



NVE

Norwegian Water Resources
and Energy Directorate

An overview of emerging management practice to reduce ecological impacts from hydropower in Norway

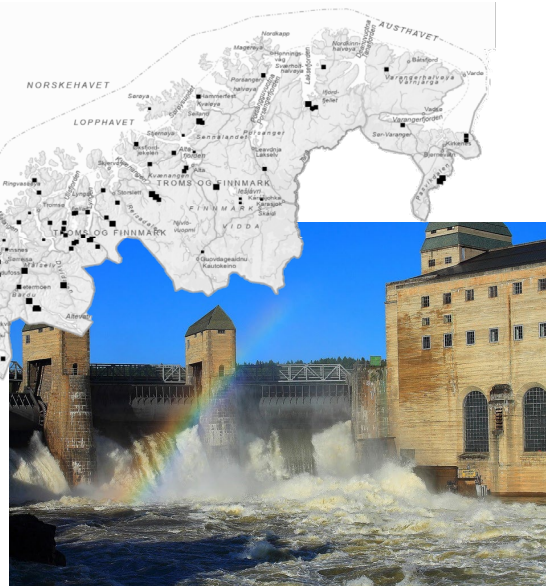
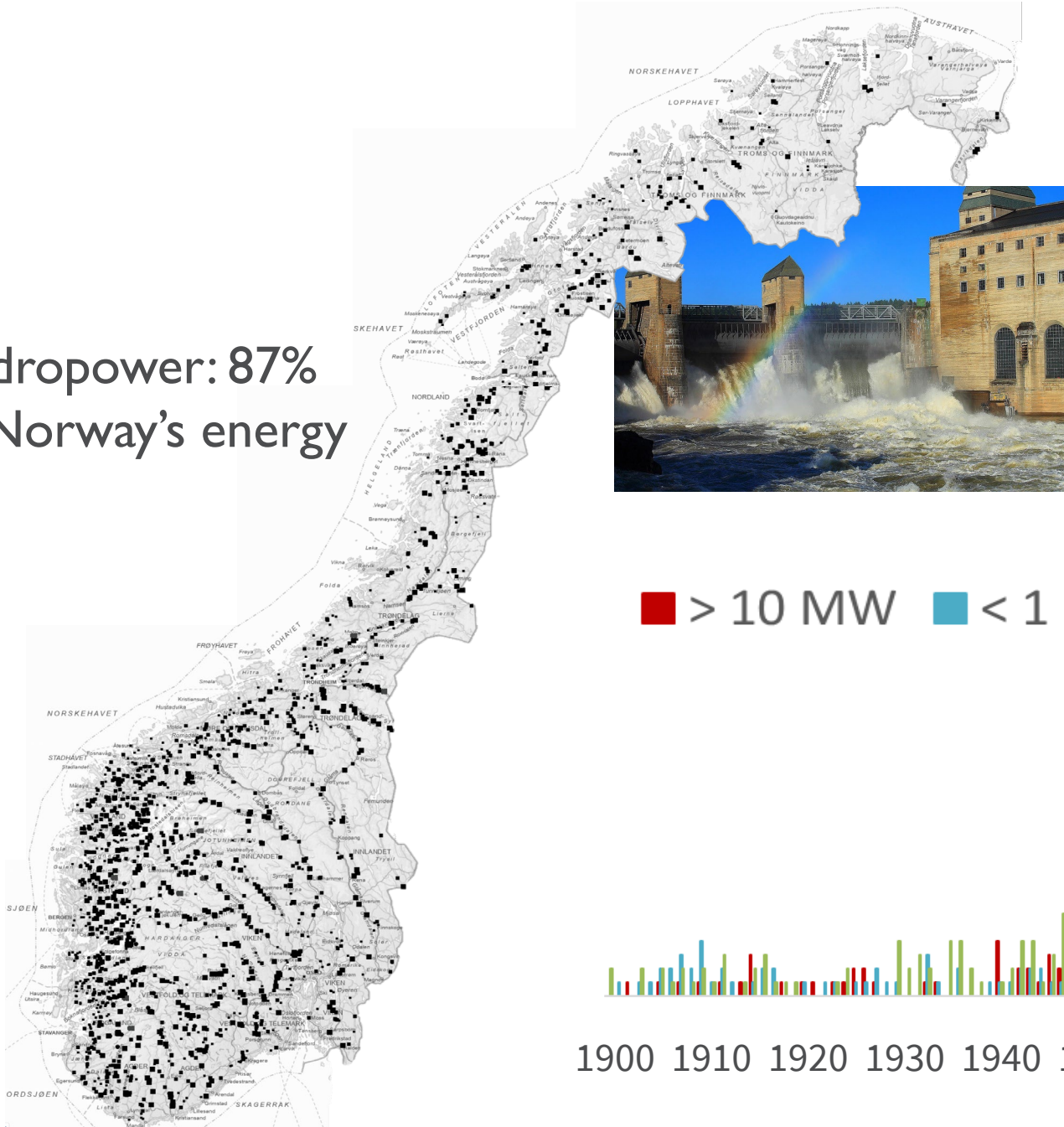
Oda Bjærke

Senior adviser, NVE

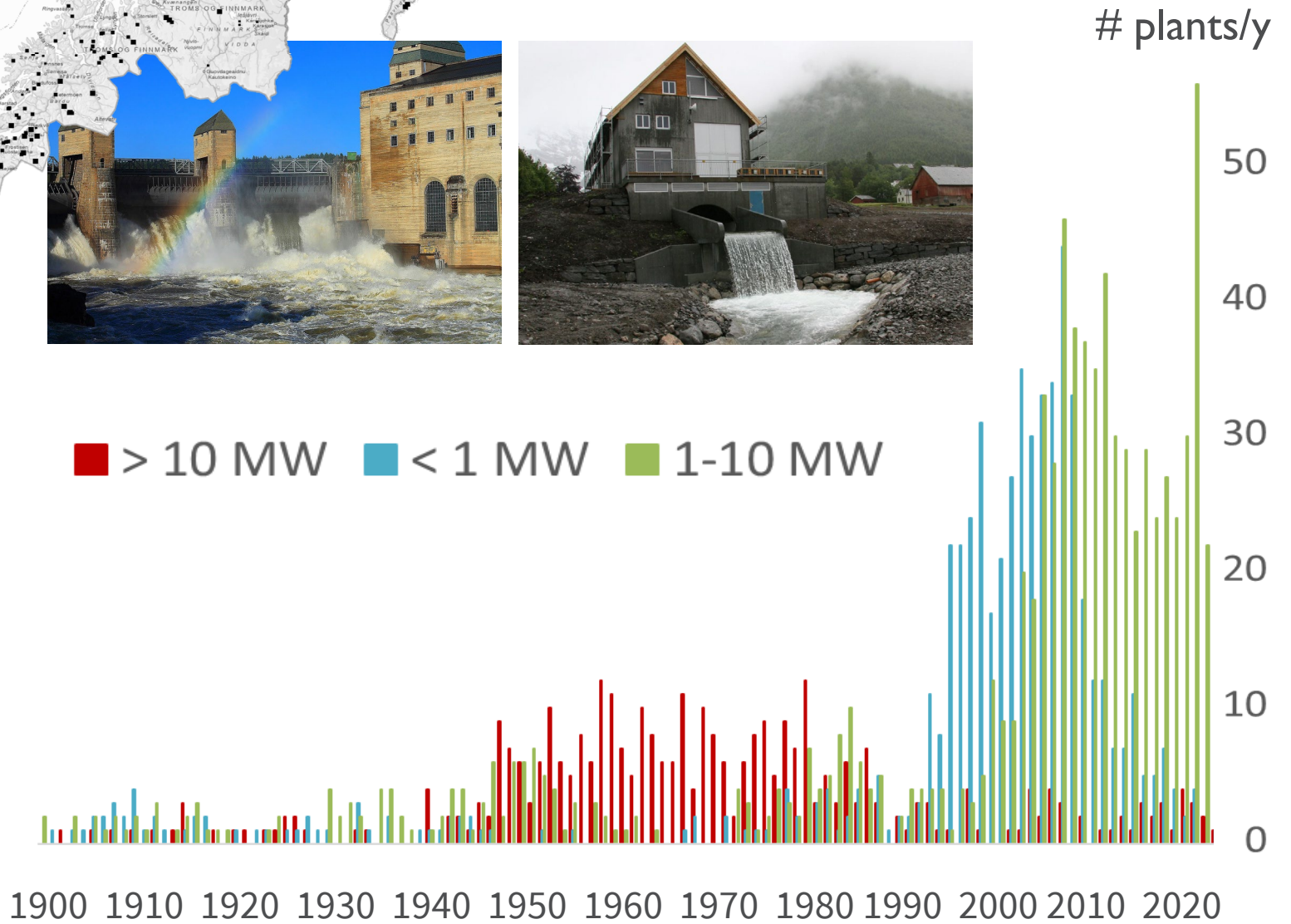
13.6.2023 Trondheim



Hydropower: 87%
of Norway's energy



■ > 10 MW ■ < 1 MW ■ 1-10 MW



Conditions for
granting new
licenses

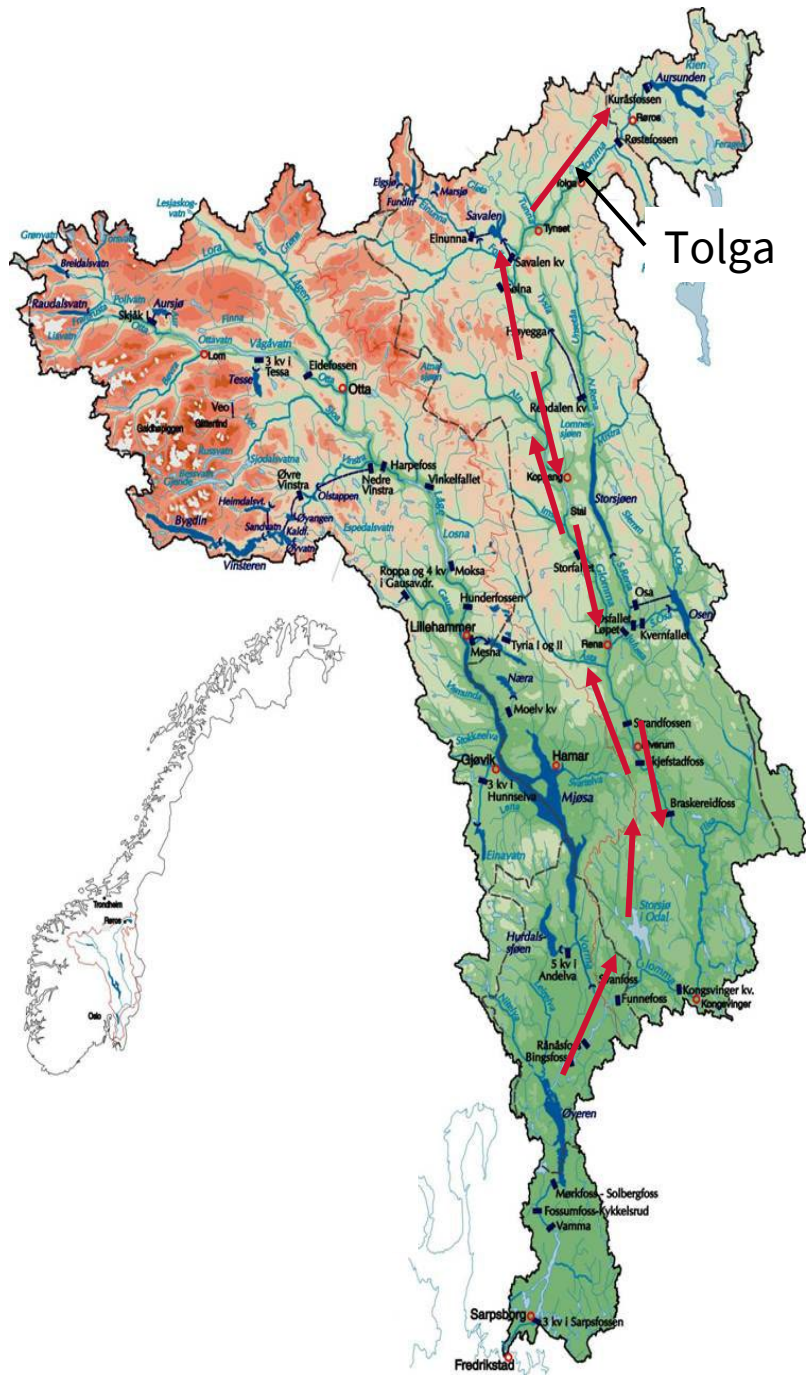


Revising
conditions for
existing facilities



Migration





Tolga hydropower plant

Photo: Hafslund.no



Photo: Akershusenergi.no

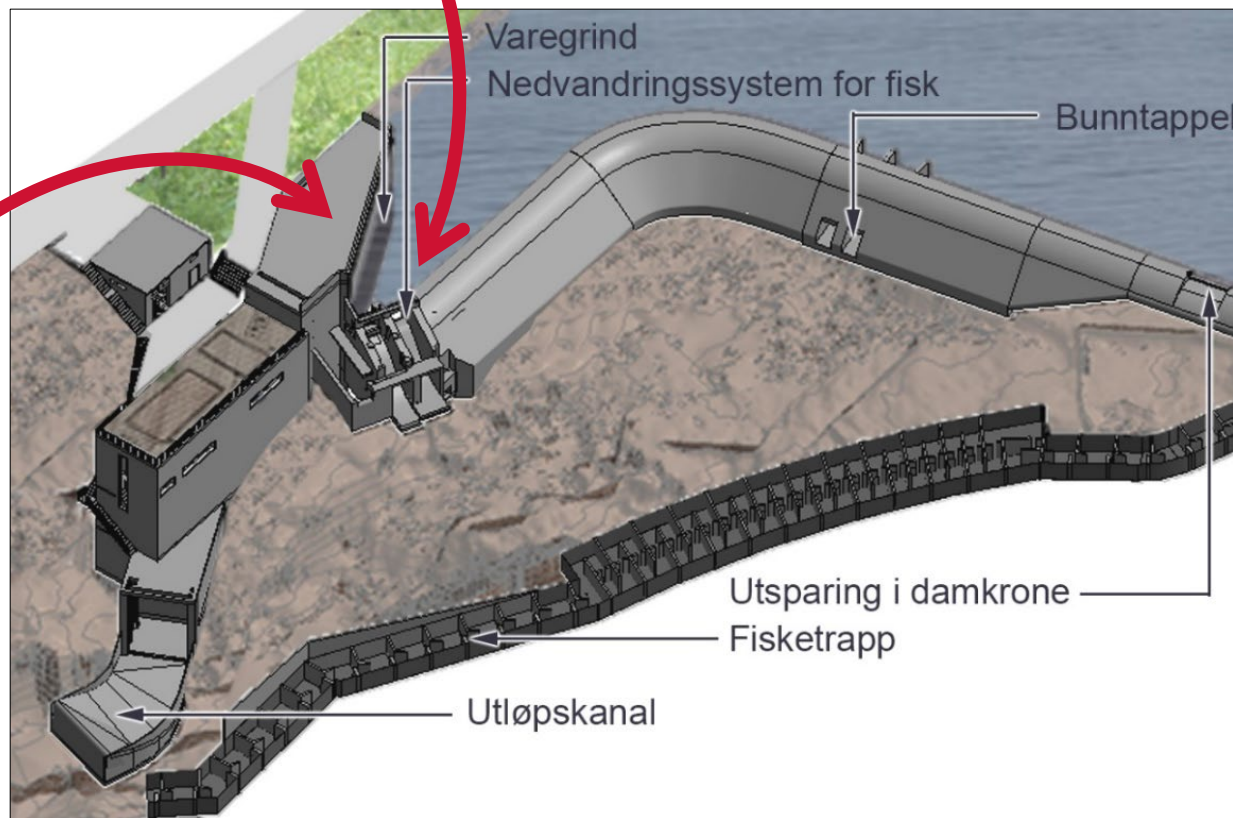
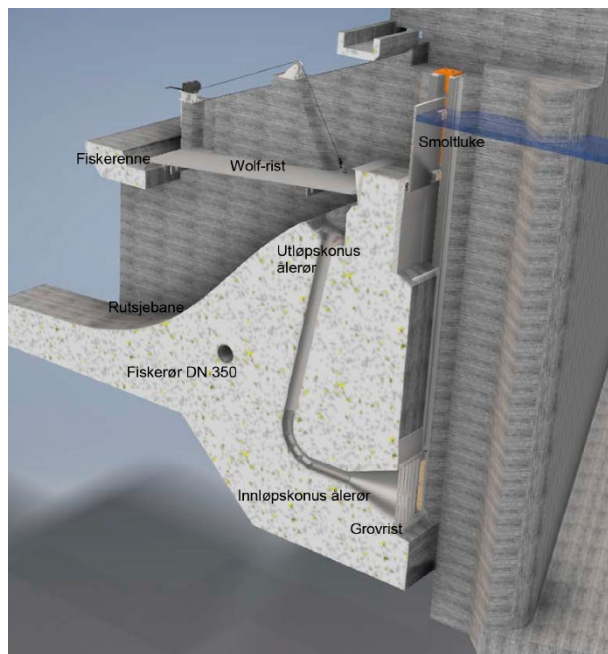


Photo: Hafslund Eco

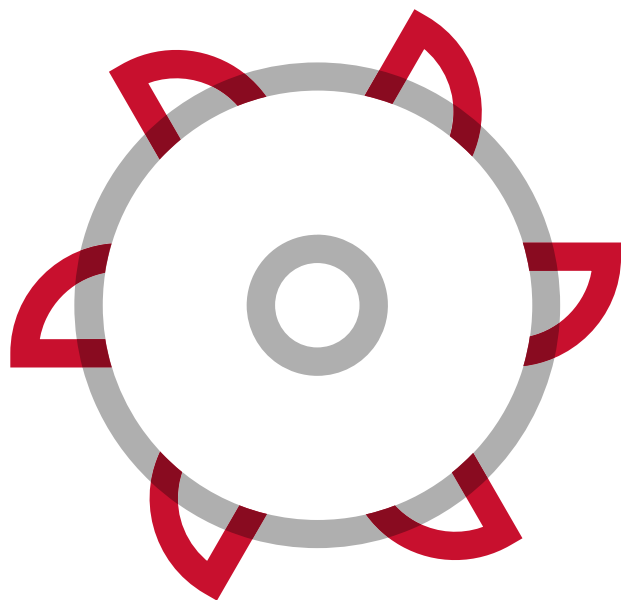


Uprating and refurbishment in Palmafossen hydropower plant

Foto: Voss Energi AS

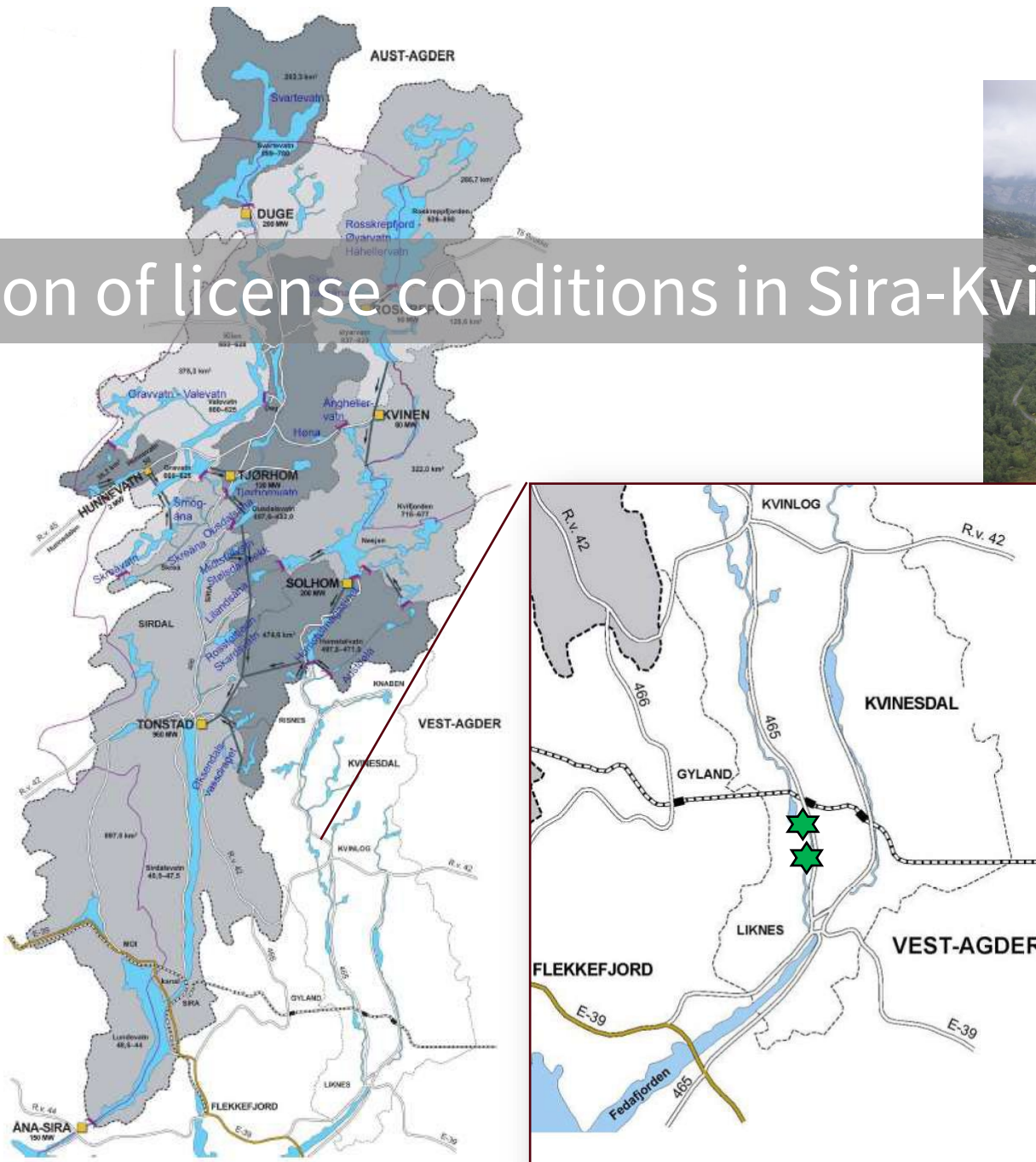


Mutual gains?





Revision of license conditions in Sira-Kvina



Wild reindeer



Wild reindeer






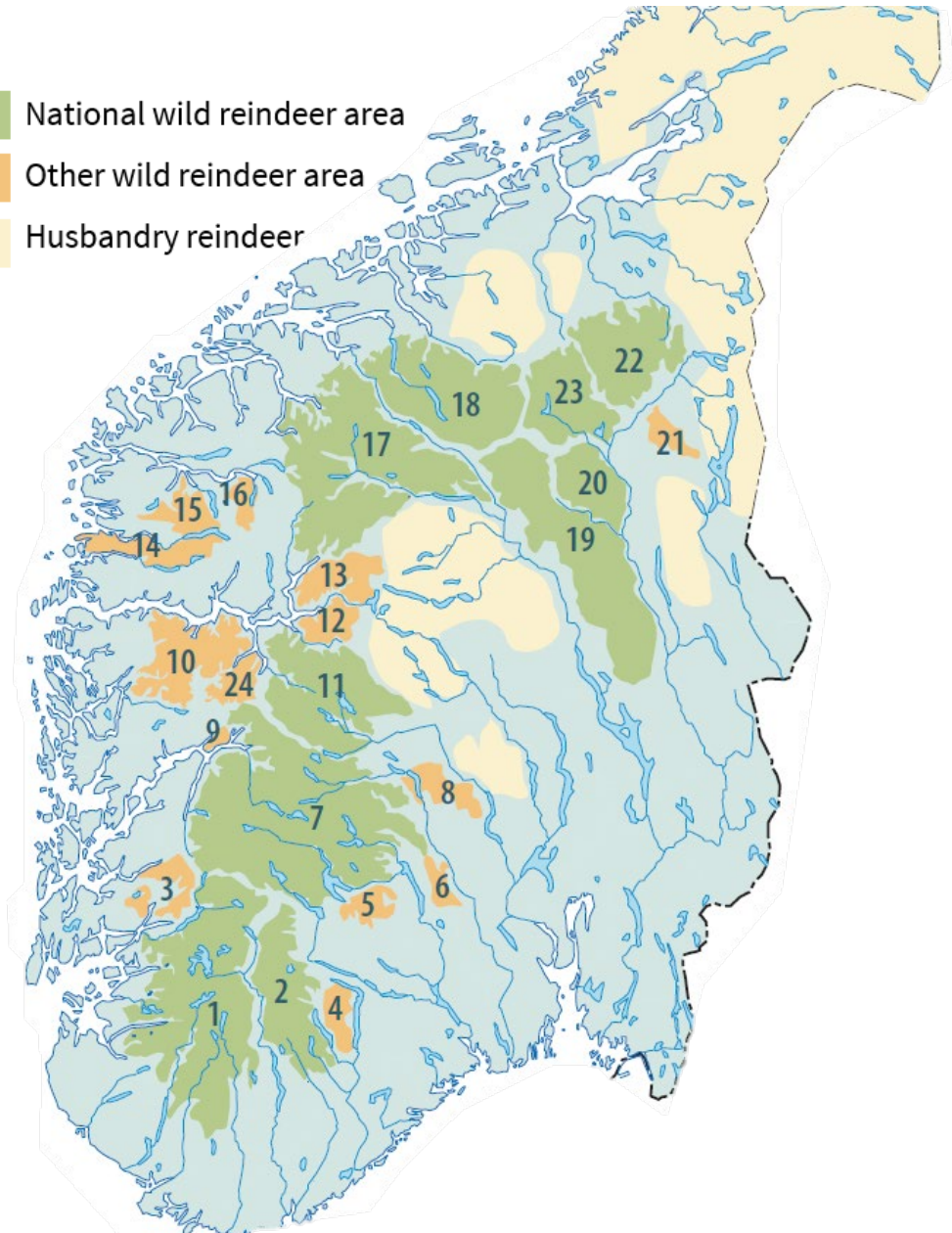
Photo: NVE






Photo: Arne Nyaas, Pixabay

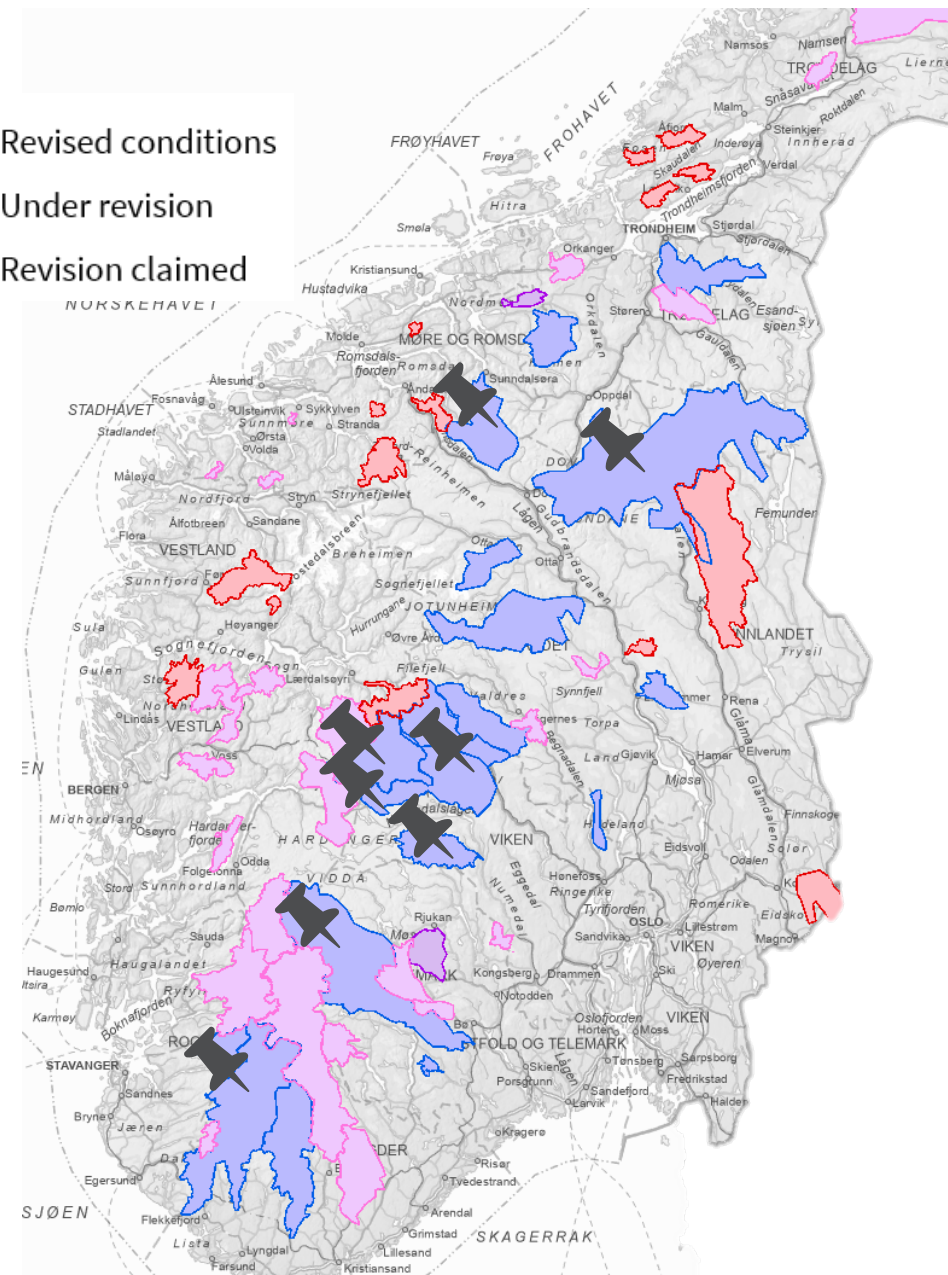


-  National wild reindeer area
-  Other wild reindeer area
-  Husbandry reindeer



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-  Revised conditions
-  Under revision
-  Revision claimed

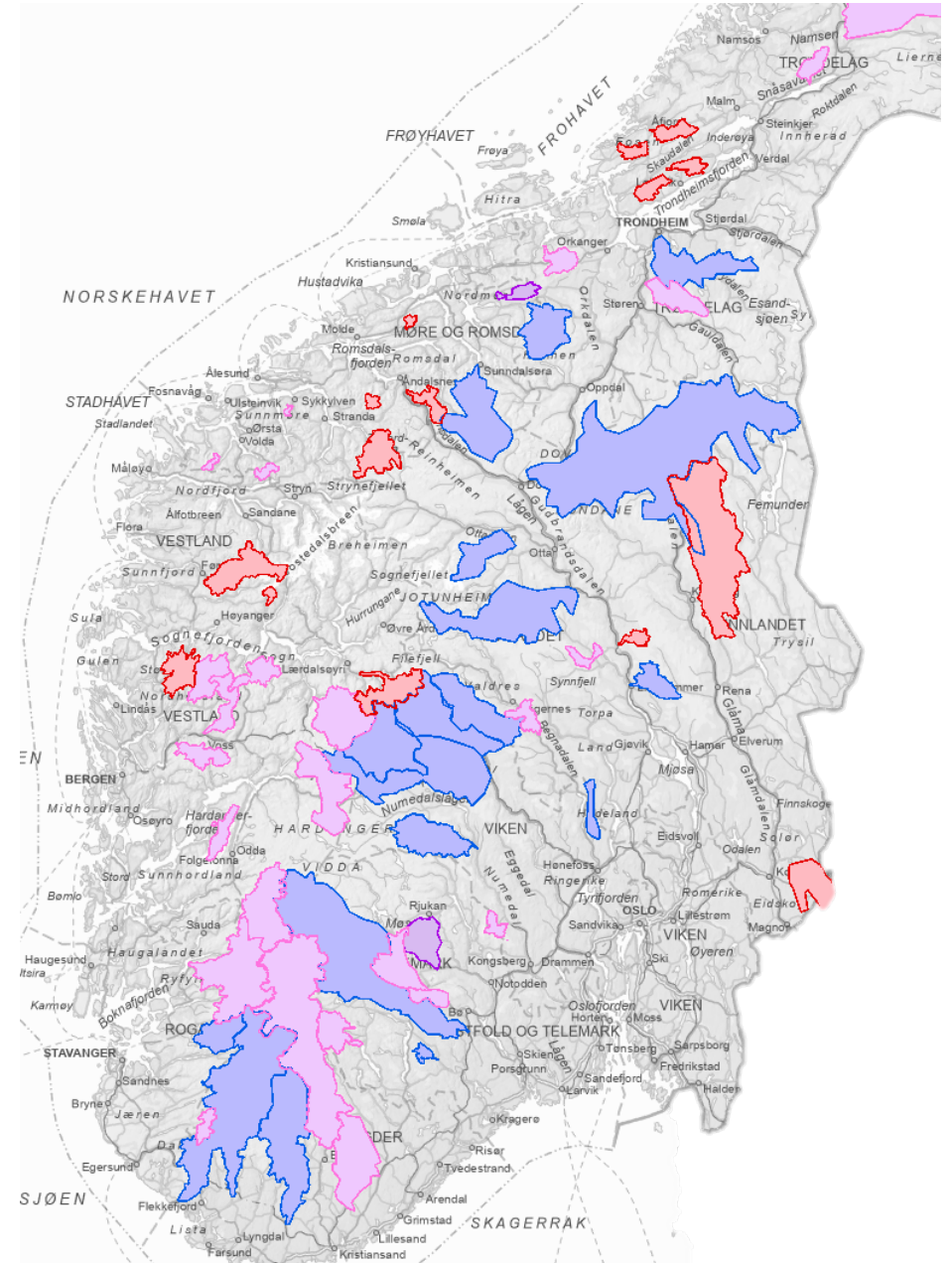


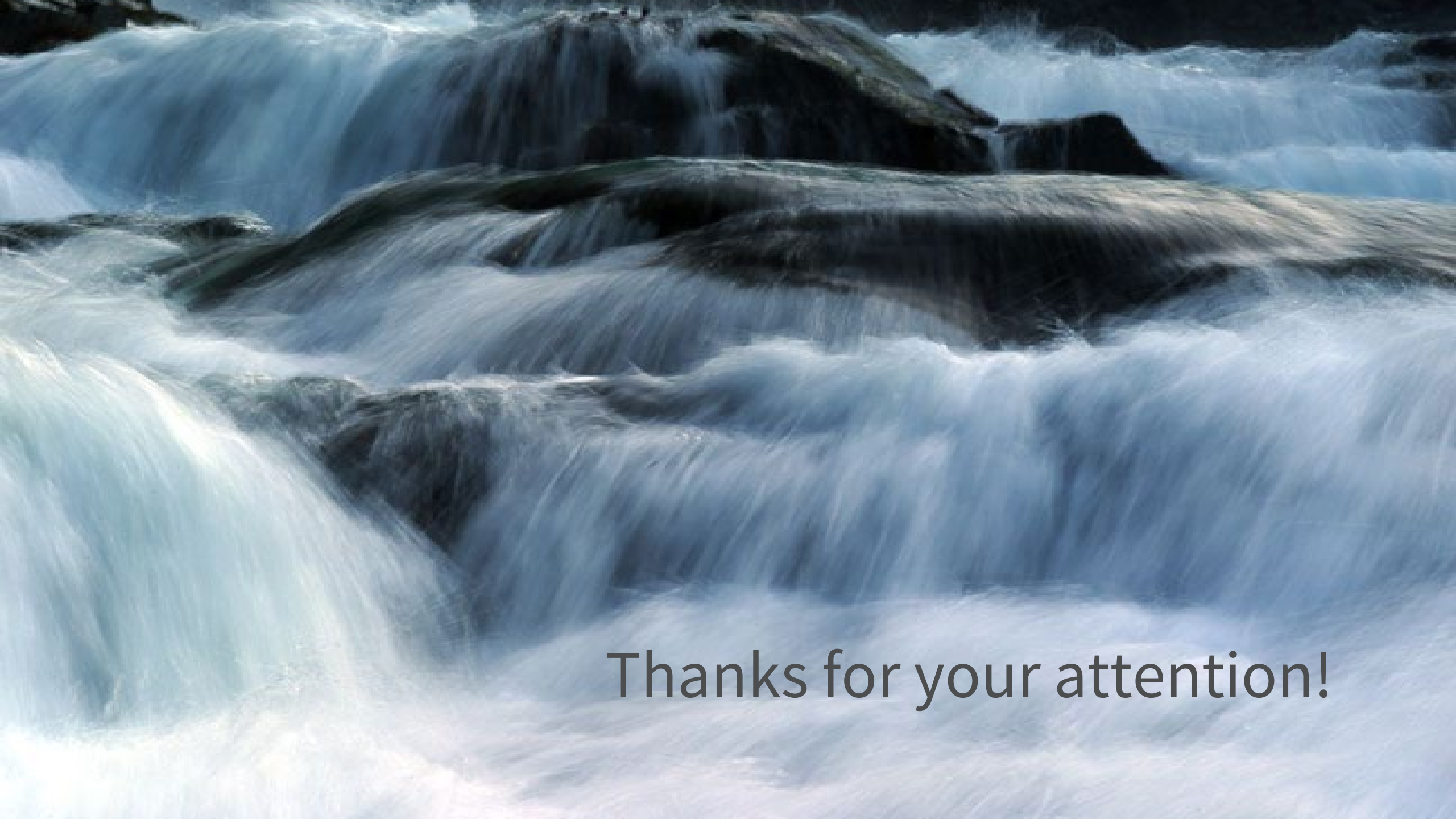
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Sustainability in progress

-  Revised conditions **26**
-  Under revision **33**
-  Revision claimed **21**





Thanks for your attention!