

Neste Renewable Diesel

Neste Renewable Diesel – The highest-quality diesel in the world



High-performing low-carbon biofuel

Neste developed Neste Renewable Diesel, a low-carbon biofuel, in order to help its customers reduce their carbon footprint. Neste Renewable Diesel, produced from 100% renewable raw materials, offers an easy way to lower traffic emissions and increase the proportion of renewable energy used in transport.

When we call Neste Renewable Diesel a premium-quality fuel, we are not just comparing it to other bio-alternatives. It outperforms conventional biodiesel as well as conventional fossil diesel in terms of engine performance and environmental impact.

Suitable for all diesel engines

Neste Renewable Diesel meets the toughest requirements set by automotive manufacturers. It is fully compatible with all modern diesel engines in cars, buses, trucks, and non-road machinery. In addition, Neste Renewable Diesel is seamlessly compatible with the existing distribution infrastructure.



Significantly reduced emissions

Using Neste Renewable Diesel produced from 100% renewable raw materials can achieve up to 90% reduction in greenhouse gas emissions over its lifecycle compared to conventional fossil diesel. Additionally, it can reduce levels of local emissions. Thanks to the positive contribution to improving urban air quality, it is an excellent alternative for powering city buses, for example.

From renewable diesel to renewable chemicals

Our proprietary NEXBTL technology offers interesting opportunities also outside the traffic fuel segment. Neste Renewable Diesel can replace fossil raw materials in the chemical industry applications, for instance, in the production of renewable solvents and renewable plastics. Renewable solvents are a more environmentally friendly option to be used in the production of paints, glues, detergents, and cosmetics.

Neste renewable products

- Neste is a pioneer and world leader in renewable fuels.
- We are the world's largest producer of renewable diesel from wastes and residues.
- As a drop-in biofuel, Neste Renewable Diesel behaves exactly like conventional fossil diesel.
- Neste Renewable Diesel is 100% renewable and sustainable.
- Neste Renewable Diesel offers up to 90% smaller greenhouse gas emissions compared to conventional fossil diesel.
- Our sustainable operations have received recognition, and we have been included in the Dow Jones Sustainability World Index and the Global 100 list of the world's most sustainable companies, among others.

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NESTE
The only way is forward

Neste – World leader in renewable Fuels

Neste is a pioneer in oil refining and renewable solutions. We provide our customers with premium-quality products for cleaner traffic and industrial use based on world-class research.

We are also the world's leading producer of renewable diesel, and our annual production capacity is more than 2.4 million metric tons. We are also the world's largest producer of renewable fuels from waste and residues. We see interesting growth opportunities also outside the fuel market.

Our flagship product, Neste Renewable Diesel, is being used by several major city fleets, such as San Francisco and Oakland in the United States, as well as major corporations such as Google and UPS.

The fuel has moved service trucks and snow tractors in Marcialonga ski race in the Italian Alps, powered a race car team to win FIA Alternative Energies Cup in 24-hour race at the Nürburgring in 2015, and successfully functioned in marine vessels, for example Oslo ferries in Norway.

While the ground fleet at selected airports in Sweden and Germany have been fueled by Neste Renewable Diesel, both Lufthansa and KLM have used Neste Renewable Jet Fuel on regular passenger flights. Oslo Airport Gardermoen is the world's first airport to offer the fuel for all airlines to use.



“Our truck drivers are proud to reduce our environmental impacts where we operate. We have tried a number of alternative renewable fuels and are incredibly pleased with Neste Renewable Diesel, and can highly recommend to others that they, too, get started.”

MARTIN SVEDIN, CEO OF SVEBOL LOGISTICS, SWEDEN

“We are extremely pleased with the completed tests. We have not experienced any problems with our airport ground fleet despite the severe winter conditions that we have in Kiruna and Bromma. One of our main goals is to become fossil-free by 2020, and fuels like Neste Renewable Diesel can absolutely be a part of the solution.”

YVONNE BJÖRNSTRÖM, DIRECTOR, SWEDAVIA FLEET, SWEDEN

“Our municipal fleet has been running on renewable diesel for some time now. The best news is that we've seen no difference between traditional diesel and renewable diesel. From a performance standpoint, that's a win. And for the environment, it's even more of a win. We're reducing emissions and cleaning our air with a simple change in the type of fuel we use.”

DEBORAH RAPHAEL, DIRECTOR, SAN FRANCISCO DEPARTMENT OF THE ENVIRONMENT

“Neste's global production of a renewable “drop-in” fuel at commercial scale is a significant achievement. We also really admire Neste's work to utilize a wide variety of sustainable feedstocks to produce renewable diesel.”

MIKE WHITLATCH, VICE PRESIDENT ENERGY AND PROCUREMENT AT UPS

“The first commercial long-term use of aviation biofuel with more than 1,000 consecutive flights demonstrated that Neste's renewable aviation fuel is ready for use in daily aircraft operation.”

JOACHIM BUSE, VICE PRESIDENT, BIOFUEL, LUFTHANSA

“The idea was born from strong will to be the first in Italy to put on the market a diesel produced from renewable sources, clean and environmentally friendly, characterized by high performance at low temperatures. This was the demand of our customers, for this reason we decided to cooperate with who really considers the environment a precious resource.”

ALDO LANCIA, TAMOIL ITALIA SUPPLY, LOGISTICS & WHOLESALERS MANAGER

Approx. **5,000** professionals in 15 countries

Neste shares listed on **NASDAQ Helsinki**

Net sales **EUR 11 Bn** in 2015

Neste Renewable Diesel cut carbon emissions by **6.4 million tons** in 2015

Already **75%** of our renewable raw materials are waste and residues

Production

Porvoo, Finland

- Refinery, premium-quality and cleaner traffic fuels, e.g. renewable diesel

Naantali, Finland

- Refinery, traffic fuels and special products (bitumen, solvents, small-engine gasoline)

Rotterdam, the Netherlands

- World's largest renewable diesel refinery

Singapore

- World's largest renewable diesel refinery alongside Rotterdam

Bahrain

- Base oil plant, Neste's stake in the joint venture plant is 45%

Sales

- Beringen, Belgium
- Dubai, United Arab Emirates
- Geneva, Switzerland
- Houston, United States
- Riga, Latvia
- Singapore
- Stockholm, Sweden
- St. Petersburg, Russia
- Tallinn, Estonia
- Toronto, Canada
- Vilnius, Lithuania
- 7 sales offices in Finland

Service station network

- Finland
- Northwest Russia
- Estonia
- Latvia
- Lithuania



Neste Renewable Diesel in a nutshell

100% renewable and sustainable
Produced from waste fats, residues, and vegetable oils, classified as Hydrotreated Vegetable Oil (HVO).

Smaller environmental footprint
Reduces greenhouse gas emissions by up to 90% in addition to sizable reductions in tailpipe emissions.

Easy to use
Fully compatible with the existing fuel distribution infrastructure, no additional investments needed.

Superior cold weather performance
Suitable for very cold weather conditions. Regardless of the raw material used, Neste guarantees its fuel will exceed domestic climate requirements to allow safe travels.

High performance
Together with a high cetane number of 75–95, the fuel ensures an efficient and clean combustion, and provides the vehicle with extra power compared to, e.g. traditional biodiesel (FAME).

Lower maintenance costs even compared to conventional fossil diesel
With Neste Renewable Diesel there is no need for extra maintenance. Other biofuels may increase the need for vehicle maintenance, e.g. through reduced oil change intervals.

No blending limit
Can be used as such, or in any blending ratio with conventional fossil diesel.

Excellent storage properties
Can be stored over long periods of time without deterioration in quality or water accumulation.

Pure hydrocarbon
Chemical composition equivalent to conventional fossil diesel.

Odorless
Sulphur-free, oxygen-free, and aromatics-free.