"Growth through Innovation: Case Neste"

Dr. Lars Peter Lindfors and Team

"The ERIC and SHEILA SAMSON PRIME MINISTER'S PRIZE FOR INNOVATION IN ALTERNATIVE FUELS FOR TRANSPORTATION"

NESTE

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

- Neste's renewable fuel production
- 3 million electric cars, globally



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Global jet fuel consumption



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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!
- Technological innovations are needed in areas such as energy efficiency improvements,
 renewable transportation, bioeconomy as a whole and development of the circular economy.







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



Neste's proprietary Renewable Diesel (NEXBTL) process

Feeds in:

Lipids; mono-, diand triglycerides

- Used cooking oil
- Animal fat
- Residual streams from vegetable oil industry
- Algae oil (R&D phase)

Pretreatment Units

- Turning the feedstock into pure glycerides by various pretreatment steps
- Removing

 e.g. metals,
 phosphorous and
 plastic waste

NEXBTL Process Units

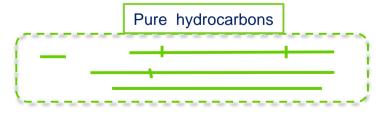
- Hydrotreatment and Deoxygenation
 → Removing nitrogen and oxygen
- Isomerization
 → Creating the final product quality, optimizing e.g.
 the cold properties

Neste Renewable Diesel (MY Diesel)

- Can be used to 100% in any diesel engine
- Can be blended without limitations
- No 'best before' date
- Fully compatible with existing infrastructure
- A solution for improving local air quality
- Offers up to 90% CO₂ reduction compared to fossil diesel
- Superior energy efficiency (aliphatic hydrocarbons)











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.

Responsible choices in the air:

Cleaner flights

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

Responsible choices at home:

Redefining the future of plastics

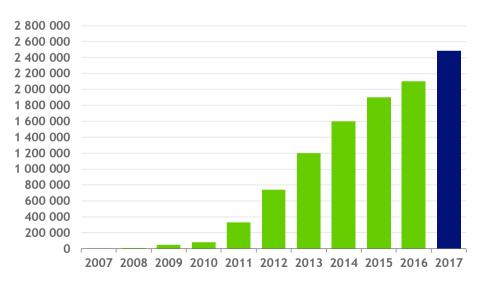
 Neste's partnership with IKEA provides the basis for future production of renewable, bio-based materials utilizing Neste's renewable solutions in polymer production.



What next?

Expanding our feedstock and technology portfolio – and our customer base by building on solutions within the bio economy and the circular economy

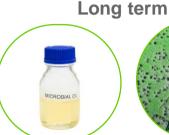
Waste and residue feedstock use so far (tonnes)



Short term



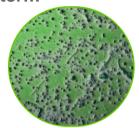
Waste animal fats. used cooking oils, residue and side streams



Biological pathways



Thermo-catalytic pathways



Photosynthesis



Fossil waste liquefaction



Accelerating circular economy and strengthening bio economy

