

# Safe, reliable cloud services need electricity 24/7

## Hydro66, Boden



Hydro66 offers a range of services via its data center in Boden.

**Hydro66 in Boden offers a range of cloud and colocation services for safe IT operation. The company chose Boden for its data center due to the availability of hydropower, a perfect climate for cooling the servers, and natural power grid redundancy. In addition to safe operation, the company's highest priority is sustainability. Hydro66 is proud to be completely fossil free and aims to be among the leaders in terms of environmental awareness.**

Server halls consume large amounts of electricity because the computer equipment converts most of the energy into heat, which must be dissipated by cooling. The concept PUE ratio (Power User Effectiveness) is used as a measure of how environmentally friendly such an operation is; within the EU the average PUE ratio is 1.4–1.7. Through focused efforts Hydro66 has brought its ratio down to 1.07, which is a very good result.

Harju Elekter was already delivering electricity distribution equipment to Hydro66 in 2018.

During autumn 2021 Harju Elekter was again chosen to deliver equipment to Hydro66, this time for three new server halls. The scope of supply included technical shelters, GIS medium voltage switchgear, 3 400 kVA transformers, 5 000 A low voltage switchgear, and battery cabinets. The contract also covered project management, design, engineering, civil works, and installation support.



Technical shelter with medium voltage switchgear and battery equipment from Harju Elekter. Distribution from Boden Energi can be seen in the background.



Medium voltage switchgear, 22 kV.



One of three transformer rooms, with two transformers and their low voltage switchgear supplying electricity for ventilation and operating the servers.