

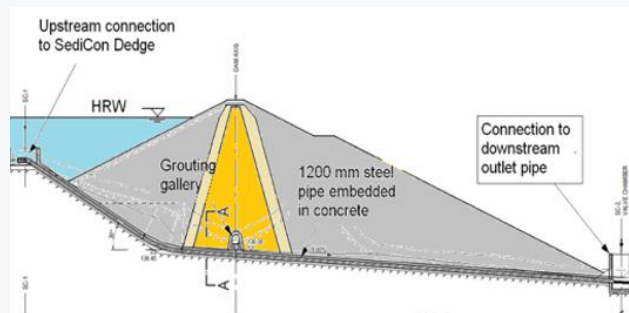
HydroSuction Dredge Infrastructure

Banja Hydropower Plant, Albania

Challenge

Banja is a 70 MW hydropower plant on the Devoll River in Albania. The river carries millions of tons of sediment annually due to highly weathered rock formations throughout the catchment.

Without provisions for future sediment removal, long-term reservoir storage and intake performance could be compromised.



Integrated casing pipe beneath the dam for future dredging



Reservoir connection for future SediCon HydroSuction Dredge

Solution

SediCon designed and supplied the outlet infrastructure for a future HydroSuction dredging system capable of operating at water depths of up to 80 m. A 1200 mm casing pipe was integrated beneath the dam together with a 560 mm HDPE outlet pipe, providing inspection access and future connection of a SediCon HydroSuction Dredge.

The system was incorporated as a permanent part of the dam design, enabling future sediment removal without major structural modifications and ensuring long-term flexibility for reservoir sediment management.



Project Location

Project facts

Client: Devoll Hydropower Sh.A.
Project: Banja HPP
Location: Albania
Technology: HydroSuction Dredge
Installed capacity: 70 MW
Annual production: 250 GWh
Reservoir storage: 390 million m³
Maximum dredging depth: 80 m

Results and benefits

- Future-ready dredging infrastructure
- Dredging depth up to 80 m
- Designed for future inspection
- No major future modifications required
- Integrated into dam construction
- Supports long-term reservoir operation

For more than 30 years, SediCon has developed and supplied proprietary sediment handling technologies from Trondheim, Norway. Our solutions for reservoirs, intakes, desanders and tunnels have been successfully implemented in hydropower projects in more than 20 countries across five continents.