

BREIVIKELVA, NORWAY

Additional power for Northern Norway

At the beginning of 2019, ANDRITZ Hydro was awarded a contract for the development of the Breivikelva hydropower plant in the Beiarn municipality in Norway.

The contract is a "from water-to-wire" complete solution and includes a vertical Pelton generating unit with 9.9 MW capacity, generator, automation, electrical power system, transformer, main inlet valve, inlet pipes and auxiliaries.

TECHNICAL DETAILS

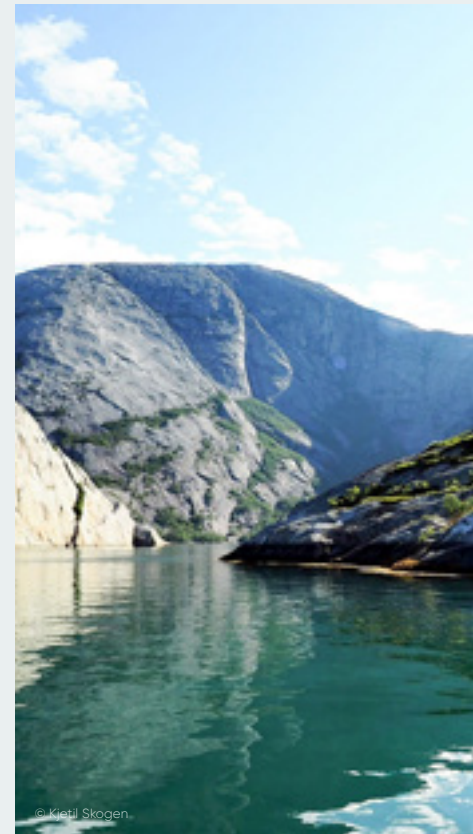
Total output: 10.3 MW
Scope: 1 × 10.3 MW
Head: 269.9 m
Speed: 500 rpm
Runner diameter: 1,340 mm

After completion of Breivikelva in 2021, it will provide an additional 27 GWh of renewable energy per year to the Norwegian grid. This corresponds to the electricity consumption of about 1,360 households.

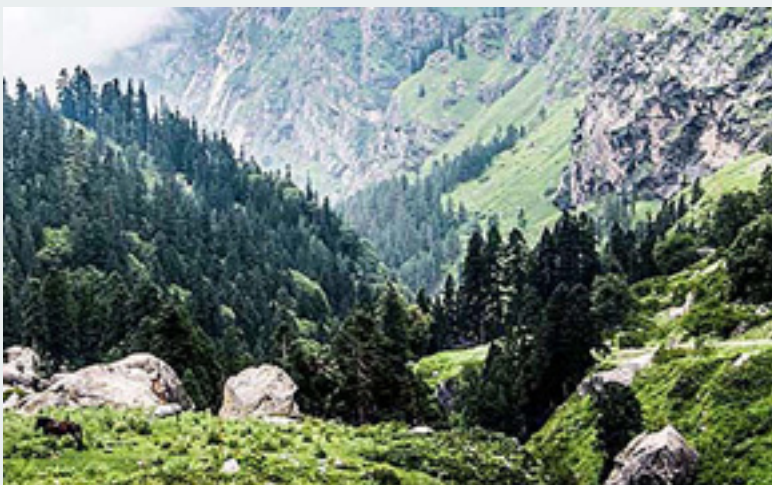
The owner is Salten Kraftsamband AS (SKS), a private limited company owned by municipal authorities in the county of Nordland, together with the energy companies Bodø Energi AS and Jämtkraft AB (SWE). Stein Mørtzell, CEO of SKS Produksjon AS, states that the power development is positive for SKS and is in line with their strategy for increased production of hydropower. The project is also a good case for the Beiarn municipality with regard to local effects and the activity the project will bring.

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SELTİ MUSRANG, INDIA

Benchmark project for Compact Hydro

ANDRITZ Hydro has received an order for the small run-of-river hydropower plant Selti Musrang on the river Bhaba Khad in Himachal Pradesh from the private developer Ramesh Hydro Private Limited.

The scheme envisages a diversion of the Bhaba Khad inflow through a conveyance channel/tunnel to a surface desilting tank

via a crested-type diversion weir. This flow will subsequently pass through a power tunnel and up to an underground forebay where it leads to an underground powerhouse through a surface penstock. It will feed three horizontal Francis turbines driving generating units rated at 8,000 kW each.

ANDRITZ Hydro's scope of supply is a complete "from water-to-wire" solution including turbines, generators, balance of

TECHNICAL DETAILS

Total output: 24 MW
Scope: 3 × 8 MW
Head: 219 m
Runner diameter: 740 mm

mechanical package, balance of electrical package and the entire automation system of the hydropower plant. Our team has elaborated a complex package and good cooperation with the customer during the development phase made this project a benchmark for Compact Hydro. ANDRITZ Hydro has again proved itself the market leader by offering the best technical solution for this project.

The duration for the completion of the project is 24 months from the commencement date starting June 2019.

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