

Natural gas in the transport sector



Natural gas can make the transport transition a success and can already be used in **cars, trucks and ships** today. Unlike conventional fuels, natural gas **causes almost no particulate matter and significantly fewer CO₂ emissions**. In addition, biomethane from renewable raw materials can also be used as a fuel. This would reduce the total greenhouse gas emissions of vehicles by up to 97 percent.

Natural gas cars reduce emissions

 Petrol



CO₂*

 NATURAL GAS



Fine dust matter**



Nitric oxide (NO₂)***

 Diesel



CO₂*

 NATURAL GAS



Fine dust**



Nitric oxide (NO₂)***

Comparison based on actually measured real emissions from petrol- and diesel-driven vehicles with emission standard Euro 6.

Source: * Taking into account the current 20% biomethane content (see 3rd Interim Report from the dena Natural Gas Mobility Initiative, 2015)

** Number of particles according to ADAC EcoTest 2017

*** ADAC EcoTest 2017, Empa 2017

” **Natural gas vehicles can resolve the stagnating climate protection in the transport sector. The technology is available now. Natural gas vehicles emit 35 percent less CO₂ than petrol-driven cars.**“



Mario Mehren, CEO Wintershall

Practical example:
Shipping



Michael Wessels / AIDA

Around **50,000 commercial ships** carry 90 percent of the global goods traffic. There are approximately **6,500 passenger ships** worldwide, of which around **300 are cruise ships**. Today about 200 ships worldwide can be operated with LNG. That means: **99.5 percent of the ships still use heavy fuel oil or maritime diesel.***

The **world's first LNG-powered cruise ship, AIDAnova**, set sail in December 2018. It is the first of seven planned new cruise ships that can fully run on low-emission liquefied natural gas (LNG).

The French container shipping company **CMA CGM** - number three in the world market - is currently **building nine huge container ships that will run on liquefied natural gas (LNG)**. This will therefore be the first time that large container ships with a load capacity of 22,000 standard shipping containers (TEU) are operated with the environmentally friendlier LNG compared with conventional marine fuels.

At a glance:

- -30 % CO₂ and
- -80 % nitrogen oxide
- no sulphur dioxide
- no fine dust
- with LNG drive, ships sail much more quietly than with diesel

* Source: German Federal Environment Agency (Umweltbundesamt)

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