

First ever
Sea lamprey webinar

Towards modernized environmental requirements
for the production of hydropower

**Swedish Agency
for Marine and
Water Management**



Michael Diemer,; 2 April, 2021



- » c. 2,100 hydropower plants ...
- » producing an average year 67 terawatt-hours of energy ...
- » which represents 45% of the total energy production in Sweden ...
- » independent from sun and wind whenever needed (regulation power).
- » 203 plants above 10 MW provide 93% of the 65 TWh hydropower and almost all regulatory power.

- » Hydropower plants (and other obstacles) blocking migration routes ...
- » causing fast and unnatural fluctuations in the water regime ...
- » and in general transform river ecosystems into lake-like environments ...
- » are considered a main reason for the decline of migrating fish species





67 TWh,
regulatory
power

Classification within the Water Framework Directive: hydropower is the most extensive pressure on limnic ecosystems in Sweden. Almost 4,000 river water bodies and 1,000 lakes are affected.

EU-perspective

EC unveils hydropower green criteria, delays gas, nuclear

20 HOURS AGO

SIOBHAN HALL
Brussels

21 Apr 2021
16:32 CET

(Montel) The European Commission has set out the criteria for what makes hydropower a sustainable activity in a new EU green taxonomy published on Wednesday, while leaving decisions on gas and nuclear to later.

A National Plan to balance environmental goals and energy goals

- » Practically all hydropower plants, about 2,000, will have to apply for revised licenses.
- » The national plan is to be carried out over an operational period of 20 years, starting in February 2022.
- » A loss of more than 1.5 TWh production from hydropower is a benchmark for a significant impact on hydropower..
- » Environmental measures for a hydropower plant are decided individually by the environmental court in relationship to environmental conditions and the environmental legislation
- » The operator, environmental agencies, NGOs and other stakeholders can plea for environmental measures.
- » **Typically, the court will be assessing the need for fish passages (up- and downstream) and environmental flows in many hydropower plants in Sweden except the large-scale regulatory plants. Demolition of dams will be the exception.**

Guidelines for fauna passages etc.

[/ Vattenkraft och arbete i vatten](#) / [Vattenkraftverk och dammar](#) / [Miljö- och skyddsåtgärder](#) / Vägledning för fisk- och faunapassager

Vägledning för fisk- och faunapassager

Vägledningen för fisk- och faunapassager ska bidra till att underlätta arbetet med att anlägga passagelösningar vid dammar och vattenkraftverk. Den riktar sig till alla inblandade aktörer och har tagits fram av Havs- och vattenmyndigheten i samarbete med SLU.

[Utformning av passagelösningar >](#)

[Uppföljning >](#)

[Generellt om passagelösningar >](#)



Kontakt

Olivia Langhamer
Utredare
Miljöprövningsenheten
Tel: [010-6986217](tel:010-6986217)
[Skicka e-post till Olivia](#)



Thats it!