

Dam removal in river Nianån and river Gnarpsån

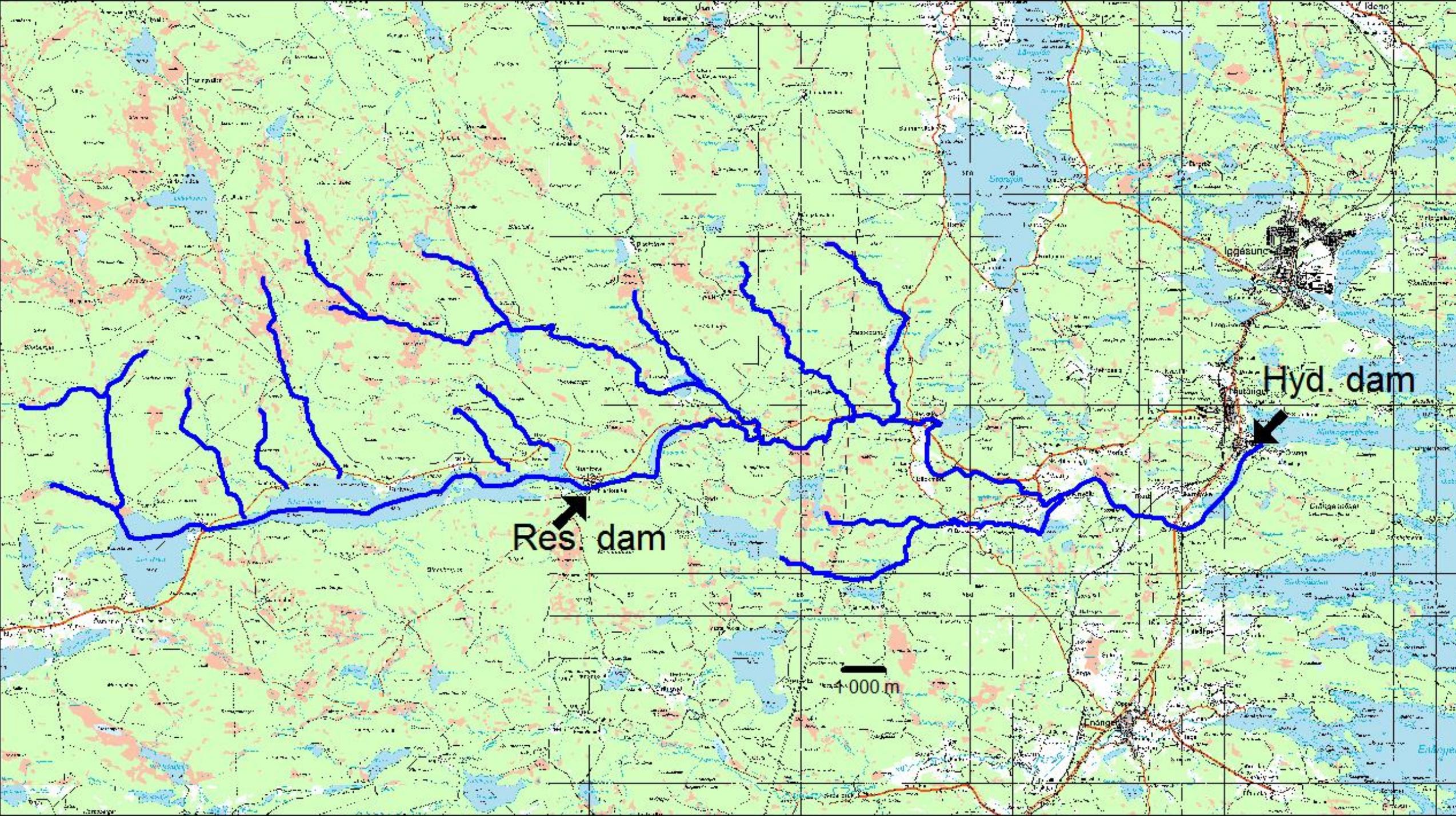




River Nianån

- Catchment area: 200 km²
- MQ: 1,9 m³/s
- Length incl. tributaries: 90 km
- Rep. area Brown trout: 181 400 m²
- Lakes: 41 (total area:14,1 km²)
- Dams: 2 (hydroelectric + reservoir)

- Brown trout (*Salmo trutta*)
- Lamprey (*Lampetra fluviatilis*),
- Freshwater pearl mussel (*Margaritifera margaritifera*)
- European eel (*Anguilla anguilla*)
- Whitefish (*Coregonus lavaretus*)



Res. dam

Hyd. dam

1000 m

Sofieholm

580 kW

2,2 GWh/year

18,5 m









Sjönacke

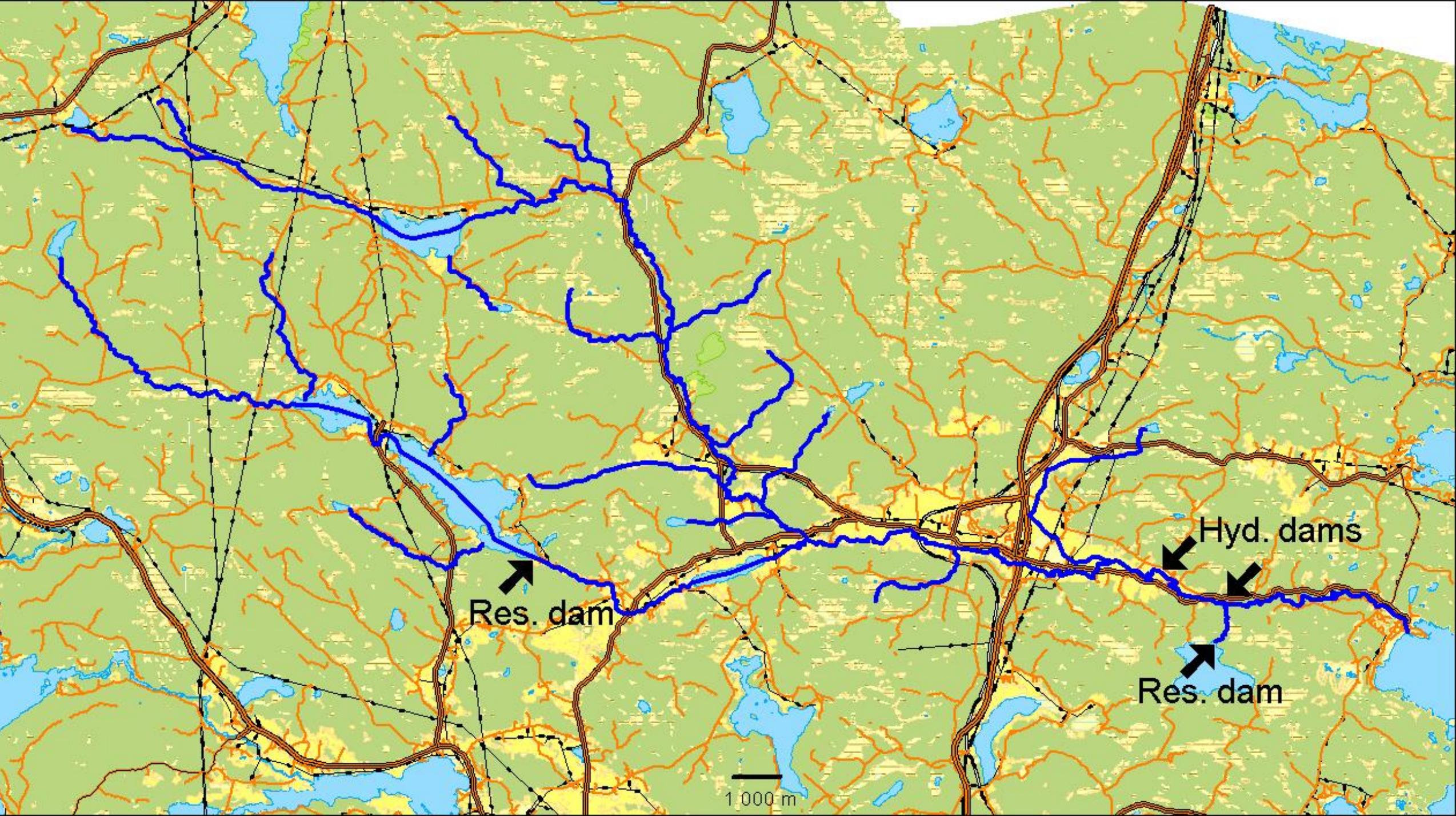
Sjösättning

Dammläge
utanför
bilden



River Gnarpsån

- Catchment area: 229 km²
 - MQ: 2,84 m³/s
 - Length incl. tributaries: 120 km
 - Rep. area Brown trout: 253 330 m²
 - Lakes: 28 (total area: 7,3 km²)
 - Dams: 4 (2 hydroelectric + 2 reservoir)
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- Brown trout (*Salmo trutta*)
 - Lamprey (*Lampetra fluviatilis*),
 - Freshwater pearl mussel (*Margaritifera margaritifera*)
 - Crayfish (*Astacus astacus*)
 - European eel (*Anguilla anguilla*)
 - Grayling (*Thymallus thymallus*)



Res. dam

Hyd. dams

Res. dam

1,000 m

Milsbro
120 kW
0,7 GWh/year
7 m





Gällsta
105 kW
0,6 GWh/year
5 m









Municipal restoration goals

- Biodiversity
- Flourishing lakes, streams and marine environments
- Local growth and jobs
- Improve quality of life

- River Gnarpån: Biotop protection area
- River Nianån: Nature reserve

- Study: Fish migration and other studies with KAU and SLU

Financing

Total cost: 21 milj. SEK ~ 2,4 million USD

- Hudiksvall Municipality
- Nordanstig Municipality
- Swedish Environmental Protection Agency
- Swedish Agency for Marine and Water Management
- Miljöfonden, Bra Miljövals el
- Sportfiskarna, Ge fan i våra vatten
- EMFF (European Maritime and Fisheries Fund)

