

## PRESS RELEASE

### **Joint venture: Storengy Deutschland and CM Fluids combine expertise to produce bio-LNG**

Berlin/ Rohrbach, 29 September 2022. Storengy Deutschland, a company of ENGIE Group, and CM Fluids, a start-up and biogas specialist from Bavaria, are establishing a joint venture. The aim of this partnership is to produce liquid biomethane (bio-LNG) for use as a climate-neutral fuel for buses and lorries.

#### **Construction of a liquefaction plant for producing bio-LNG**

The companies plan to build a bio-LNG liquefaction plant on the site of a biogas plant in the Nuremberg region. This biogas plant is fed with the remains of regional vegetable production, horse manure and grass mown at Nuremberg Airport. This renewably produced biogas shall be liquefied and processed to produce liquid bio-CH<sub>4</sub> (CH<sub>4</sub>: biomethane) and bio-CO<sub>2</sub>. The biomethane will ultimately be made available to customers in the transport sector for refuelling. About 700 tonnes of bio-LNG will be produced each year. This means that around 2,800 vehicles can be refuelled in a few minutes with a 250 kilogram tank filling. One tank filling corresponds to a range of up to 1,500 kilometres. The bio-CO<sub>2</sub> will be made available to prospective customers for use, for example, in industry.

#### **Using bio-LNG for climate-neutral transport**

The [German federal government](#) has set ambitious targets to make transport climate-friendly. Compared with 1990, CO<sub>2</sub> emissions in transport need to be reduced by 65 million tonnes by 2030. After the energy sector and industry, the transport sector is the third largest emitter of greenhouse gas emissions, with around 20 per cent of CO<sub>2</sub> emissions. Bio-LNG can make a significant contribution to achieving the climate targets. This is because vehicles powered by bio-LNG are completely CO<sub>2</sub>-neutral, environmentally friendly and economical. Compared with diesel buses, they emit up to 95 per cent less particulate matter and cause 50 per cent less noise. As part of the joint venture, the bio-LNG is produced regionally in a local biogas plant and achieves particularly high CO<sub>2</sub> savings. Since the bio-LNG is produced directly at the biogas plant and transport routes are thus avoided, the ecological footprint is particularly small.

#### **Accelerating the market ramp-up in Germany**

For Storengy Deutschland, this joint venture is an important step in consolidating its strategic focus in the renewable gases sector. More than 20 production sites for generating biomethane are already operated in France by the company's French subsidiary, Storengy SAS. This experience and expertise



will be used, together with CM Fluids, to drive the market ramp-up of bio-LNG in Germany. In line with the ENGIE Group's mission, this will accelerate the transition to climate neutrality for both the economy and society.

"We see considerable potential in using bio-LNG to decarbonise the transport sector and achieve the German government's climate protection goals," says **Daniel Mercer, Head of Business Development at Storengy Germany and Managing Director of the joint venture company**. "With this project, we first want to expand our market position and then develop it further along the biomethane value chain. Our first major goal is to produce 1.2 TWh of biomethane per year by 2030."

**Lena Friedmann, Head of Business Area at CM Fluids and Managing Director of the joint venture company**, is convinced that the partnership with Storengy Deutschland will be a success model and lay the foundation for many more joint liquefaction plants. "CM Fluids develops fruitful collaborations on an equal footing with operators of existing biogas plants, plans the facilities, obtains the permits and takes care of the product marketing as well as the operation of the plants. It's particularly in this broad field of activity that we're also hoping for support from our new partner – we're looking forward to working together."

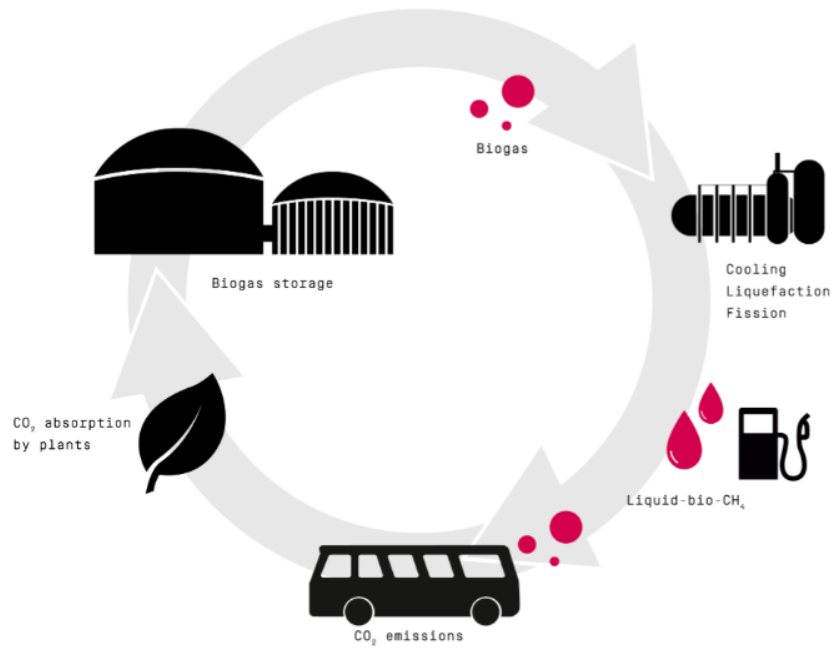
### **About Storengy**

Storengy Deutschland, a company of ENGIE Group, is one of the leading gas storage companies in Germany. With around 150 employees across Germany, we are a reliable partner for storage services: we plan, build and operate storage facilities and market their storage capacities. Our mission is to generate and store climate-neutral energy in order to sustainably supply tomorrow's generations. Therefore, we are developing innovative solutions for storing hydrogen and producing renewable gases. The company's headquarters are in Berlin.

### **About CM Fluids**

CM Fluids was founded to harness the unleashed potential offered by biogas. Since biogas, unlike wind and photovoltaic energy, can be excellently stored, it is perfectly suited after liquefaction for replacing diesel fuel in heavy goods vehicles. This is precisely where CM Fluids steps in, enabling biogas plant operators to operate profitable plants even after their subsidies have expired. The company's core segment focuses on planning and operating biogas liquefaction plants. A second business field is concerned with converting commercial vehicles with the company's CMF drive for generator-electric vehicles (GEVs). This generator-electric drive is supplied with power from a small buffer battery. It is only about one tenth the size of drives in "normal" electric buses, as it is charged from a charging station integrated in the vehicle, the motor-generator unit. With this patented drive, commercial vehicles can reach ranges of up to 800 kilometres – and of course they are fuelled with bio-LNG.

**Figure: Bio-LNG in an efficient and sustainable cycle**



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