

Neste in a nutshell

- We create solutions for combating climate change and accelerating a shift to a circular economy.
- We refine waste, residues and innovative raw materials into renewable fuels and sustainable feedstock for plastics and other materials.
- We are the world's leading producer of renewable diesel and sustainable aviation fuel, developing chemical recycling to combat the plastic waste challenge.





Driven by our purpose



We are

4,872

dedicated professionals committed to our purpose

In 2021, our customers reduced

10.9 Mt

greenhouse gas emissions with our renewable products

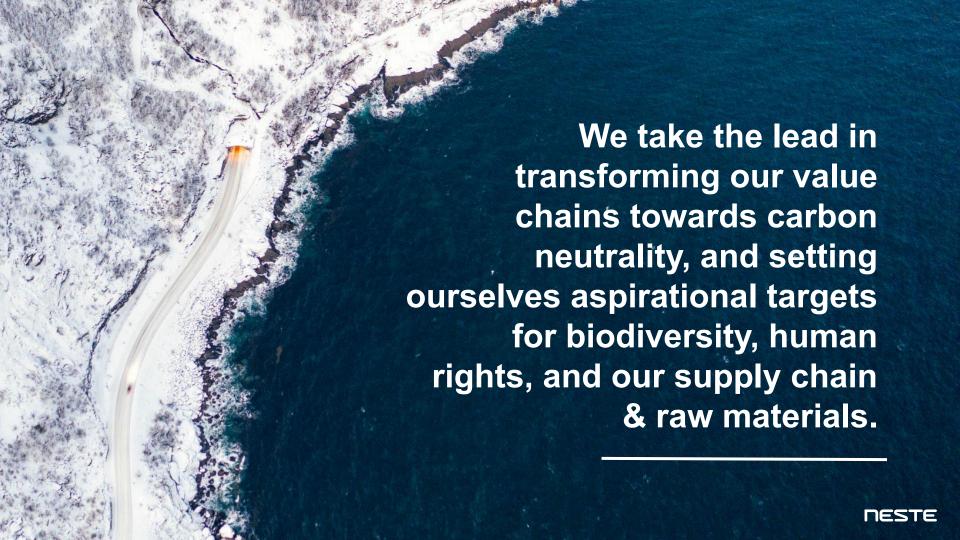
In 2021, we reached

1,342 m€

comparable operating profit



Sustainability as a driver for strategy



Innovation business platforms are aiming for commercial operations before 2030

We are systematically strengthening our partnerships and networks across technological and commercial value chains in all innovation business platforms.

Renewable hydrogen

Establish renewable hydrogen production capabilities and use in Neste's refineries

Power-to-X

Scalable production of fuels and chemicals detached from biomass

Algae

New NEXBTL feedstock from algae oil and high quality ingredients for health and nutrition

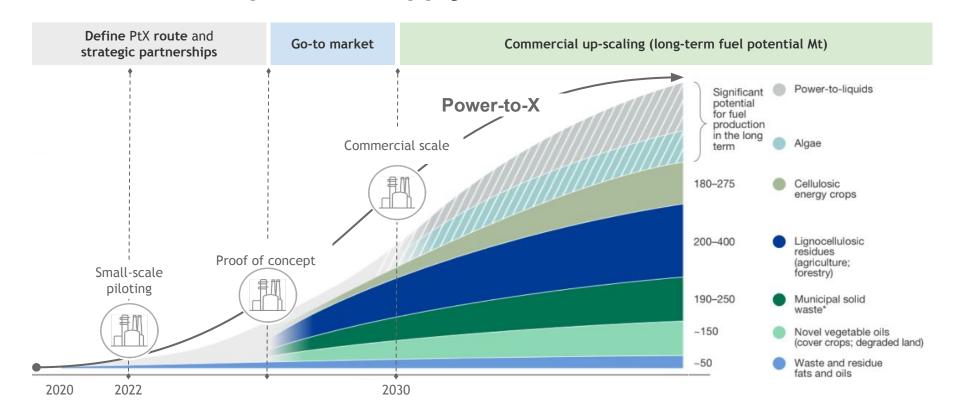
Lignocellulosics

New renewable and scalable feedstock for fuels with possible diversification into chemicals

Municipal Solid Waste

New circular feedstock and technology for producing fuels & chemicals

Rapid deployment of new PtX technologies and feedstock mobilization required to supply sustainable fuel volumes 2030+





Neste aim to be among the first companies bringing eFuel volumes to the market

The growth path of sustainable aviation fuels is based on continuously expanding raw material base

Current



Used cooking oil
Waste oil from food
cooking



Animal fat Food industry waste



Near future 5 - 10 years



Lignocellulosic



Future 8-10 years



Algae



Regulation, incentives and voluntary markets for SAF are all needed to drive emission reductions in aviation

Fuel supplier and producer incentives and mandates

Airline obligations and voluntary schemes



End-customers can accelerate SAF demand

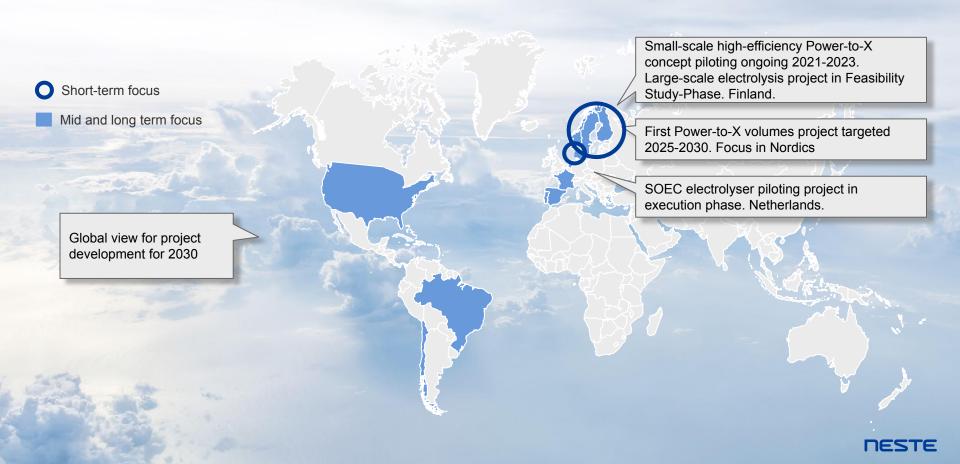
E.g. SAF mandates, opt-in incentives

E.g. EU ETS, CORSIA, Science-Based Targets

E.g. Science.Based Targets, private traveller SAF programs

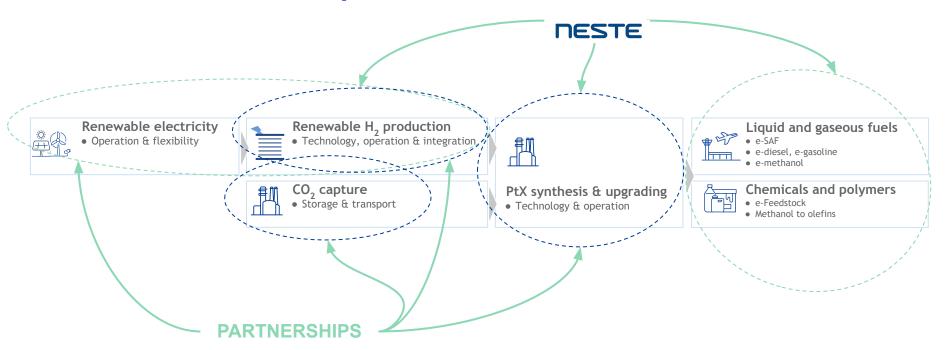


PtX is developing projects with global view



Collaboration is required for scale-up

Strengthening our partnership and networks across the value chain in the business platform Power-to-X







Reducing CO₂ emissions from our Porvoo refinery in line with the targets in Paris agreement

50%

emission reduction by 2030.

Enablers:

- 100 % renewable electricity
- Energy efficiency improvements
- Reforming hydrogen production

Targeting to reduce

~400 kt/a CO₂e

emissions by 2025 onwards.

Renewable hydrogen enables production of **low emission fuels** and other refined products.

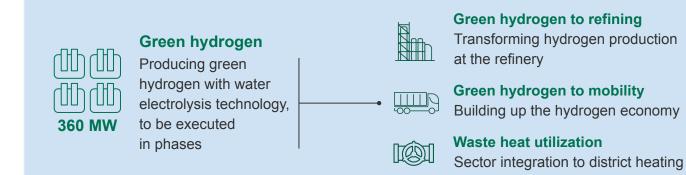
Renewable hydrogen builds also a foundation for PtL production



Project SHARC:

Neste develops large-scale green hydrogen supply to Porvoo refinery

Neste's SHARC project is a clean hydrogen project focusing on investing in production capacity of green hydrogen and reducing emissions from hydrogen production at the Porvoo refinery. The project is currently in the feasibility phase and the target is to start the first phase of operations (120 MW) around mid 2020s. Funding from the EU Innovation Fund*.









European Commission has granted IPCEI status for Porvoo refinery hydrogen projects

Porvoo refinery to become integral part of European hydrogen and PtX value chains

Collaboration and partnerships

Developing sustainable solutions for transport and industry



Leading the way in green transition: Key enablers for renewable hydrogen investments



Renewable electricity ramp-up

Massive investments to renewable power production and transmission capacity



Infrastructure build-up

Power transmission and hydrogen storage & distribution infrastructure development



Electrolysis

Electrolyzer manufacturing capacity is not meeting the demand - accelerated capacity ramp-up needed



New partnerships

Value chain development and cross sectoral integration between industry and utility sector



Regulation

Clear, enabling regulation to drive investments



Funding

Financial support to kick start the hydrogen economy



Faster, bolder and together

Scaling up our renewable and circular solutions.

Increasing innovation in extensive collaboration with research and value chain partners.

Establishing mutually beneficial partnerships with commitment to sustainability.







CEMENT, CONCRETE AND CO₂

Concrete is essential for building a sustainable society







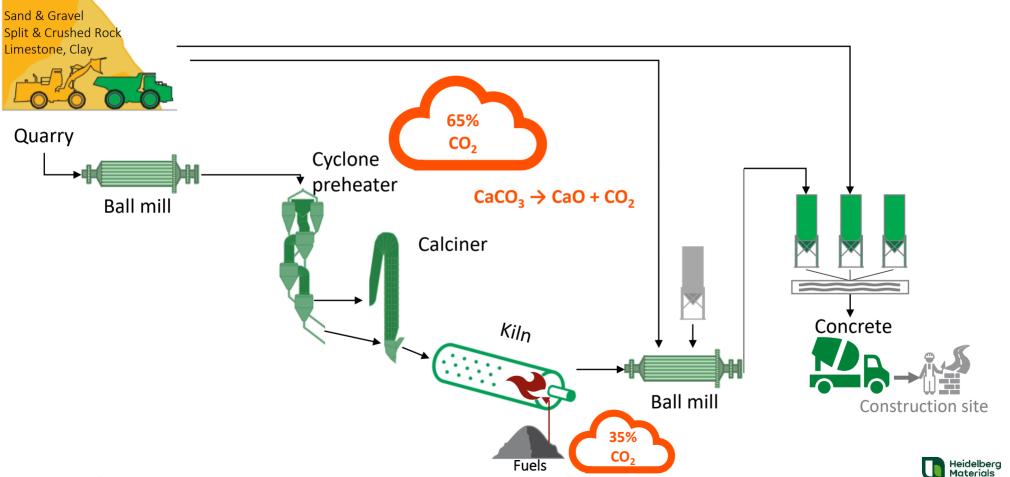








Cement represent 6 - 8% of total CO_2 emissions; 2/3 from the production process



Climate actions in the cement industry



Alternative fuels

Alternative raw materials



Carbon capture



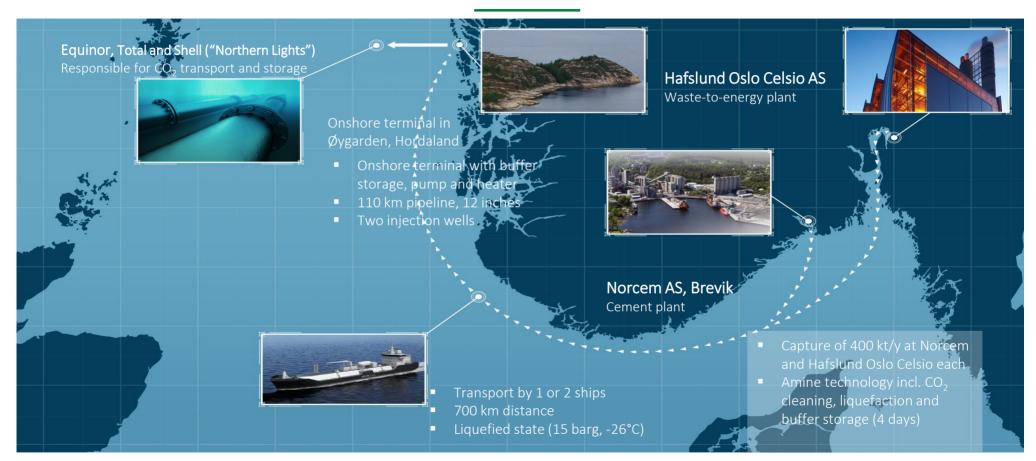
CCS in Norcem



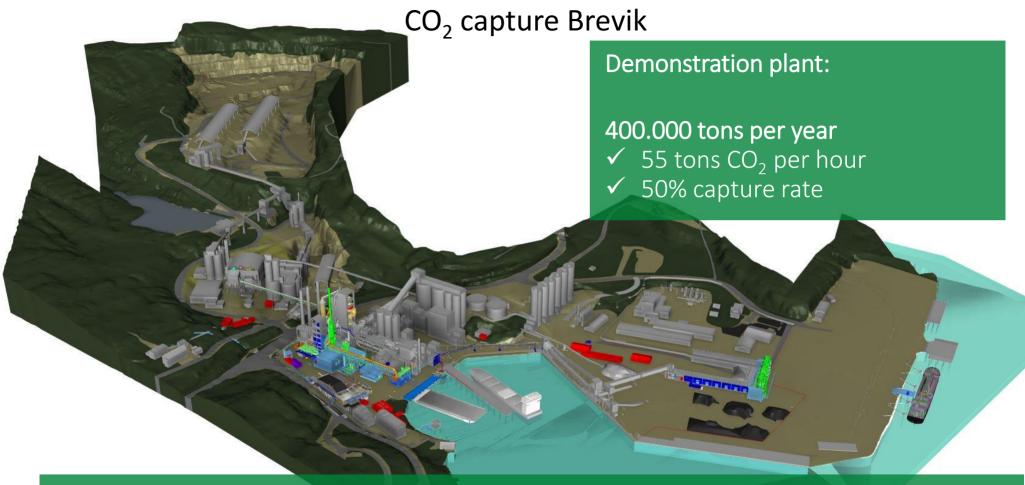
- First internal desk studies in co-operation with Regional Technical college. R&D-project.
- Received in 2010 economic support (100 k€) from ECRA to develop an application for Gassnova funding
- The test-project 2013 17 key for developing carbon capture at Norcem Brevik. The project is still the basis for our work. First results presented at the CCS-seminar in Langesund in May 2015.
- From 2015 part of Norwegian Carbon capture Development project (Feasibility, Concept and FEED studies)
- Longship launched 21 September 2020



Longship today



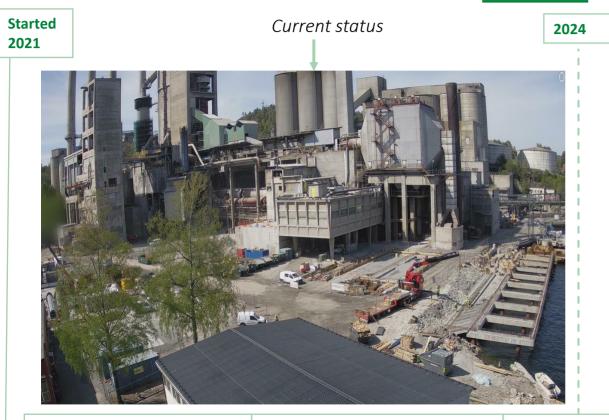




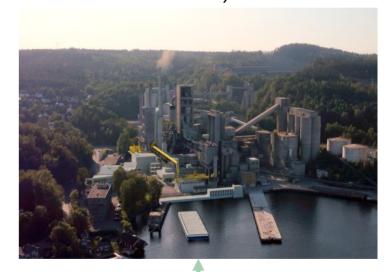
Simultaneously building a new factory whilst maintaining full operational capacity in the current plant



We are on the way towards 2024



Estimated view July 2024











Public interest is high / Many prominent guests

Stakeholders

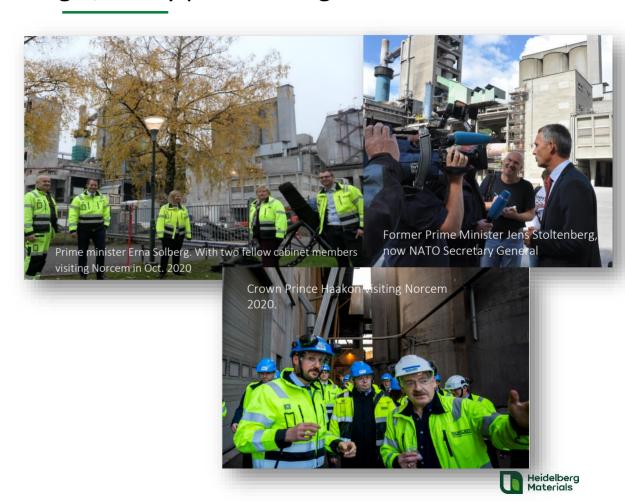
- Government / Ministry / Politicians
- EU / EEA
- Norcem/HeidelbergCement
- Academia R&D
- Neighbours/Community

Huge responsibility

- «Norwegian tax payers' money»
- "Open door"-policy
- Public procurement

Benefits realization

- Responsibility as a big emitter
- Control regarding progress and costs
- «Lessons learnt» sharing experiences for contribute to further CCS deployment



WE DRIVE DEEP DECARBONISATION

Driving CCUS with extensive and most advanced project portfolio in the sector

