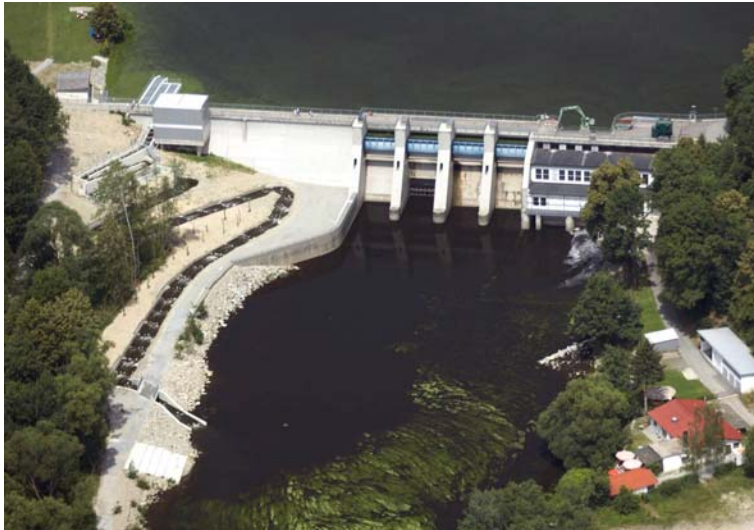


Passau

Fish Ladder Oberilzmühle Power Station



Client

Wasserkraftwerke Passau
GmbH [Passau Water Works]

Wasserwirtschaftsamt Passau
[Water Management Board]

Period

2003 - 2007

Project Cost

1.100.000 €

Abstract

With the help of a fish ladder constructed for Oberilzmühle power station, the river of Ilz was again a continuous ecological passage from its confluence to the river of Danube to a length of almost 30 km. The fish ladder was established in a deeply cut vale as a technical slot passage in combination with a natural pool passage within the steep bank. Under different operating conditions and with a subsidence up to 3 m, the ecological passage was maintained even by water level fluctuations up to 2 m. The construction investigations were proceeded with cooperation of Crystal Geotechnique office and the environmental planning services with the help of Landschaft & Plan office in Passau.

Scope of Service

pre-design, design, approval design,
execution design, preparation of tender
documents, construction supervision, site
supervision
planning of structural framework
technical equipment

measurement
hydraulic calculation
safety and health protection

Technical Data

Passage Summer / Winter	270 to 330 l/s
At the entrance	> 100 l/s
Total fall head	13.1 m
Height difference of pools	15 cm
Slot passage fall head	7.2 m
Pool size	2.5 m x 1.6 m x 1.2 m
Number of pools	45
Pool passage fall head	5.9 m
Number of pools	36
Pool size	5.0 m x 2.5 m x 0.8