

# Renewable Fuels

## Reducing emissions of the existing fleet

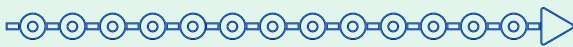


Mobility is changing. Sales of electric vehicles are accelerating, and hydrogen is taking its first steps. The composition of the vehicle fleet is changing, but a more comprehensive shift will take time. More sustainable solutions are also needed for vehicles that are already on the road today and in the foreseeable future.

## Road transport in Europe

The average age of the European fleet<sup>1</sup>

11.5 years



Passenger cars

11.6 years



Light goods vehicles

13 years



Medium and heavy goods vehicles

11.7 years



Buses

<sup>1</sup><https://www.acea.auto/figure/average-age-of-eu-vehicle-fleet-by-country/>

# An unequal landscape



The average age of vehicles varies a lot between European countries. The difference can be explained by average income levels, the number of company cars, as well as local taxes and incentives.

## Examples of the average age of fleets



### Passenger car Fleet



Romania

**16.5 years**



Austria

**8.3 years**



### Light goods vehicles



Spain

**13 years**



Germany

**8.1 years**



### Medium and heavy goods vehicles



Belgium

**15.8 years**



Austria

**6.4 years**



### Buses



Greece

**19.9 years**



Sweden

**6.6 years**

# Averages don't provide the Full picture



Let's take a closer look at the older fleets in different European countries.

## There are many older cars within the European Fleets

	 Vehicle Fleet	 Vehicles older than 10 years	 Percentage of vehicles older than 10 years
 Poland	<b>24,360,166</b>	<b>19,530,394</b>	<b>80%</b>
 Romania	<b>7,274,728</b>	<b>5,812,225</b>	<b>80%</b>
 Lithuania	<b>1,285,743</b>	<b>1,006,507</b>	<b>78%</b>

## In many Member States, a high proportion of medium and heavy goods are 10 years or older

 Greece	<b>226,913</b>	<b>222,374</b>	<b>97%</b>
 Estonia	<b>39,848</b>	<b>30,199</b>	<b>75%</b>
 Italy	<b>946,393</b>	<b>720,286</b>	<b>76%</b>

# A substantial percentage of vehicles are more than 15 years old



Within the category of older vehicles; many are **more than 15 or 20 years old**. For example, in Belgium, a substantial percentage of vehicles are over 17 years old<sup>2</sup>, despite having one of the youngest average fleets.



Even assuming greater uptake of electric and hydrogen-powered vehicles, a substantial part of the vehicle fleet **will still be powered by internal combustion engines in 2030 and beyond**.



For example, according to a European Commission Impact Assessment Study<sup>3</sup>



More than 75% of passenger cars will be **diesel or gasoline-powered in 2030**



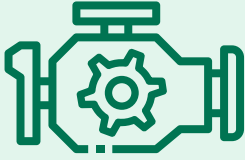
80% or more of all light goods vehicles will be **diesel-powered in 2030**



90% of all heavy goods vehicles will be **diesel-powered or diesel hybrids in 2030**, and 35-40% of all heavy goods vehicles will be **diesel-powered or diesel hybrids in 2050**

<sup>2</sup><https://statbel.fgov.be/en/themes/mobility/traffic/vehicle-stock>  
<sup>3</sup>[https://ec.europa.eu/clima/sites/clima/files/eu-climate-action/docs/impact\\_part2\\_en.pdf](https://ec.europa.eu/clima/sites/clima/files/eu-climate-action/docs/impact_part2_en.pdf)

# Why we need sustainable Fuels post-2040



In 2030, the vast majority of vehicles will continue being **powered by internal combustion engines**



The **average age of vehicles is increasing<sup>4</sup>**, and this trend is likely to continue

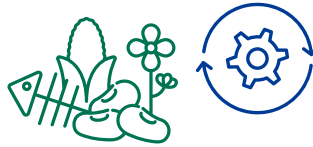


The majority of the EU fleet in 2040 and a part of the fleet in 2050 will be **diesel- or gasoline-powered**, particularly for heavy goods vehicles

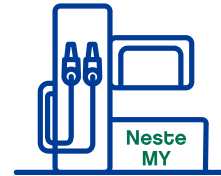
## Advantages of Neste MY Renewable Diesel™



**Proven technology**



**Availability of sustainable raw materials**



**No new infrastructure needed**



**Up to 90%\* reduction**

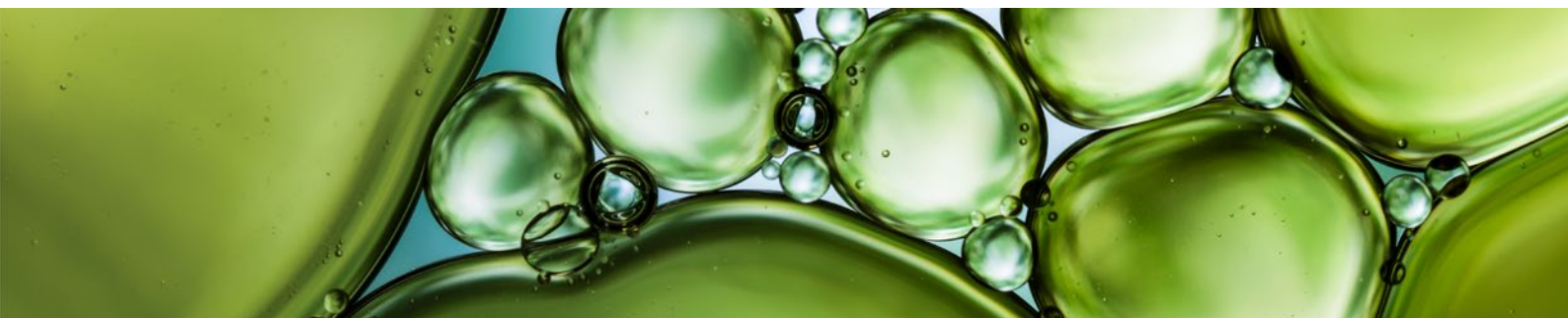
in GHG emissions over the life cycle of the Fuel compared to Fossil diesel.



**Large-scale production**



**Available now**



<sup>4</sup><https://www.eea.europa.eu/data-and-maps/indicators/average-age-of-the-vehicle-fleet/average-age-of-the-vehicle-8t>  
\*Calculation method: EU Renewable Energy Directive II (2018/2001/EU)