

Fishcon lock Lippenannerl weir on the river Alm in Austria

The Fishcon lock was installed in the course of the revitalisation of the Lippenannerl diversion power plant parallel next to the newly built residual water screw turbine and overcomes a height difference of approx. 2 m. The system is operated with an attraction flow rate of 100 l/s, which results in a reduction of more than 50% compared to a conventional slot pass.

Facts:

- *Fish region: metarhithral*
- *Lead fish: river trout 50 cm*
- *Height difference: about 2 m*
- *Attraction flow rate: 100 l/s*
- *Water saving: 140 l/s compared to slot pass*
- *Fishcon lock: DN900 with throttle*



Monitoring:

In spring and autumn 2019, video monitoring was carried out by the University of Natural Resources and Life Sciences, Vienna to check the fish-ecological function at the site. **The Fishcon lock was rated as fully functional with the best rating according to Austrian guidelines.**

In addition to the total of 683 fish ascents, 305 fish descents were also documented in the study period of 104 days, despite a poor fish population of around 10 kg/ha in downstream water. The largest migrated fish was a river trout, 420 mm long. The largest fish when fishing was 370 mm in length. The migration of all fish species identified during fishing and monitoring could be verified.

