

Innovationsdriven tillväxt – Case Neste

Programkonferens Förnybara drivmedel och system, Stockholm, 22 November 2018

Dr. Lars Peter Lindfors, Teknologi direktör

Disclaimer

The following information contains, or may be deemed to contain, “forward-looking statements”. These statements relate to future events or our future financial performance, including, but not limited to, strategic plans, potential growth, planned operational changes, expected capital expenditures, future cash sources and requirements, liquidity and cost savings that involve known and unknown risks, uncertainties and other factors that may cause Neste Corporation’s or its businesses’ actual results, levels of activity, performance or achievements to be materially different from those expressed or implied by any forward-looking statements. In some cases, such forward-looking statements can be identified by terminology such as “may”, “will”, “could”, “would”, “should”, “expect”, “plan”, “anticipate”, “intend”, “believe”, “estimate”, “predict”, “potential”, or “continue”, or the negative of those terms or other comparable terminology. By their nature, forward-looking statements involve risks and uncertainties because they relate to events and depend on circumstances that may or may not occur in the future. Future results may vary from the results expressed in, or implied by, the following forward-looking statements, possibly to a material degree. All forward-looking statements made in this presentation are based on information presently available to management and Neste Corporation assumes no obligation to update any forward-looking statements. **Nothing in this presentation constitutes investment advice** and this presentation shall not constitute an offer to sell or the solicitation of an offer to buy any securities or otherwise to engage in any investment activity.

The grey area represents the world's oil consumption (4200 Mt/a), still growing 1.5% per annum

 Neste's renewable fuel production

 3 million electric cars, globally


Global biofuel
Production

Global jet fuel
consumption

The grey area represents the world's oil consumption (4200 Mt/a), still growing 1.5% per annum

 Neste's renewable fuel production

 3 million electric cars, globally


Global biofuel
Production

Global jet fuel
consumption

- Breakthrough innovations and several technological solutions are needed for combatting climate change. Let's not put the technologies against each other!
- Energy efficiency improvements and innovations in renewable transportation, bioeconomy as a whole and development of the circular economy are key areas of development.

PROGRESSIVE REGIONS blaze the trail

Selected countries' envisioned renewable fuel targets 2030



CALIFORNIA
-18% carbon intensity



CANADA
Clean Fuels Standard
under development



SWEDEN
30-40%



NORWAY
40%*



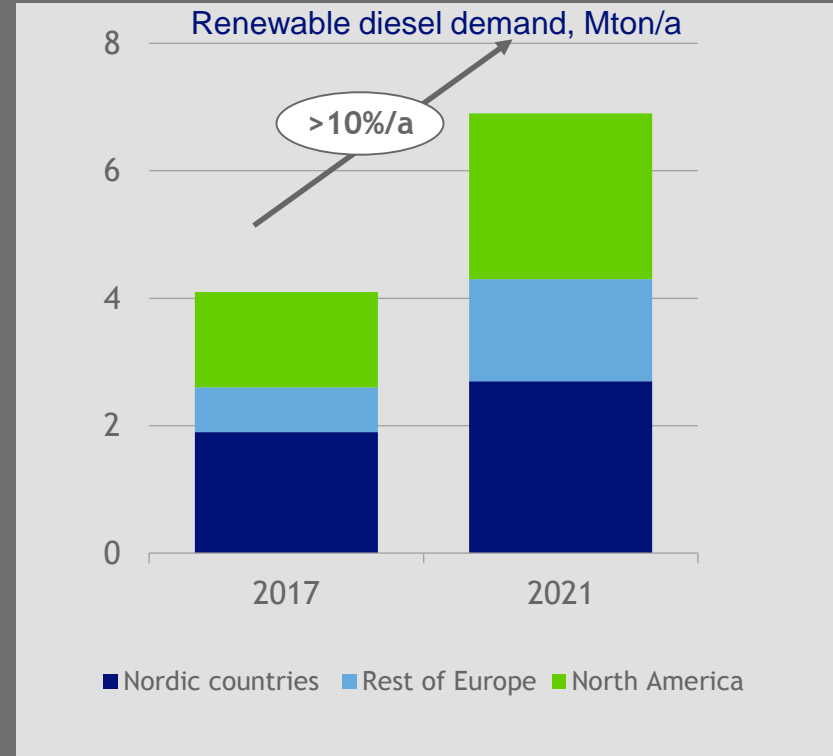
FINLAND
30%



ITALY
17-19%



FRANCE
15%



Thanks to **innovation**-driven growth, we have transformed ourselves from a local traditional oil refining company into a global **leader** providing **low-carbon solutions**.

Neste in numbers

Revenue
€13.2 billion

Comparable
operating profit
€1.1 billion

~ 5,500
employees
in 15 countries

~1,000
employees
working in R&D
and engineering

>10 years on
the Global 100
list of most
sustainable
companies,
#2 in 2017

*Based on 2017 figures.

From low-quality renewable raw materials to high-quality renewable products

We are the world's number

1

renewable diesel provider with a
capacity of 2.7 million tons
(planning to reach 4 Mt
in the early 20's)

Waste and residues
account for nearly

80%

of our renewable
raw materials usage

Neste MY Renewable Diesel helps
reduce GHG emissions by an amount
equaling emissions of

>3

million passenger cars annually

Key success factors in our transformation

Strategic vision

Risk taking

Competence

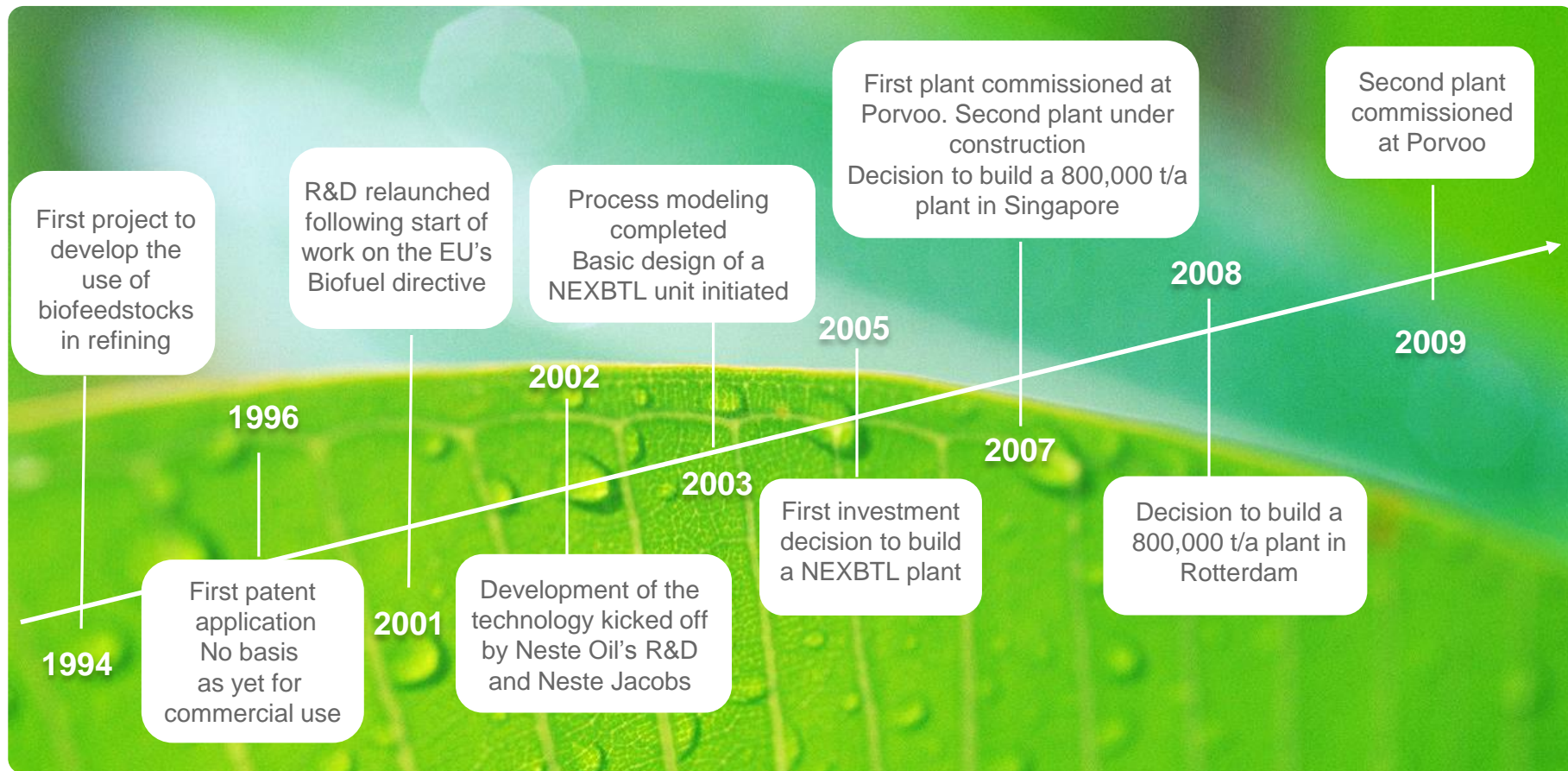
Innovation

Ability to focus

Hard work/patience



Innovation pathway for NEXBTL renewable technology



Two key rationales in our renewable fuel development

**High quality
drop in
solutions**

**Feedstock
flexibility**

Neste's proprietary Renewable Diesel (NEXBTL) process

Feeds in:

Lipids; mono-, di- and triglycerides

- Used cooking oil
- Animal fat
- Waste/residual streams from the vegetable oil industry
- Algae oil (R&D phase)

Pretreatment Units

Turning the feedstock into pure glycerides by various pre-treatment steps removing e.g. metals, phosphorous and plastic waste

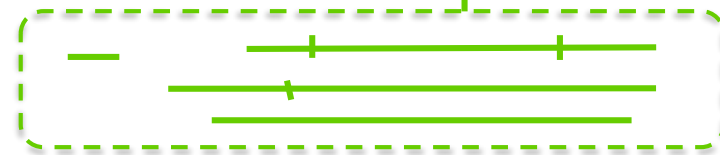
NEXBTL Process Units

Hydrotreatment and Deoxygenation → Removing nitrogen and oxygen

Isomerization → Creating the final product quality, optimizing e.g. the cold properties

Product

- Behaves exactly like fossil diesel
- Can be blended without limitations
- Fully compatible with existing infrastructure
- Excellent solution for improving air quality
- Offers up to 90% CO₂ reduction



Pure hydrocarbons



CASE

Responsible choices in the city:

Renewable cities of California

- Several large cities in California and elsewhere use Neste MY Renewable Diesel in their city fleet, lowering their GHG emissions by up to 90% and improving the local air quality.

CASE

Responsible choices in the air:

Cleaner flights

- Neste MY Renewable Jet Fuel has been used on more than 1000 international, commercial flights.

CASE

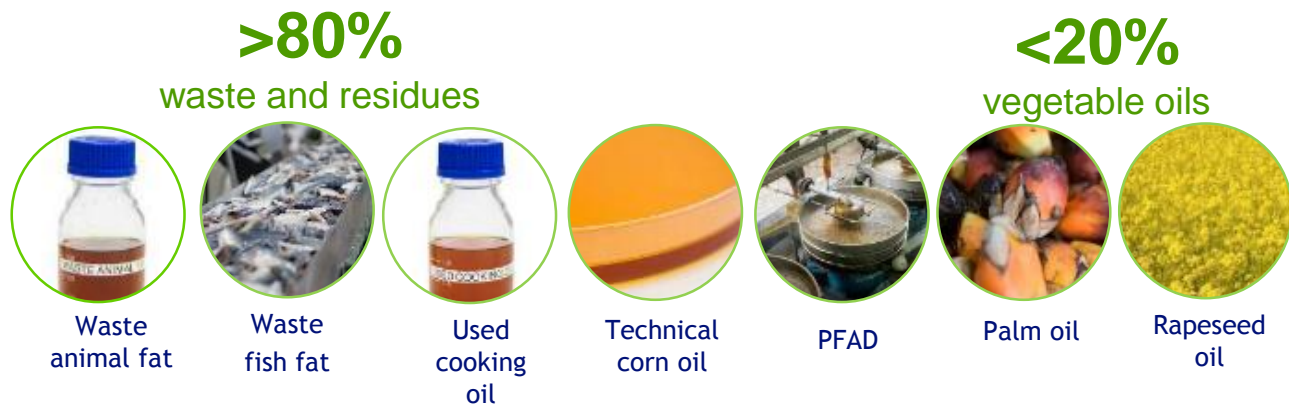
Responsible choices at home:

Redefining the future of plastics

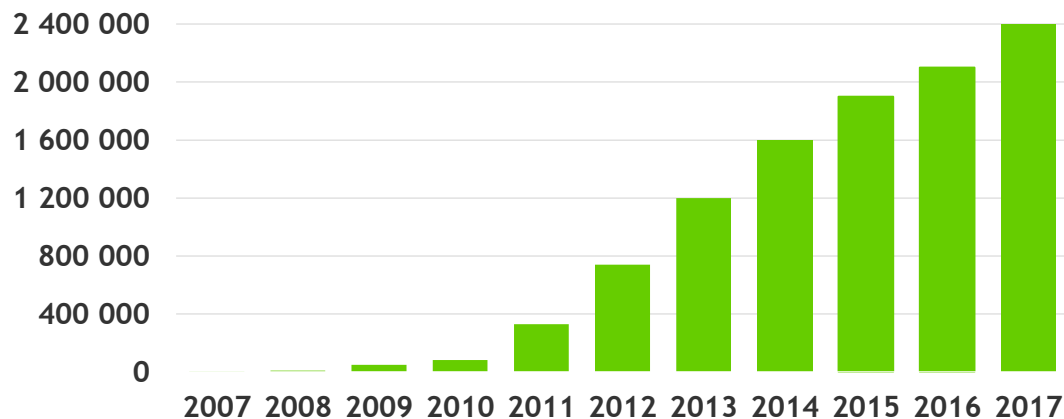
- Neste's partnership with IKEA provides the basis for future production of renewable, bio-based materials utilizing Neste's renewable solutions in polymer production.

Flexibility - Building a global sustainable feedstock pool

All our feedstock comply with EU RED and/or US EPA / CARB sustainability requirements



Significant
increase in waste
and residue use
(ton/a)



Expanding the feedstock portfolio further

Short term

Long term



Waste animal fats,
waste oils, residue and
side streams



Biological
pathways



Thermo-catalytic
pathways

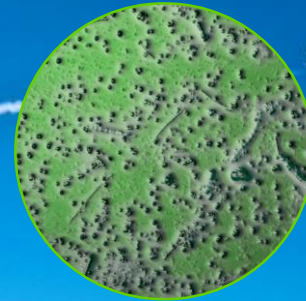
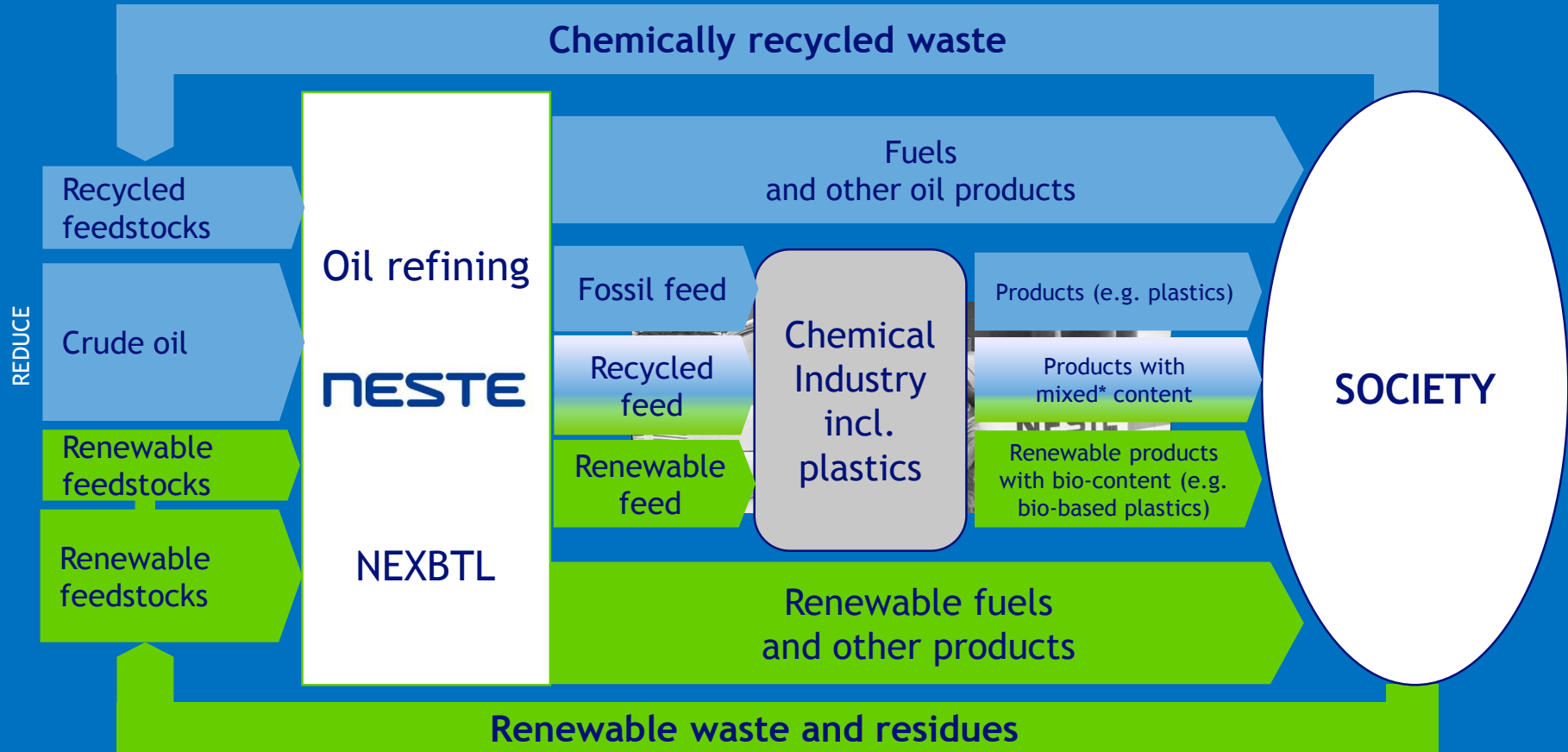


Photo-
synthesis



Fossil waste
liquefaction

Neste - growing through bio- and circular economy

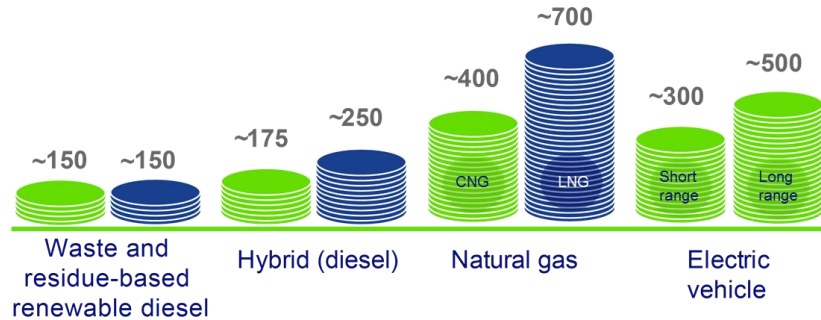


*Any mix of fossil, recycled and renewable feeds.

The role of our solutions in the bigger picture

Cost efficiency

Average cost to society (EUR) to reduce 1 ton of CO₂ emissions in passenger cars and heavy duty vehicles



Notes: CNG = compressed natural gas; LNG = liquefied natural gas. Data shown here reflect the median of the cost range and refer to situation in 2030. Oil price range of 70-113 USD/bbl. Expected 2030 cost for alternative powertrains. Includes required investments into infrastructure. EU average projected power mix (IEA).

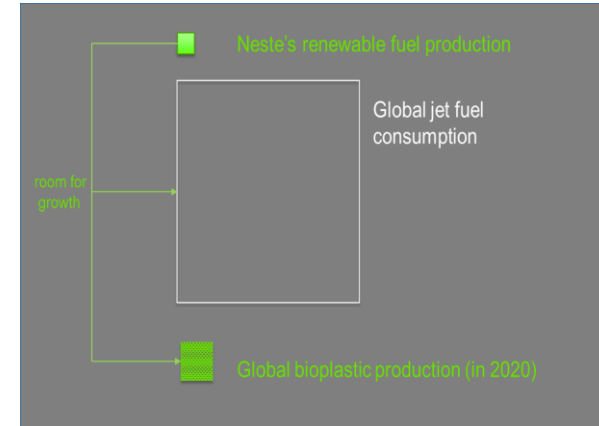
Source: Neste based on Roland Berger, *Integrated Fuels and Vehicles Roadmap to 2030*, 2016

■ Heavy duty vehicle
■ Passenger car

Timing



Growth potential





OUR VISION

Creating
responsible
choices
every day

NESTE

The only way is forward