



Lock Děčín



➔ Project location

Usti Region, Elbe, in close proximity to the port of Decin-Loubi, river km 730,0 - 747,5

➔ Investor

The Waterways Directorate of the Czech Republic, Nabrezi L. Svobody 1222/12, 110 15 Praha 1, www.rvccr.cz

Objective of the project

Securing navigation conditions for freight, passenger and leisure boating on the Elbe from the CZ/D border of the Czech Republic / Germany to the end of the lock Decin backwater in Decin – Boletice in accordance with the terms in the following German part of the Elbe in Magdeburg. These are the basic parameters of the fairway:

- ➔ Minimal draught of 140 cm for an average of 345 days a year.
- ➔ Achieving the draught of 220 cm for an average of 180 days a year.
- ➔ Removing of navigational strait in the designed section and compliance of width parameters of the fairway

The improvement of navigation conditions with complete flow revitalization as an integral part of the project is very unique.

Regulation of river channel from 19th century will be accompanied by softer banks. Conditions will be created to help to develop valuable habitats such as reducing the tendency of banks as well as adding the gravel there, creating ponds and lagoons or restoration of floodplain vegetation. Definitely there are measures that provide bi-directional migration of fish in accordance with the latest findings. The intent will not have any negative impact on the passage of floods because the difference between water levels (from 1 - year water level) in the weir completely disappear and will lead to a slight reduction in the level of flood levels in Decin.



Lock Děčín - visualisation



Lock Děčín - present status

Basic project parameters

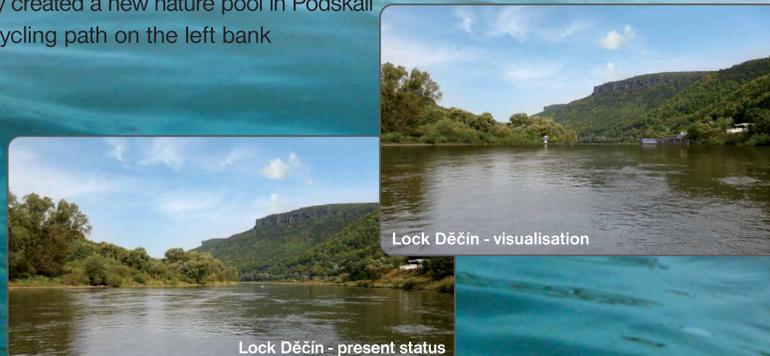
- ➔ Total length of modified section 17.5 km
- ➔ **Lock in river km 737.12 km, consisting of**
 - ✓ The lock chamber of 200 x 24 m, with the upper and lower approaches
 - ✓ Movable weir with 3 fields, the average difference in levels of 4.0 m (varies according to the flow in the river Elbe)
 - ✓ Fish ladders - on the right bank of the migration corridor with width of 30 m and length of 450 m + slotted corridor on the left bank of 2.0 m width
 - ✓ Hydroelectric power station - two turbines of power 7.9 MW, annual production of 47 GWh, fish-friendly turbines
- ➔ **Modification of river bed downstream the lock in the length of 5.7 km**
 - ✓ Stony groynes in the section of 2.8 km
 - ✓ Additional restoration measures on banks
- ➔ **Modification of river bed in weir basin in length of 8.4 km**
 - ✓ Revitalization measures in Prostřední Zleb, at the mouth of the river Ploučnice and Jilovský stream, in Rozbělesy and Křešice
 - ✓ There has already been successfully created a new nature pool in Podskali
 - ✓ Related relocation of utilities and cycling path on the left bank



Ploučnice river mouth area - present status



Děčín city centre - present status



Lock Děčín - visualisation

Lock Děčín - present status



Děčín city centre - visualisation



Lock Děčín - visualisation



Lock Děčín - present status



Project preparation is financed by the State Fund for Transport Infrastructure

On the water ecologically, cheap and troublefree

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