

Hydropower – Heavily Modified
Water Bodies – Good
Ecological Potential –
Measures

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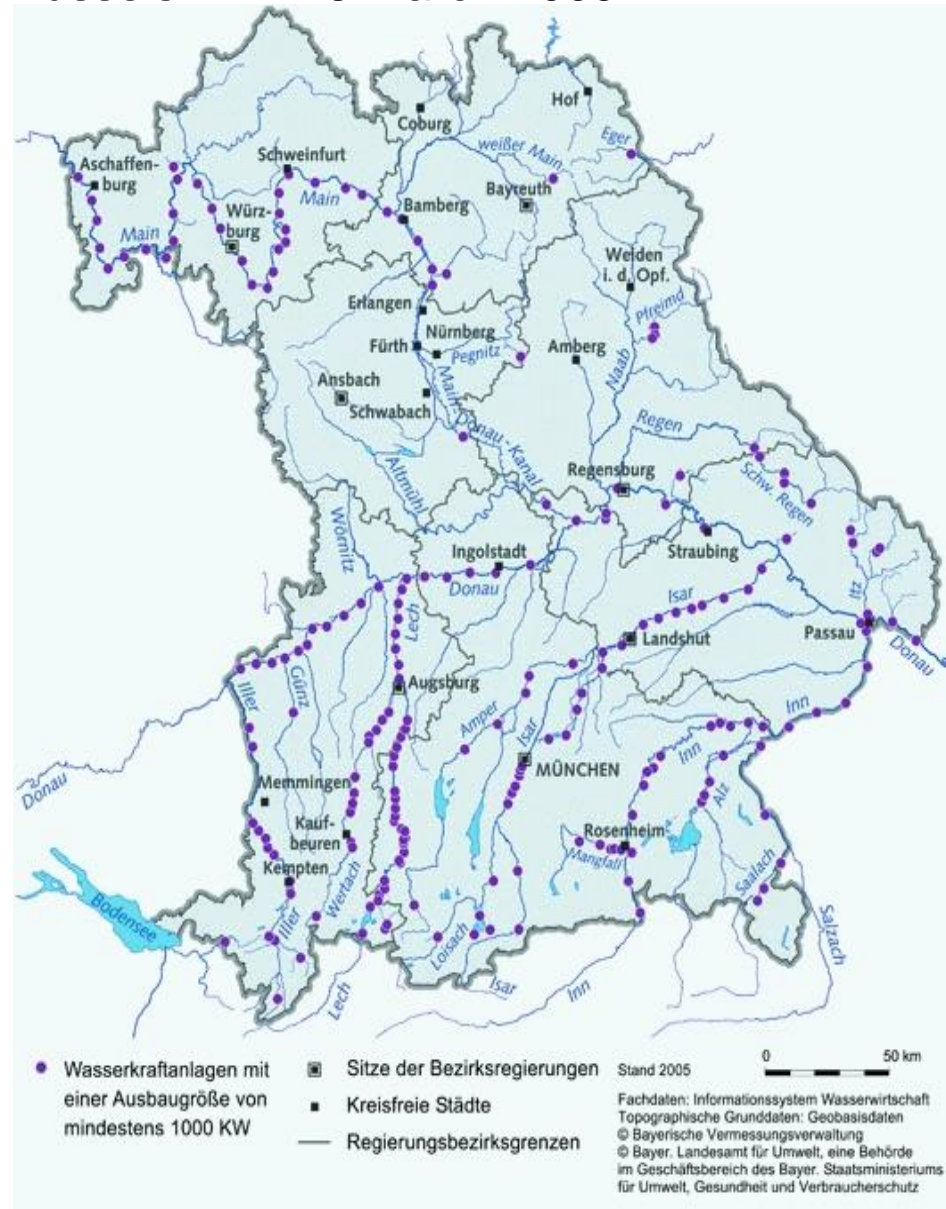
EEB Water Working Group - BUND
FoE Germany – Danube
Environmental Forum (DEF)

Hydropower and Biodiversity

Dams and water abstraction for power generation are threats for river and wetland biodiversity

Many species of fish, mussels, snails, crayfish, stoneflies, caddisflies, mosses, liverworts, floodplain plants are threatened

Bavaria
Germany
HP < 1MW
+ 4000
smaller HP



Hydropower – HMWB - Good Ecological Status/Potential

**Main WFD Objective: Good Status
for rivers**

**Prerequisite: Correct Water Body
delineation**

**Different solutions for smaller or
larger dams**

Hydropower – HMWB identification and designation

No “planned HMWBs”

**Other and better environmental
solutions – restoration option**

Examine restoration measures

**Verify HMWB option with biological
data (fish, macrozoobenthos)**

Hydropower – Good Potential - Objectives - Measures

In Rivers: No change of category!

River-Lake- Misunderstanding

**Use river continuity habitats and
species approach**

**River system sediment
management necessary**

Stop hydropeaking

Hydropower – Good Potential - Objectives - Measures

Functioning fish ladders

**Restoring spawning habitats for
rheophilic species (gravel)**

**No higher impoundments for
continuity measures**

**Enough and dynamic residual
water (German LAWA approach)**

Hydropower – Measures - River Basin Restoration Approach

**Reduce impact of hydropower
generation on entire river system**

**Restoration priorities from larger
rivers or important species
populations**

Legal and financial instruments

**Help salmons, sturgeons, eels to
survive!**

Water Framework Directive and Heavily Modified Water

Bodies – CIS Workshop Brussels 12 – 13 March 2009

Hydropower – Measures - River Basin Restoration Approach

Legal and financial instruments

Hydropower is a Water Service!

**Environmental costs
sedimentation, water quality,
biodiversity**

**German Renewable Energy Law
(EEG) no solution**

Hydropower – Measures - River Basin Restoration Approach

**What is possible? What is needed
from the river ecosystem
approach?**

**Find out Maximum Ecological
Potential!**

**Then better and “pragmatic”
solutions together with
environmental NGOs!**