risk assessments
- Due diligence
- Economics and power system planning
- Project financing and financial analysis
- Energy sector policy and strategy
- Utility restructuring and training
- Institutional development
- Power transmission and distribution

DISCIPLINES

- Structural and Civil Engineering
- Geotechnical Engineering
- Engineering geology
- Mechanical Engineering
- Electrical Engineering
- Hydrology
- Hydraulics
- Hydrometrics
- Landscape Architecture
- Environmental management and assement
- HSE management
- Construction supervision
- Project management
- Engineering management