

# Pumped Storage Plant Kühtai Vibration Studies, EIA

Location	Austria, Tyrol
Client	TIWAG – Tiroler Wasserkraft AG
Project duration	03/2008 – 2012
Services of iC	Vibration Study for Environmental Impact Assessment (EIA)

## Project objectives

The pumped storage plant Kühtai is an extension of the existing power station group Sellrain-Silz by providing a second upper stage. Thus both utilisation efficiency and total performance coefficient of the power station group will be increased.

## Project data

Total output of two turbines: 130 MW  
 Power generation from natural inflow: 216 million kWh/year  
 Natural drainage basin: 7.6 km<sup>2</sup>  
 Drainage basin from collection tunnels: 60.7 km<sup>2</sup>  
 Usable volume, Kühtai basin: 31 million m<sup>3</sup>  
 Collection tunnels: 25.2 km/4.2 m diameter



## Project scope

A study on vibrations and secondary noise had to be performed as part of the Environmental Impact Assessment (EIA) outlining the project's effects during construction and operation.

## Project specifics

Project in alpine conditions with special requirements on monitoring techniques.

## Services by iC

Vibration measurements, prognoses, preparation of report, public relations work, responses to statements in the official approval procedures.



Measurements in the existing power house



Work at high altitude