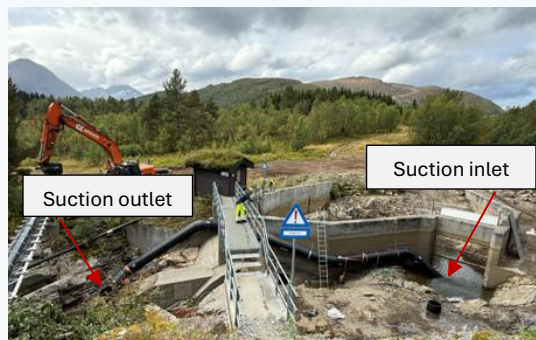


Sediment Excluder

Furset Small Hydro, Norway

Challenge

The Furset intake is exposed to large volumes of gravel, stones and debris transported during flood events. Sediment accumulation in the intake pond required frequent drawdowns and mechanical excavation, resulting in operational challenges and increased maintenance costs



Installation of Sediment Excluder – suction inlet to the right



Sediment Excluder operating during flood conditions, September 2025

Solution

SediCon designed, supplied and installed a custom 630 mm Sediment Excluder for the Furset intake. The system automatically removes gravel, debris and boulders up to 530 mm during flood events, when sediment transport is highest and surplus water is available.

By utilizing natural flood conditions, the intake remains clear without drawdown, excavation or interruption of power production. The Sediment Excluder requires no external power, contains no moving parts and operates entirely without operator intervention.



Project Location

Project facts

Client: Tussa Energi AS
Project: Furset Small Hydro
Location: Stranda, Norway
HPP commissioned: 2007
Technology: Sediment Excluder
Installed capacity: 5 MW

Results and benefits

- Automatic flood operation
- No loss of production water
- Removes sediments up to 530 mm
- No moving parts - Minimal maintenance
- No operator intervention
- No production interruptions

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.