

Bio-LNG

On our way to a better climate

Significant reduction of CO₂
emission in the transport sector



Carborex[®]
LNG

Together in New Energy

COP21 has led to ambitious goals regarding fighting climate change. Politicians and policy makers have taken responsibility. For entrepreneurs it is time to take theirs too, time to invest in the right technology to achieve the climate targets. Production of Bio-LNG is such a technology. Digestion of organic matter like manure, household waste or industrial effluents can produce biogas, which can be upgraded and liquefied to Bio-LNG. This is more than a win-win situation: Bio-LNG will result in significant carbon footprint reduction and this clean energy is produced from waste. Waste turns into fuel. Transport fuel turns into money. Will you take the chance to be a frontrunner, implementing this technology in the world market together with DMT Environmental Technology? Please contact us for further information.

Let's be clear

From waste to transport fuel in three steps

The production of Bio-LNG (Biological Liquefied Natural Gas) is carried out in three steps. In an anaerobic digester the organic matter is converted into biogas. The upgrading of this biogas to high quality biomethane is step two. Finally, the gas is liquefied to -162 degrees Celsius.

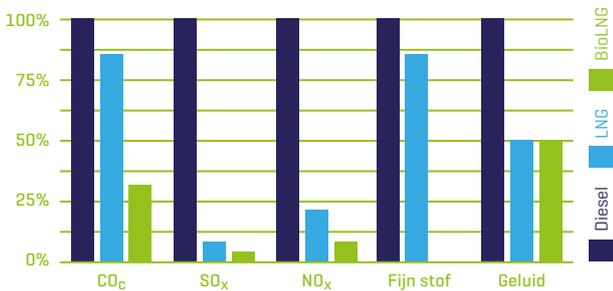
Easy distribution

Once liquefied, the volume of the gas has reduced at least 600 times. Therefore large amounts of biomethane can be distributed easily and this makes Bio-LNG a suitable fuel for heavy duty transport. Bio-LNG shows its potential for a significant CO₂ reduction through implementation in the transport sector. Through investing in this fuel the achievement of the climate goals will be at hand.

The best economical choice

From an economical point of view this technology is the best the industry has to offer: low investment cost and low operational cost. The installation runs 24 hours a day and can be remotely operated. The easy to operate installation guarantees a high uptime of 98%.

Diesel vs BioLNG:



Carborex[®]MS plant in Jevnaker, Norway. With this DMT plant biogas is upgraded to pure methane. More references you will find when you visit our website www.dmt-et.com/products. Here you will also find the animations "How does it work?"

The advantages of Bio-LNG:

- Bio-LNG has a higher methane number than LNG
- Fossil fuels are slowly running out
- Bio-LNG does not emit suit particles and NO_x and SO_x emissions are significantly reduced
- Bio-LNG can significantly reduce carbon footprint in transport sector (trucks and ships) and has a larger effect on the European 2020 targets than green gas for private vehicles
- Bio-LNG engines are more silent than Diesel engines, making Bio-LNG trucks suitable for use within cities
- WTW (well to wheel) CO₂ emissions can be reduced with more than 70%
- Climate targets can be achieved with the use of Bio-LNG

Our challenge
To create a clear
and prosperous future

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DMT Environmental Technology

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