



Neste Renewable Jet Fuel

DOE Bioenergy Technologies Office
Alternative Aviation Fuel Workshop
Macon, Georgia
14 September, 2016

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Neste in brief

5,000
employees
in 15 countries

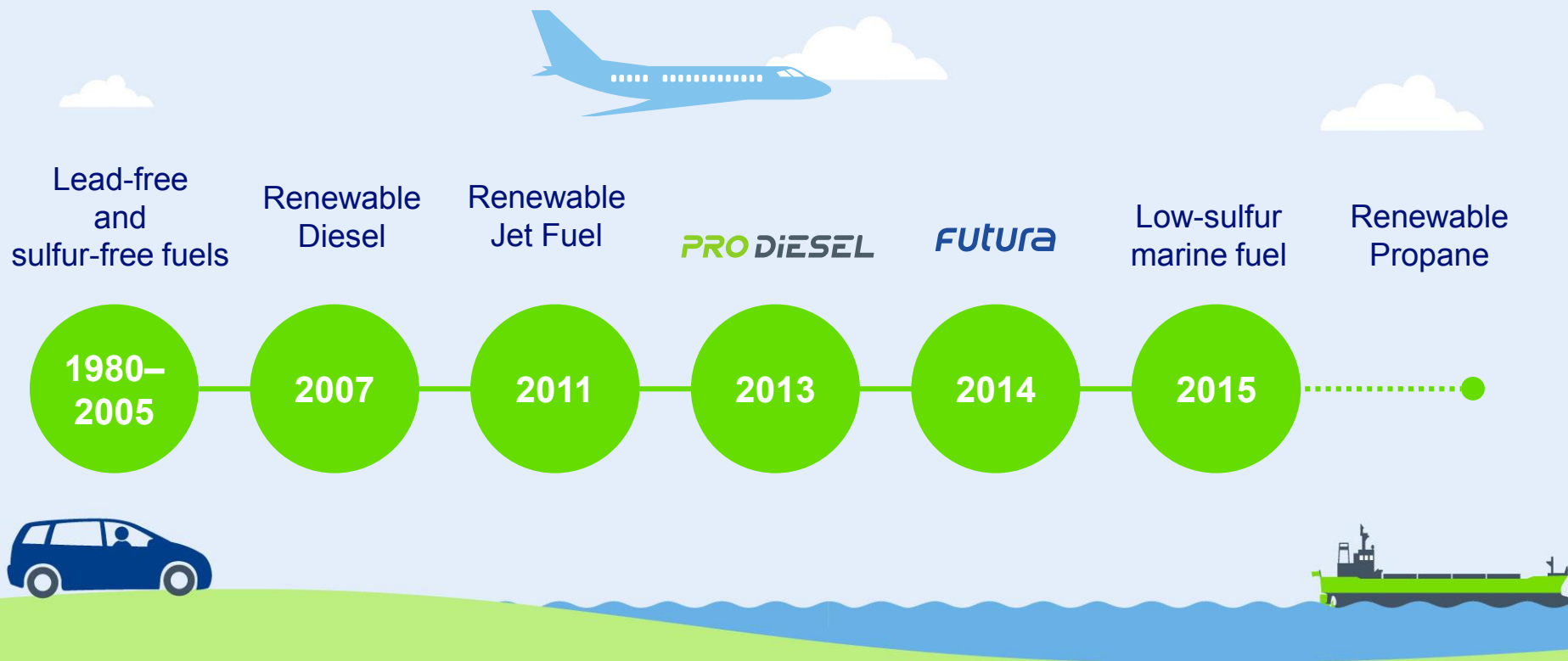
Revenue
€ 11 billion
Comparable
operating profit
€ 925 million

Refining capacity:
260,000 bpd of
petroleum products
54,000 bpd of
renewable diesel

6th place
in the Global 100
list of the world's
most sustainable
companies

Refining and
marketing company
focused on
low-emission, high-
quality traffic fuels

Neste is passionate about cleaner fuels



Neste is a world leader and pioneer in renewable diesel



- Neste Renewable Diesel is developed and patented by Neste
- Annual production capacity 2.4 million tons = 815 million gallons
- 100% renewable, versatile and sustainable raw material base
- Renewable diesel meets diesel specifications including ASTM D975 and CARB diesel specifications
- No blend wall; can be used neat
- Being used neat by consumers and public and private fleets

The case for renewable jet fuel

- 
- Aviation is a significant source of GHG emissions
 - US aircraft GHG emissions are 11% of all transportation emissions
 - The aviation industry will continue to grow
 - Air traffic is expected to double in 15 years
 - The industry realizes that continued growth must be sustainable
 - Benefits include license to grow, improved brand image, incentives,
 - Airlines and OEMs are pulling all levers to lower their carbon and emission footprint
 - Improvements in aircraft technology, operations, air traffic management
 - Renewable jet fuel must be part of the solution
 - Renewable jet fuel must receive similar incentives as renewable diesel in order to be incentivize production and use

An aerial view from an airplane window showing a coastline with a blue sea and green land. The wing and engine of the airplane are visible in the foreground.

Neste Renewable Jet Fuel

- ✓ Offers airlines an easy way to lower their carbon footprint and cut their emissions
- ✓ Meets ASTM D7566 specification
- ✓ High energy density
- ✓ Already available at scale
 - ✓ Over a thousand commercial flights on Lufthansa
 - ✓ Introduced to Oslo airport for ITAKA project

Proven high-level performance since 2011

Demonstrated on over 1,000 Lufthansa flights

1,187

Lufthansa flights

**1 600
tons**

of Neste renewable
jet fuel blend
consumed
(50% blend)

**1500
tons**

reduction in CO₂
emissions

“Our burnFAIR project went off smoothly and to our fullest satisfaction. As expected, the biofuel proved its worth in daily flight operations.”

Joachim Buse

Vice President Aviation Biofuel at Lufthansa

In January 2016, Oslo Airport offered Neste Renewable Jet Fuel via the hydrant system



- Neste has produced renewable jet fuel to be used by airlines Lufthansa, KLM and SAS at Oslo airport
- The fuel is transferred to Oslo as a 50% blend with conventional jet fuel
- For the first time, the distribution takes place via the airport's existing distribution system (hydrant)
- The fuel was produced in Porvoo, Finland, as part of the EU-funded ITAKA* project
- The feedstock is 100% certified camelina oil

* <http://www.itaka-project.eu/default.aspx>

The next development of HEFA: HEFA+ renewable jet fuel should accelerate use



“The airplane performed as designed with the green diesel blend, just as it does with conventional jet fuel. This is exactly what we want to see in flight tests with a new type of fuel.”

Captain Mike Carriker, Chief Pilot Boeing Product Development and 777X describing test flight with 15% HEFA+ supplied by Neste.

December 2014

- HEFA+ renewable jet fuel is a potential game changer
- Supply should increase as more efficient to produce
- Will be used at lower blend levels: likely max 15% HEFA+ vs. max 50% HEFA.
- Boeing is leading the effort to amend ASTM 7566 Annex II to include HEFA+ specification
- Neste is supporting with supply of fuel and testing
- Research report will be issued in Fall 2016

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Thank you!

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