

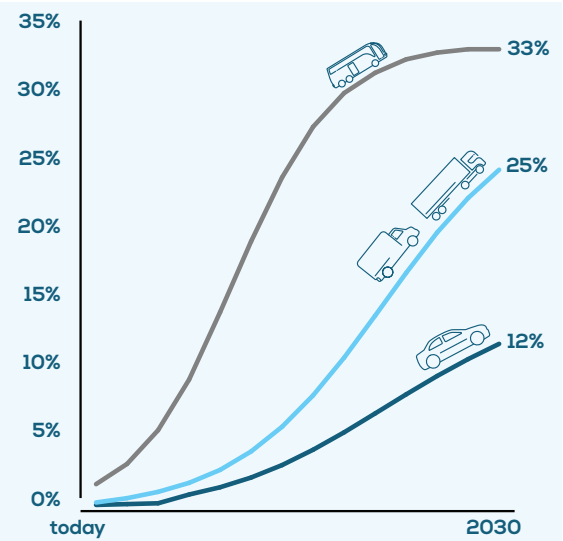


g-mobility: Driving Circular Economy in Transport

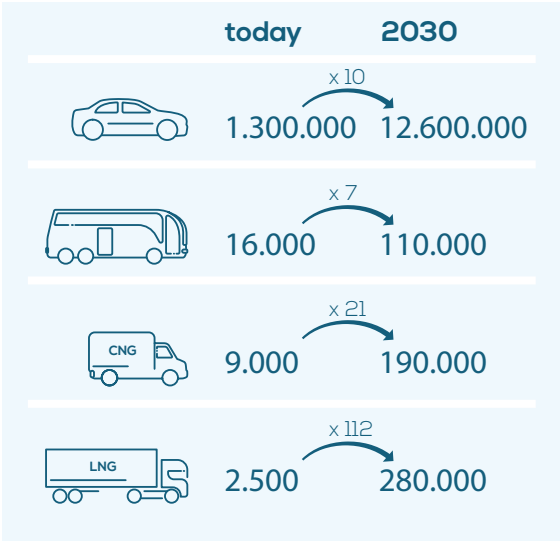
Unveiling the benefits of gas in transport by presenting our vision and illustrating our EU roadmap for a sustainable future through **g-mobility**.

Climate change and air quality are among the greatest challenges in our society. The transport sector has to go through a deep transformation in the next decades. Natural gas and especially renewable gas represent a **concrete answer** to these challenges: it helps to accelerate the **circular economy** model, where sustainable biomass is recycled and transformed into clean transportation fuel.

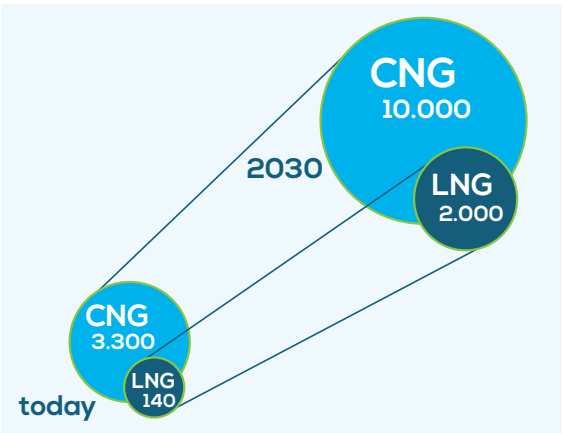
 **Market share natural gas vehicles in Europe**



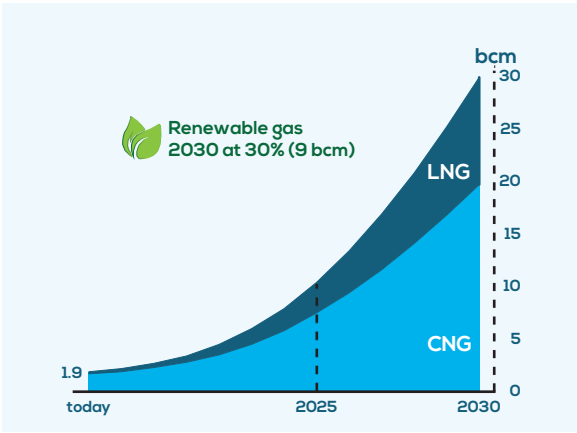
 **Natural gas vehicles fleet development**



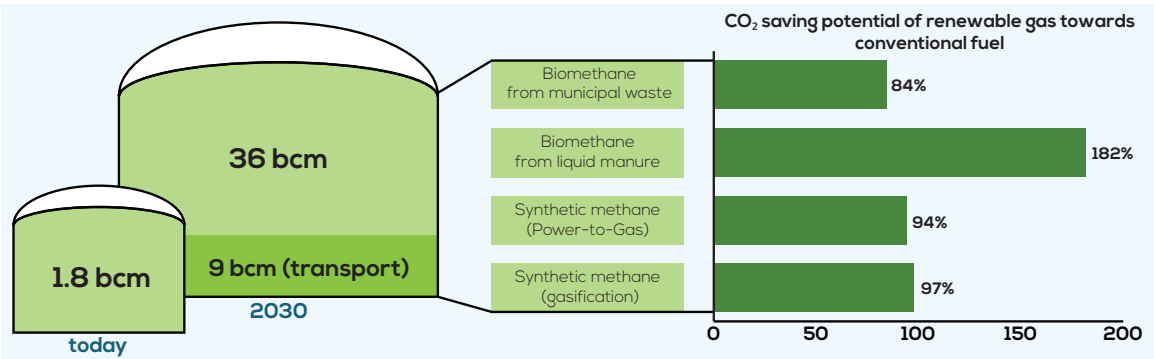
 **Stations**



 **Fuel demand**

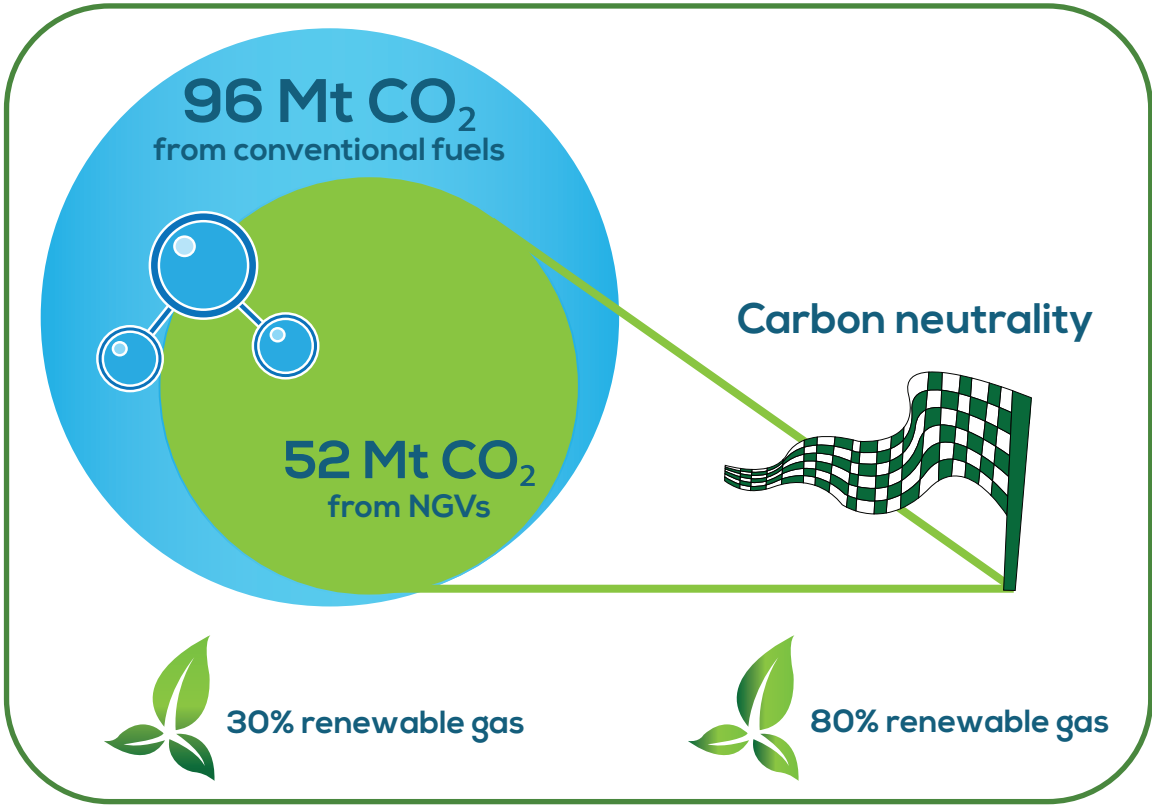
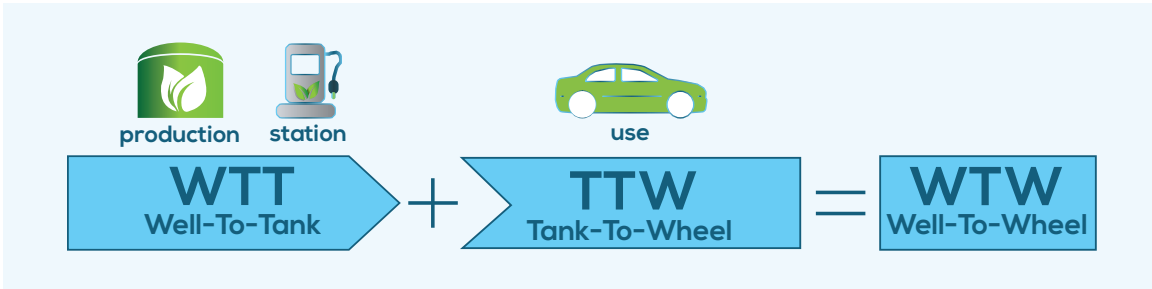


 **Renewable gas production / Greenhouse gas savings**







The production potential is estimated at 45 bcm in 2030, consisting of 19 bcm made from anaerobic digestion, 13 bcm from Power-to-Gas and 13 bcm made from gasification. Out of the total production, 9 bcm will be used in transport. **Renewable gas** is the result of a **local fuel production** which supports the **local economy and employment**. At the same time, production of **sustainable fertilizers** will enable the **recycling of nutrients**.

Climate change can be mitigated through the decarbonization of the transport sector. This process needs to be assessed by considering the Well-to-Wheel (WTW) greenhouse gas (GHG) emissions, a combination of the fuel production and distribution (WTT), as well as the emissions generated during the fuel combustion on the vehicles (TTW). Under this perspective, **renewable gas is a strong accelerator to carbon neutral mobility**.



By switching 13.2 million conventional to natural gas vehicles, WTW GHG emissions will be reduced from 96 Mt down to 52 Mt given 30% renewable gas in the EU mix. When using 80% renewable gas, carbon neutrality can be realized.

-  With g-mobility, **carbon neutrality** and **increasing air quality** are possible
-  In many countries in Europe, **renewable gas production is already standard practice**. It will be more and more available in the future to support the decarbonisation.
-  **g-mobility** is a key player for **transport decarbonization** and **improving air quality**. Renewable gas is fully **compatible** with current natural gas technologies: blending can be made in any proportion and without any impact on vehicles and infrastructure.





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How can policy be a true enabler of
#CircularEconomy and #decarbonisation?




Natural gas, together with increasing amounts of renewable gas, is a fundamental player in a **low-carbon future**: clean combustion, low carbon dioxide (CO₂) emissions, technology maturity, availability and competitive fuel cost are key factors to boost its role.

Available today


Clean cities


Carbon neutral mobility


Low costs


Through **Compressed Natural Gas (CNG)** and **Liquefied Natural Gas (LNG)**, a complete range of applications can be supported, from small city cars up to long-haulage trucks, as well as in the maritime sector.

