



Welcome at
Neste Rotterdam



Safety
starts here



SAFETY MOMENT

Accelerating the green transition

We create solutions for mitigating climate change and accelerating a shift to a circular economy.



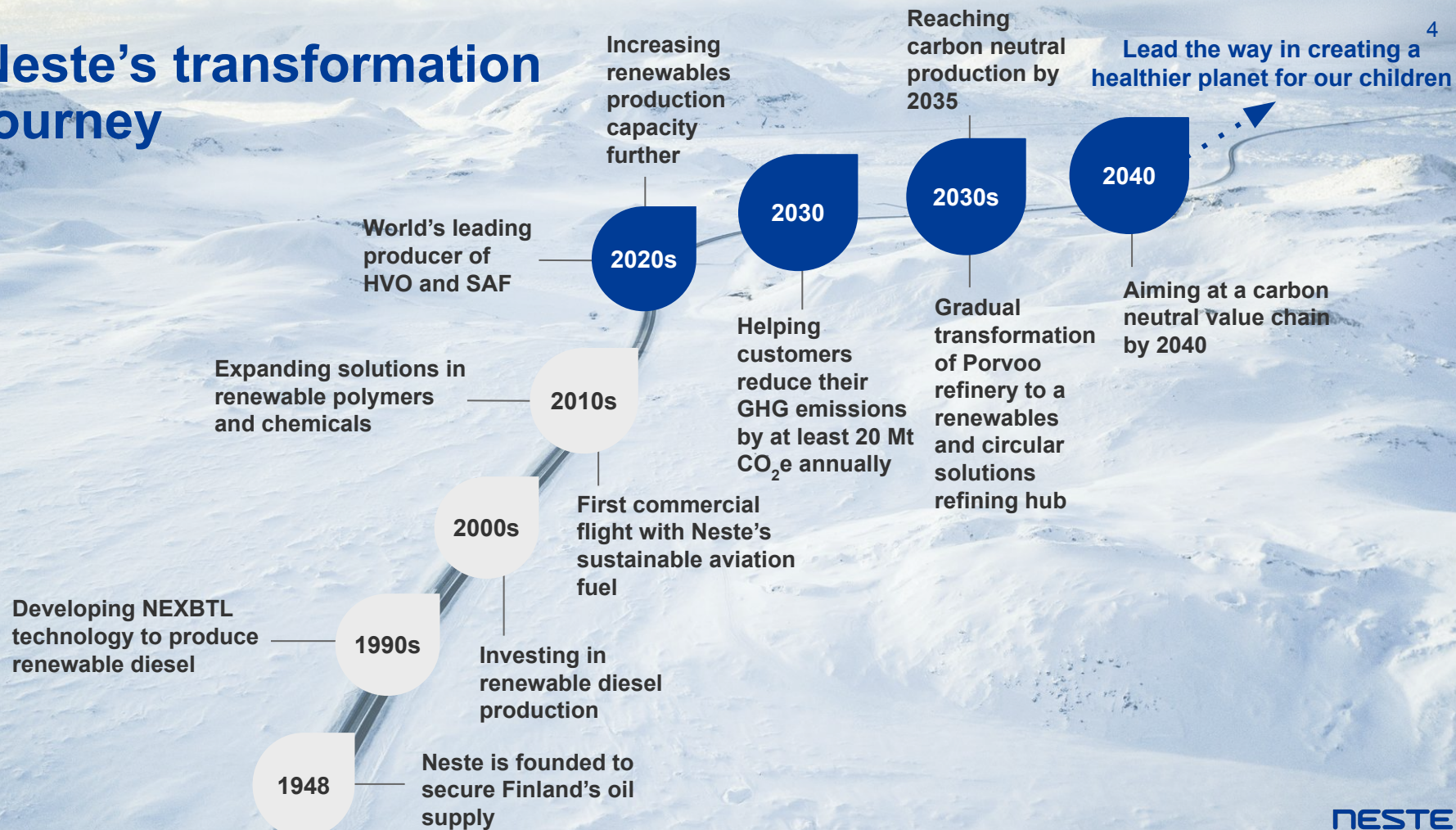
In 2024, we enabled our customers to reduce their GHG emissions by

12.1 Mt CO₂e

by using our renewable products



Neste's transformation journey



Neste Renewable Products business area helps customers reduce greenhouse gas emissions

5



Aviation

Neste MY Sustainable Aviation Fuel™ is a solution for replacing fossil jet fuel to reduce aviation related emissions.



Road transportation and other segments

Neste MY Renewable Diesel™ is a lower-emission solution to replace fossil fuel in all diesel-powered engines.



Neste Rotterdam

Europe's largest renewables refinery

Neste's renewables refinery in Rotterdam is Europe's largest renewables refinery. In 2027 it will even become the world's largest renewables refinery when the expansion will be finished

Production capacity

1.4 Mt => 2.7 Mt

Renewable diesel, sustainable aviation fuel, renewable naphtha, renewable propane

2011

In operation since 2011

2+1

Operating & Construction sites

People (Production)

~300 FTE

Integrated utilities networks

NESTE

Development of Neste's activities in the Netherlands

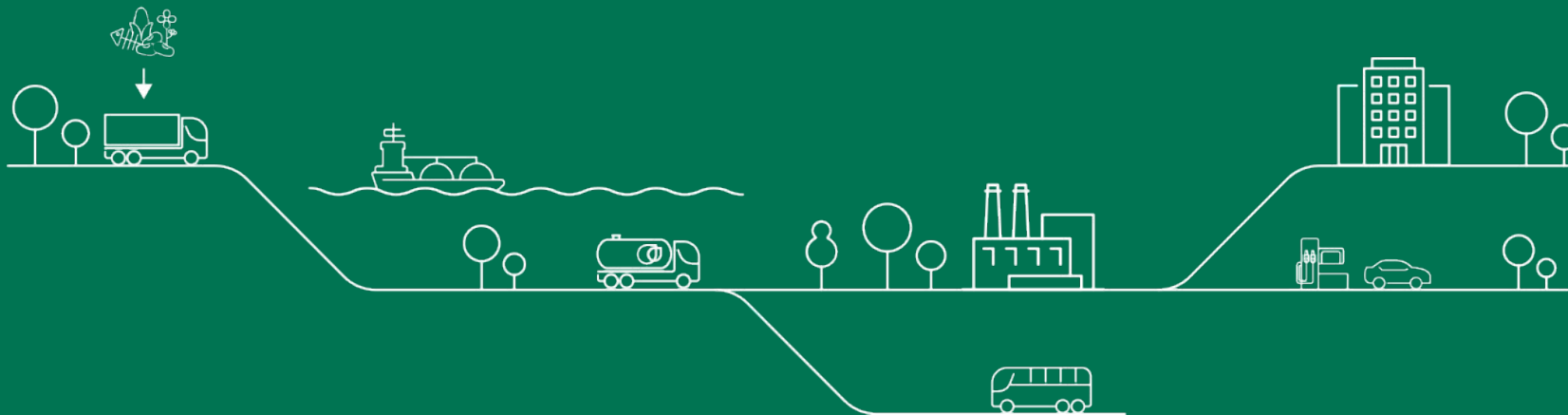




← Refinery Expansion

← Existing Refinery

Turning renewable raw materials into a variety of renewable products with NEXBTL technology



Raw materials

A wide variety of renewable raw materials are sourced around the world

Neste's renewables refineries technically capable of running on 100% waste and residues

Pre-treatment

Pre-treatment of the renewable raw materials ensures impurities are removed before refining

NEXBTL process

Pre-treated renewable raw materials are processed with Neste's proprietary NEXBTL technology at Neste's refineries globally.

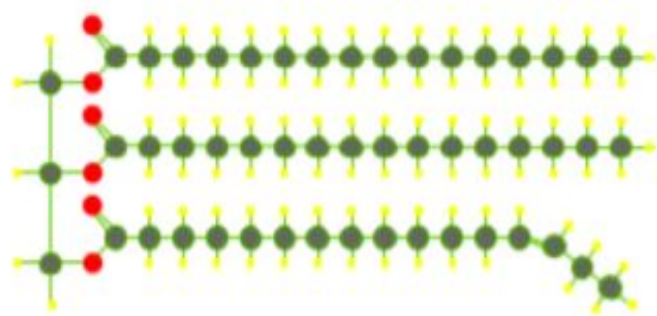
Hydrogen added to remove oxygen. CO₂ and renewable propane can be recovered for commercial use

Total Output Neste

5.5 million tons of Neste renewables per year across three continents

Some Chemistry

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Triglycerides
(fats and oils)

FAME
+Methanol

... are transesterified into fatty acid methyl esters (FAME - which contain oxygen and double bonds)



and
glycerol



limited:

- miscibility
- stability
- glycerol use

RENEWABLE DIESEL
+Hydrogen



and renewable
propane

unlimited:

- miscibility
- stability
- propane use

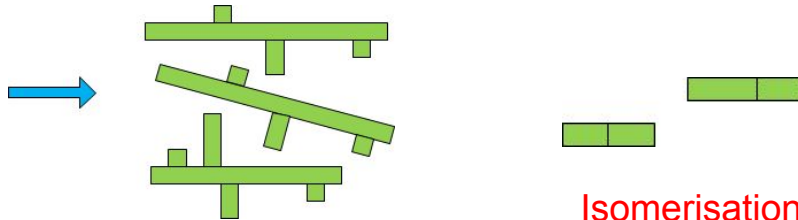
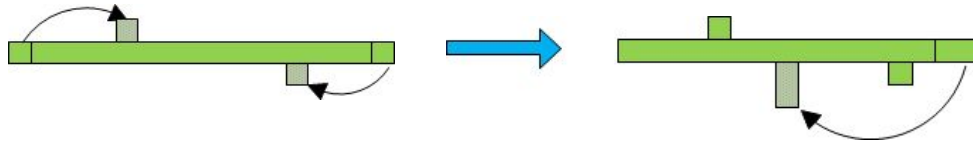
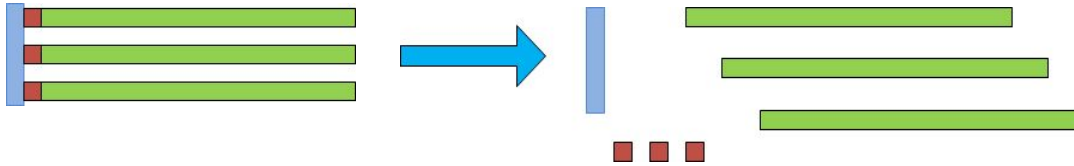
different to fossil diesel, no ring/aromatic structures

NESTE

Some more chemistry...

oils and fats are (almost) natural hydrocarbons

Hydrotreatment (catalytic)



Isomerisation (catalytic)



Difference between Renewable Diesel and Fossil Diesel.

The same goes for SAF versus Jet A1



Doubling production capacity

Rotterdam Expansion

Expanding the existing refinery, doubling total annual production capacity in Rotterdam to

2.7

million tons

A total investment expected to be completed in 2027 of

2.5

billion euro

Once completed, increasing annual SAF production capacity in Rotterdam to

1.2

million tons



Thank you