



Industrial CCS – Norsk Hydro

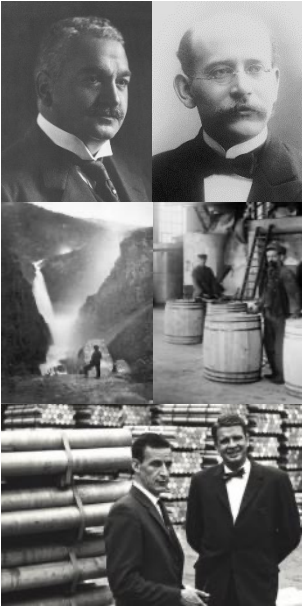
US – Norway bilateral meeting 30th June 2022

Global aluminium and renewable energy company

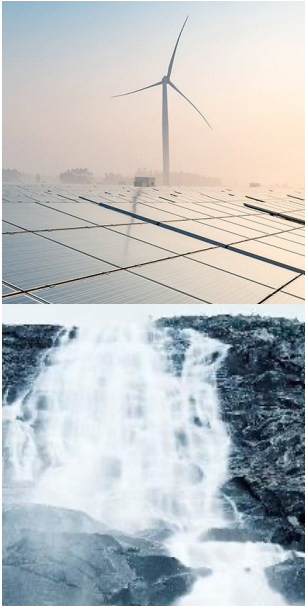


Our purpose is to create a more viable society by developing natural resources into products and solutions in innovative and efficient ways

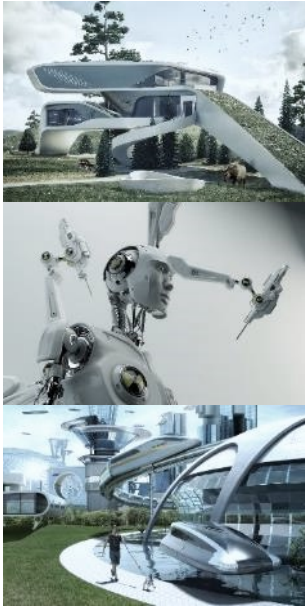
115 years of sustainable industrial development



Infinitely renewable energy



Aluminium – metal of the future



Global reach, local presence

31,000 employees

140 locations

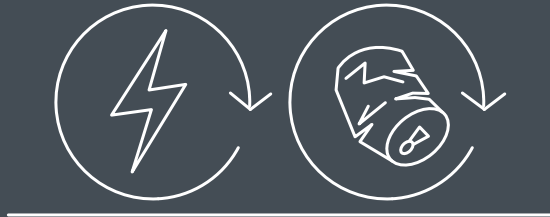
40 countries

Responsible and engaged



Sustainability ambitions: The basis for future position and profitability

Climate



Net-zero products, net-zero company, net-zero society

Environment



Protect biodiversity and reduce our environmental footprint

Society



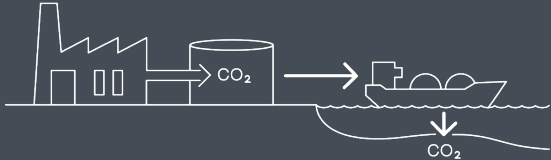
Improve the lives and livelihoods wherever we operate

Roadmap towards zero emission aluminium production

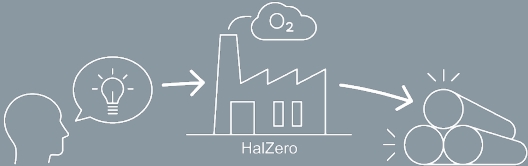


Ambition: Industrial pilot for zero-emission aluminium production by 2030

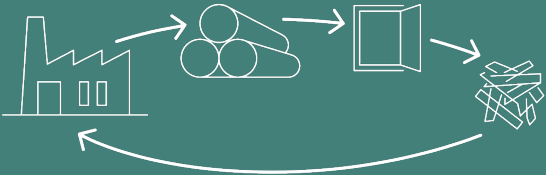
CO₂ capture and storage



HalZero – emission-free electrolysis technology

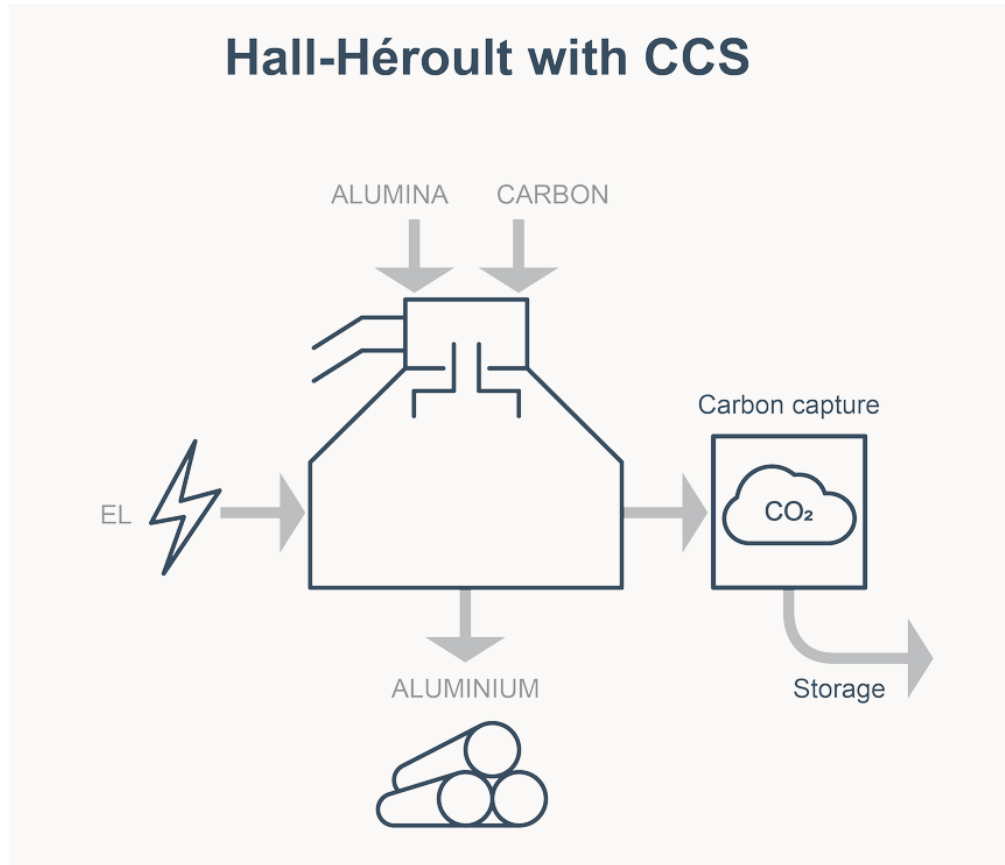


Recycling

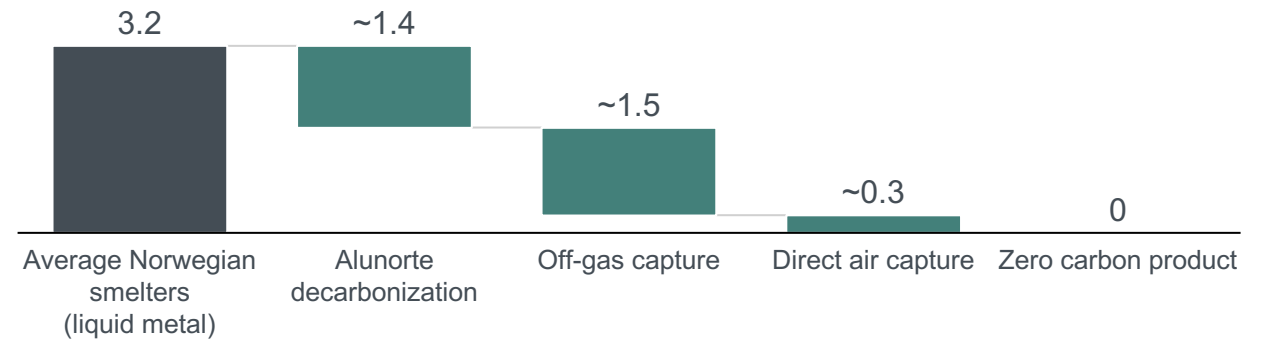


Carbon capture and storage

Hydro's challenge: low-concentration off-gas, need to develop capture-ready cells



Carbon capture and storage – emission abatement potential



Tonnes CO₂e / tonne aluminium, Scope 1 and 2 emissions, liquid metal

Capture technology – Hydro's challenge

- Low concentration off-gas (around 1% CO₂)
- Off-gas pollutants challenge compatibility with capture systems
- Capture players target main markets
 - Point source capture in industry and power (>4% CO₂)
 - Ambient air capture (0,04% CO₂)



Hydro

Industries that matter