

## SEDICON COMPETENCE & CONSULTANCY

**SediCon has a broad knowledge of sediments and hydraulics, an unmatched pool of sediment handling experience and cooperation with universities and research organizations.**



Scale model of the Sluicer in cooperation with CFE, Mexico



Hydropower&Dams Conference, Montreux, 2016

SediCon can provide our clients with assessment of sediment problems and provide design solutions which ensures cost effective and sustainable solutions for Hydropower plants.

### **Sedimentation studies**

Through field studies, desk studies and comparison with existing data SediCon can assess the sediment yield in the catchment area and the nature of sediments carried with the rivers.

### **Sediment analysis**

SediCon have developed a drop core sampler, capable of retrieving core samples of sediments from reservoirs of any depth. By measuring depth, density of sediment deposits, grain size distribution and shear strength SediCon can give an up-to-date picture of the sediment situation in any reservoir.

### **Sediment removal studies**

New or existing reservoir, reservoir size and shape, sediment volume and properties are all important factors when sediment removal is studied. SediCon's aim is at all times to find the solution(s) that give the owner the best benefit/cost ratio, combined with sustainable reservoir operation.

### **Desilting basin optimization**

Based on amount and type of sediments, together with turbine characteristics SediCon can find the golden middle way with SediCon's unique model for settling basin optimization. Substantial savings are possible by optimizing the settling basin size; too small will cause excessive cost due to turbine wear, too large will cause overinvestment.

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