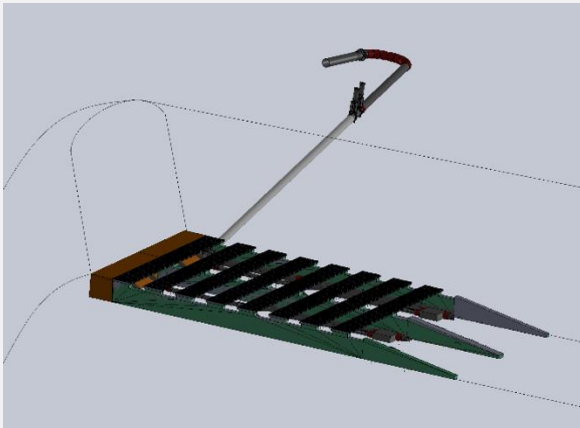


SediCon Sluicers for Tunnel Desander and Tonstad HPP

A SediCon Sluicer removes sediments from the tunnel desander at Tonstad HPP. A grating covering the sluicer prevents large stones and debris from affecting the sluicer system.



Downstream part of the desander where the chambers with 4 SediCon Sluicers are installed. The common outlet pipe passes through 32 m of rock before discharging in dedicated settling basin.

Project Description:	Tonstad HPP is Norway's most-producing power plant with 860 MW installed capacity and an annual power production of 3,8 TWh.
Location:	Part of the Sira-Kvina Scheme in Sirdal, South-western Norway.
Client	Sira Kvina Kraftselskap AS, Norway
Sediment Challenge:	The 180 m long, 11 m wide desander collects sand and gravel but much of the sand is believed to re-suspended and passing the turbines. Until now, sediments have been mechanically removed from a dewatered desander which is costly and in practice only done when power production can be stopped for other reasons.
Solution:	Eight SediCon Sluicers in specially designed chambers covered with slabs as well as coarse grating which prevents larger stones and debris from interrupting the Sluicers. The stainless-steel grating is also design for traffic. The SediCon Sluicers discharges through an embedded steel pipe through the rock into settling basins outside the desander. SediCon has supplied design of chambers as well as design and supply of steel grating, SediCon sluicers, embedded hardox pipe, pipes for grouting and monitoring and outlet structure.
Implementation:	The SediCon Sluicers was installed during scheduled maintenance of the powerplant and has been in operation since SAT was successfully completed, May 2025.

SediCon is the leading supplier of sediment handling worldwide and provides reliable solutions with low water consumption and uninterrupted power production.