Opportunity to significantly reduce carbon footprint - Replace fossil fueled steam reformers with electrolyzers



Nouryon's Commitment to a Sustainable Future



*Scope 1 and 2 (between 2020-2025)

New incentives promoting the transformation to climate neutrality

- New National and European financial instruments for climate investments for industries.
 - Phase 1 in EU Hydrogen strategy: Production of up to 1 million tonnes of renewable hydrogen for the de-carbonisation of existing hydrogen production (2020-2022)
- Nouryon has identified an opportunity to replace fossil fueled steam reformers in production of Hydrogen Peroxide with water electrolysers to reduce green house emissions.
 - Electrolyzers will reduce our CO₂ emissions with 75kt per year

Energiforsk, Webinar February 3 2021

Nina Simic, Nouryon R&D

Already today large scale producer of green Hydrogen in the Nordics

- Long histrory in electrochemical manufacturing
- Large scale H₂ production in chlorate process and water electrolysis (largest in Nordics)
- We can quickly reduce significant amounts of CO₂ within 2-3 years (with right financial support)
- Green H₂ is used e.g. for production of green Hydrogen peroxide

Sodium chlorate



Installed capacity Install in the Nordics: 65 MW in the H₂ production: 9 kt per year H₂ production

Water electrolysis



Installed capacity in the Nordics: 10 MW H_2 production: 1.3 kt per year

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Future plans in green H₂



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