

## Are E-Fuels a low cost alternative to Emobility? The benefits of synthetic fuel for a green future

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- ◆ E-Fuels use existing infrastructures
- ◆ E-Fuels can be used in combustion engines
- ◆ E-Fuels use renewable energy sources

A global increase in the temperature on our planet has been recorded since 1990. CO<sub>2</sub> and fine dust particles are preventing the heat rays from being discharged into space through the atmosphere. As a result, global warming is forcing the entire mobility and automotive industry to radically change. Goals have already been set by governments, however, their implementation remains unclear. So which path needs to be pursued to ensure a livable planet for our future generations?

At first glance bringing forward emobility seems to be the best solution, but can we be certain of maintaining our economic prosperity in this way? After all, approximately 70 percent of a combustion engine is made of components from the supply industry. The negative consequences for the labor market would therefore be inevitable. In addition, resources for battery production are scarce and the extraction of the rare metals required partly takes place under precarious working conditions.

However, there are other solutions which could be of value in saving CO<sub>2</sub> emissions. For instance, the manufacturing and process technologies used in automotive production are not fully exploited and the benefits of sustainably produced e-fuels are often underestimated. The electricity coming from renewable energies and the CO<sub>2</sub> from the ambient air is utilized for their production. The results of these modern manufacturing processes are synthetic fuels such as gasoline, diesel, gas or kerosene.

During combustion CO<sub>2</sub> is re-released making the vehicles which run on e-fuels nearly carbon neutral. Furthermore, renewable energy sources can be used for worldwide production, and their storage and transportation are also easy.

Current engines, which are designed for the use of synthetic fuels, or so-called e-fuels, could also use the existing infrastructure of the gas station network. They can be added to

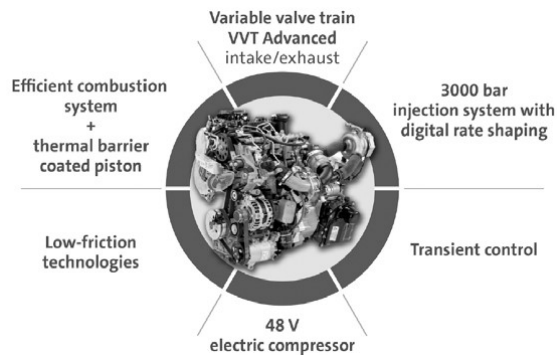
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conventional fuels allowing for an easy application and low investment costs. All of this will quickly contribute to a CO<sub>2</sub> reduction in the existing vehicle fleet.

E-fuels are indispensable for securing long-term mobility. Their flexible handling, high energy storage capacity and use of the existing supply infrastructure make them an essential pillar of a responsible energy policy.



Ref: Dr. Aiko Mork, et.al., CO<sub>2</sub>-Lighthouse Diesel Engine from Volkswagen Group Research, 27th Aachen Colloquium Automobile and Engine Technology, Germany, October 8-10, 2018

### About BIZOL

BIZOL is a German lubricant company manufacturing innovative and effective engine oils and aftermarket car care products. BIZOL was founded in 1998 and is currently operating in more than 65 countries. BIZOL is an example of a company using an effective business model serving partners with a 100% support from its headquarters in Berlin, Germany.

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