

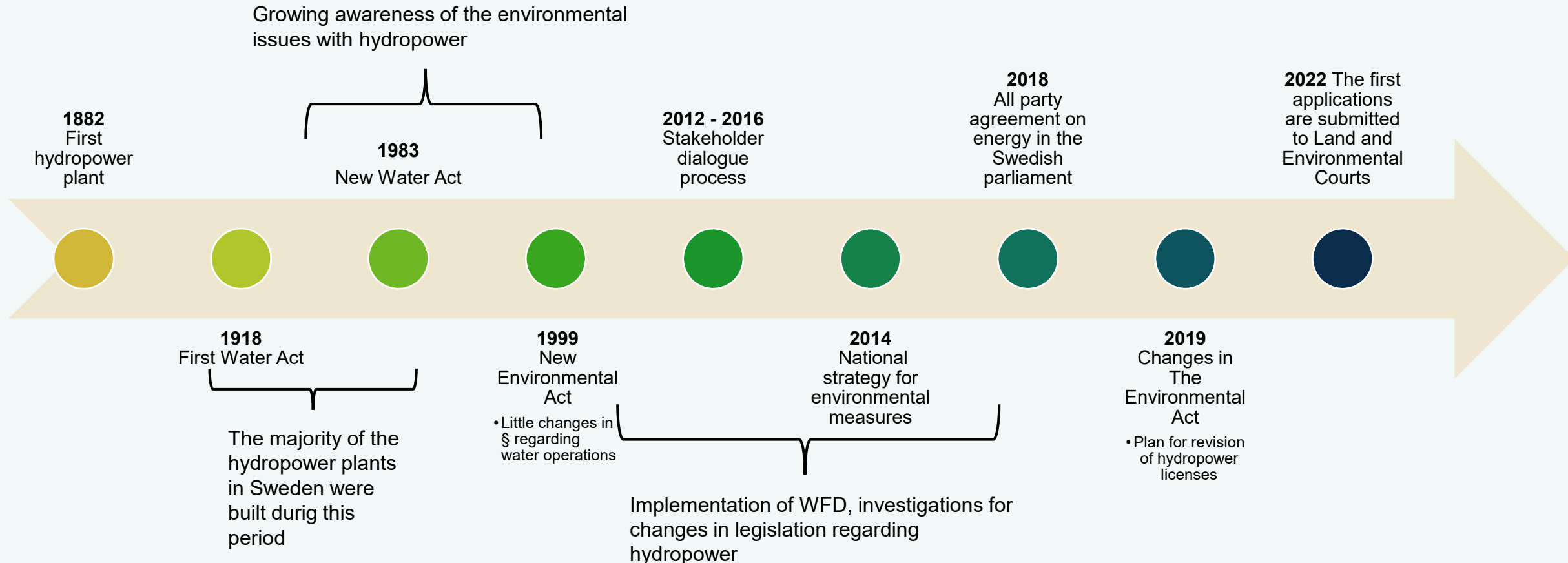
National Plan for revision of hydropower in Sweden

Swedish Agency
for Marine and
Water Management



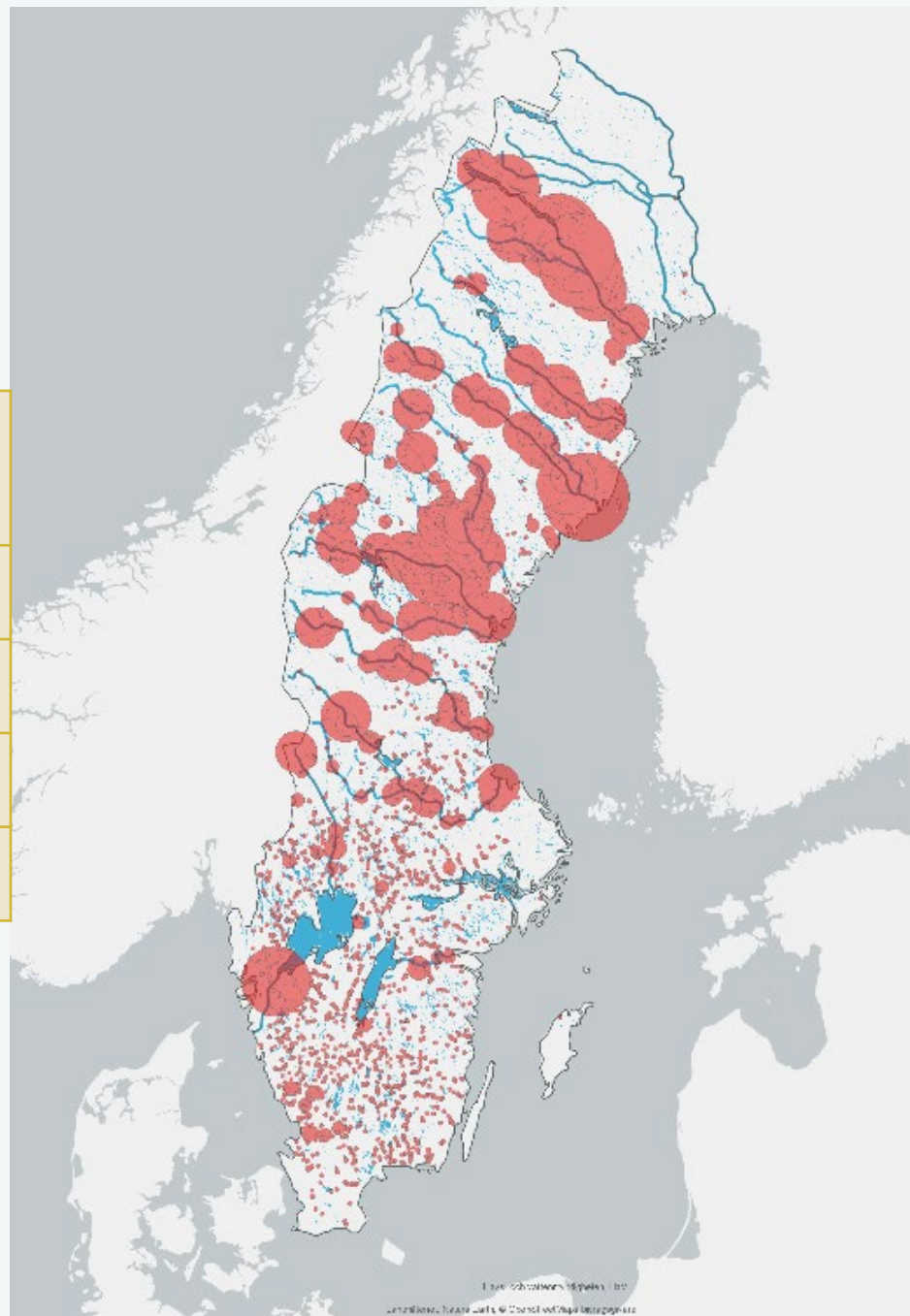
2023-06-13 Anders Skarstedt

Historical timeline for Swedish hydropower



Swedish hydropower

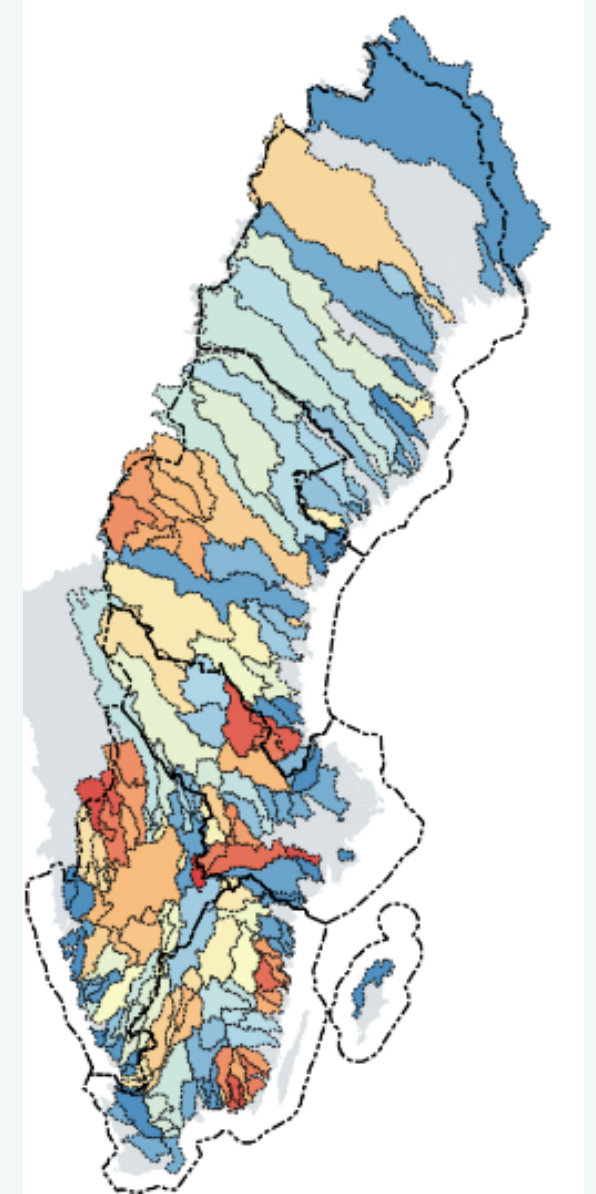
Installed effect	Percentage of total production	Number of plants
>10 MW	94 %	208
10-1,5 MW	3,9 %	187
1,5 MW till 125 kW	2,1 %	680
< 125 kW	0,5 %	1030



Swedish Agency
for Marine and
Water Management

National Plan for modern environmental measures

- » A part of the road to improve the ecological status in Swedish waters is the implementation of “modern environmental measures” in hydropower plants.
- » Almost all hydropower plants and linked regulatory dams, about 2500, will have to make an application for revision of their permits to Land and Environmental Courts.
- » In the “*National plan for modern environmental measures*”, the hydropower plants have been divided in different “Application groups” (about 200), with a specific date for their applications to the Court.
- » The National Plan is to be carried out over an operational period of 20 years, starting in February 2022.



National Plan for modern environmental measures

- » Guidance in the National Plan, when there can be a reason to declare a waterbody as heavily modified - according to WFD. 22 catchment areas that are the most important for regulatory power. Important to limit the loss of regulatory power.
- » The County administrative boards are responsible for a Collaboration process which involves operators, other authorities and NGOs.
- » The Collaboration process is a new "thing" in the legislation. There will be "run-in issues", for example syncing it with other ongoing processes. One of the other processes is the review of environmental quality standards by the Water Authorities.
- » The Court will assess the different pleas for measures in relationship to environmental conditions and the benefits of the production of hydroelectric power.



Where are we now – 2023?

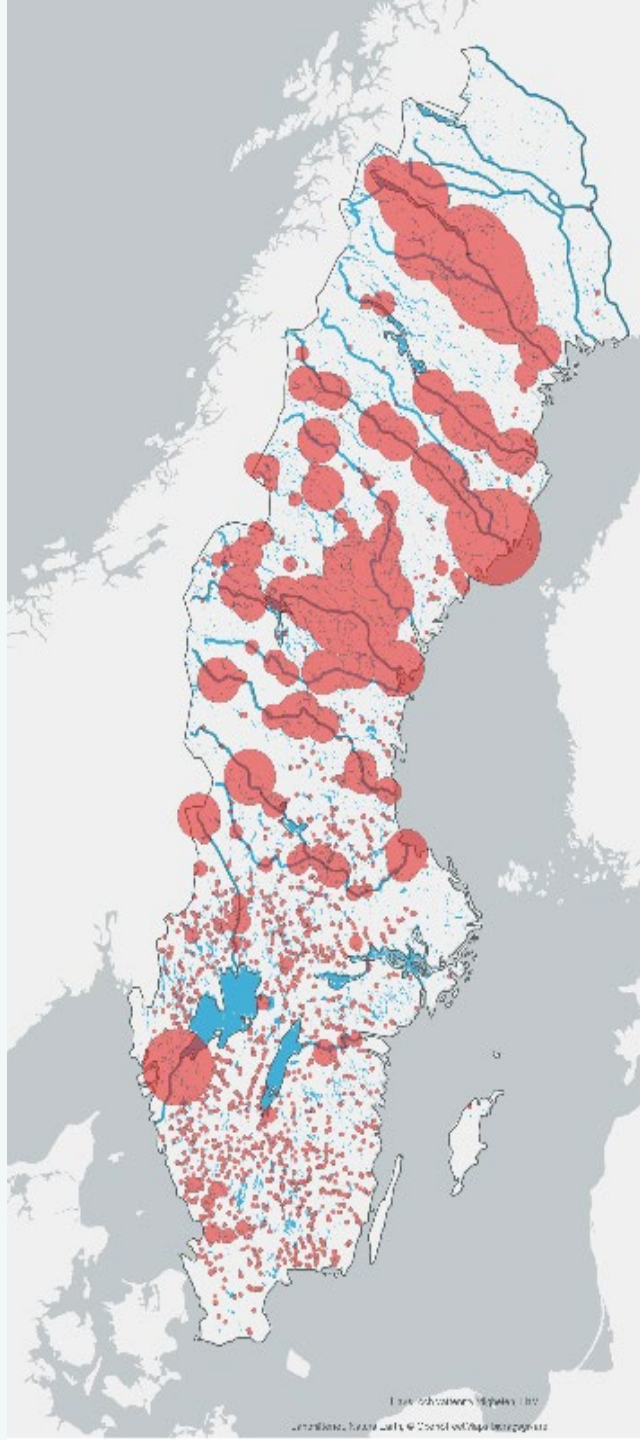
- » About 100 hydropower plants submitted their application during 2022. The courts have decided in less than 20 applications.
- » The majority of these hydropower plants are small - less than 1,5 MW installed effect.
- » There are 53 applications for new fishpassages and 22 applications to decommission dams. Most applications are in the south of Sweden.
- » About 40 Collaborationsprocesses have been finished.
- » New investigations on effects of the revisions on the electrical system are ongoing during 2023.

Collaboration process

Application to court

Legal review

Implement measures



The Hydroelectric Environmental Fund

- » Owners of hydropower plants can receive financial grants from The Hydroelectric Environmental Fund to adapt their power plants
- » The fund is founded and financed by eight Swedish energy companies which has set aside 1 Billion euro.
- » The fund will pay up to 85 % of the costs for the license revision in court, and for implementing the environmental adaptations required to fulfill modern environmental conditions.

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