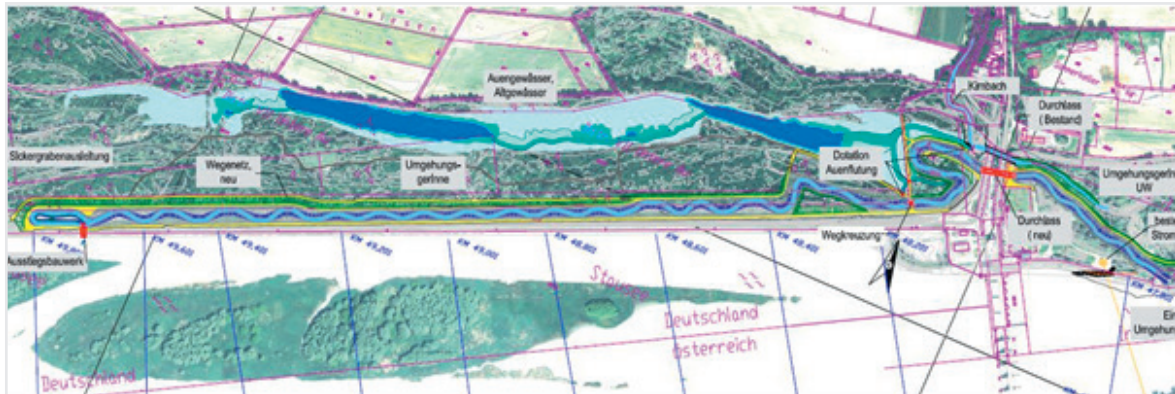


Fish pass at the Ering-Frauenstein power plant



Overview plan of the project region



Project region in the head pond of the Ering-Frauenstein power plant

Company	Water body	Water body number	River kilometre
Innwerk AG	Inn	305340007, 305340009	47.50–49.80

Aim of measure	Type of measure
Creation of ecological connectivity	Construction of a fish pass

Description of measure

A bypass water body will be constructed by the Ering-Frauenstein Inn power plant on the left bank of the lower Inn (border water body) on the German side that is ca. 2.6 km long. The dynamically fed bypass water body will be designed with a typical flowing water character on a filled ramp on the Ering dam. The bypass channel will be networked with the ox-bow waters and made passable for fish for revitalisation of the Ering floodplain.

The bypass water body will be divided into two sections:

- In section 1 above the culvert of the power plant access, the channel is formed on an embankment on the land-side of the dam bank of the existing reservoir dam.
- In section 2, the bypass water body is channelled to the floodplain level and below the culvert in the cut in the terrain and then directed to the Inn.

The asymmetric rough channel has a maximum slope of 4.7% on the long ramp in section 1 and 1.1% at the floodplain level. The channel overcomes a total height difference of ca. 10 m. 2000 l/s flow through the intake structure as the base residual flow, and a maximum of 12,000 l/s for flushing the Inn sediment. By building a new culvert below the power plant access, the existing brook and hence the flooding situation of the adjoining town remain unaffected.

Period of construction/implementation (without monitoring)

01.10.2017 to autumn 2019 (planned)

Financial expenditures

Total investment in €	€ 5,100,000.-
▪ Of which UFG funding	€ 0.-
(Expected) monitoring expense in €	not yet foreseeable
(Expected) operating expense in €/year	€ 30,000.-

Generation losses in MWh/year

2,200 MWh/year