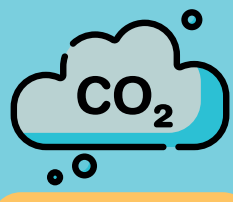
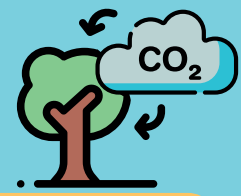
The European Green Deal

In the Fast Lane with Biomethane in Transport



15 Mt CO_2 avoided in 2030

Total EU production capacity of >1 200 TWh



CO_2 reduction equivalent to 755 million trees

Up to 1 million jobs in Europe

More than 4.5 billion € fuel cost saving per year

NGVA Europe

EBA European Biogas Association

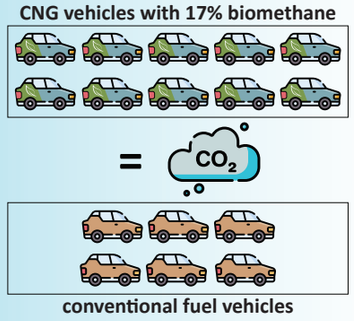
Renewable gas: how to quickly reduce CO_2 in the transport sector

NATURAL GAS TECHNOLOGIES ARE FULLY COMPATIBLE WITH BIO AND SYNTHETIC METHANE, THUS ALLOWING FOR A COST-EFFECTIVE AND FLEXIBLE SYSTEM, CAPABLE OF INCLUDING A GROWING RATE OF RENEWABLES.

2020

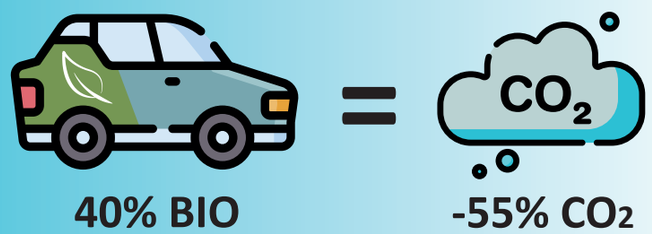
In 2020, European natural gas vehicles (NGVs) use a fuel blend, already including more than 17% biomethane.

Together with an already 20% emissions reduction measured at the tailpipe, this biomethane share results in a 35% reduction at fuel & vehicle level when compared to conventional fuels.



By 2030, 40% biomethane will be available to power the entire NGV fleet which is currently estimated to be more than 13 million vehicles.

This will result in an overall GHG emissions reduction of 55%.



2030

In 2030, the European fleet of about **13.2 million gas vehicles** will save **15 megatons of CO_2** which is equivalent to:

Planting
755 million
trees

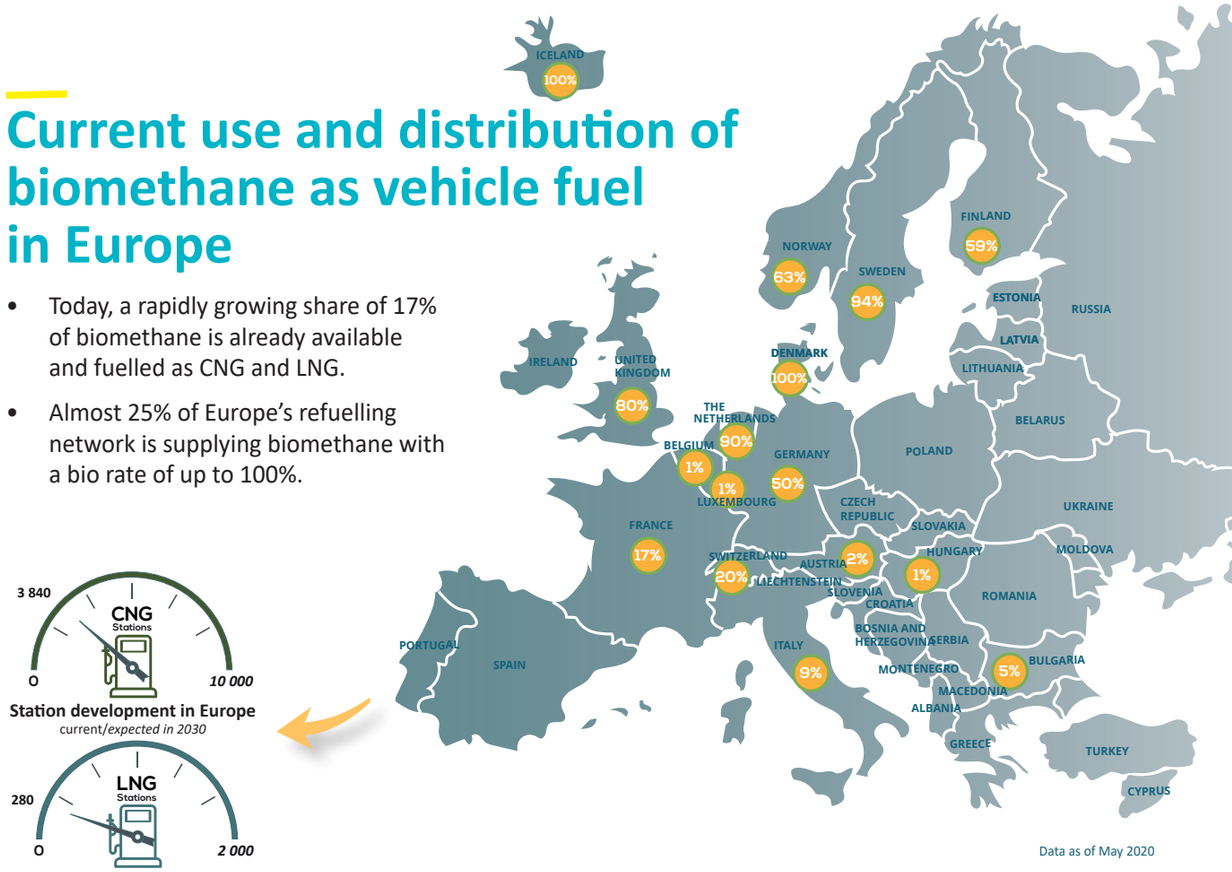
Driving
- 8 380 km
less compared to a gasoline vehicle

Flying
3.2 million x
around the world

CO_2 of a city with
2.1 million
inhabitants

Current use and distribution of biomethane as vehicle fuel in Europe

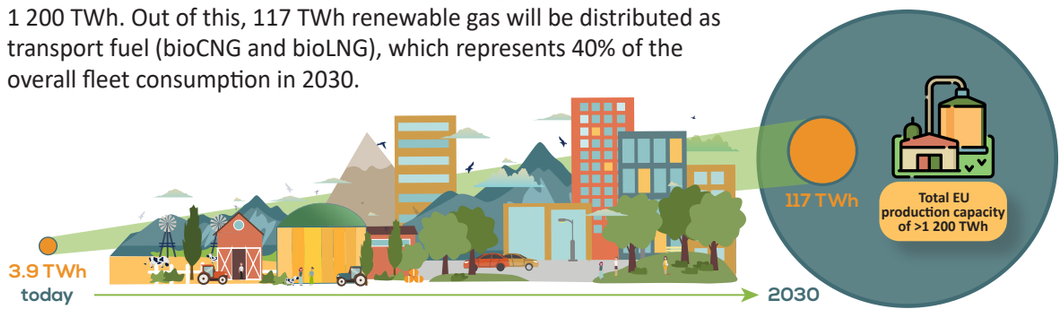
- Today, a rapidly growing share of 17% of biomethane is already available and fuelled as CNG and LNG.
- Almost 25% of Europe's refuelling network is supplying biomethane with a bio rate of up to 100%.

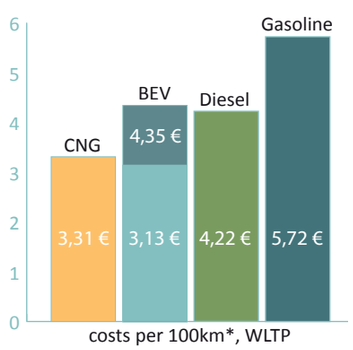


Data as of May 2020

How much renewable gas for transport?

From today's production of 22 TWh renewable gas, Europe has a potential of 1 200 TWh. Out of this, 117 TWh renewable gas will be distributed as transport fuel (bioCNG and bioLNG), which represents 40% of the overall fleet consumption in 2030.





Fuel operation costs

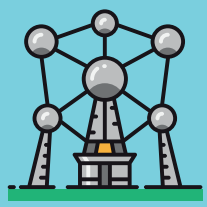
When fuelling vehicles with CNG or LNG, consumers benefit from huge fuel operation cost savings:

Europe's 2030 estimated natural gas vehicle fleet of about 13 million vehicles would result in a yearly fuel cost saving of more than 4.5 billion Euros, compared to conventional fuels.

More than 4.5 billion € fuel cost saving per year

*CNG/kg: 1,06€, Gasoline/L: 1,21€, Diesel/L: 1,13€, kWh home/fast charging: 0,22/0,30€

The added value of a locally produced clean fuel: the potential for a city like Brussels



1.2 million inhabitants

A city like Brussels, with 1.2 million inhabitants, produces about 210 kt of biowaste per year.

173 kg biowaste per inhabitant every year

This biowaste is transformed to produce 14 kt of renewable gas per year.

Air Quality

-55% CO_2

75 000 vehicles driving with 40% biomethane

This vehicle fleet would enable a 55% CO_2 reduction which is equivalent to 85 kt of CO_2 avoided in a city like Brussels.

Biomethane production

If distributed to road transport as 40% blend, a fleet of 75 000 vehicles could be fuelled.

NGVA Europe
Natural & bio Gas Vehicle Association
Rue d'Arlon 80
B - 1040 Brussels
www.ngva.eu

EBA European Biogas Association
European Biogas Association
Renewable Energy House
Rue d'Arlon 63-65
B – 1040 Brussels
www.europeanbiogas.eu