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**Press release**

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# Storengy Chooses MAN Energy Solutions for Methanation Reactor to Produce Syngas at a French Wastewater Treatment Plant

## Conversion of hydrogen and carbon-dioxide into synthetic methane

MAN Energy Solutions is to provide a methanation unit for a wastewater treatment plant in Pau, France. A public call for tenders by the urban community of Pau Bearn, Pyrénées – related to the construction of a new sludge-treatment unit for a wastewater treatment plant – has been won by a temporary consortium of companies led by Suez Eau, France and including Storengy, Camborde Architectes, SOGEA/Vinci and EGIS Eau. The new unit will have two main functions:

- the treatment of sludge by anaerobic digestion, which produces a mixture of bio-methane and biogenic CO<sub>2</sub>
- the conversion of biogenic CO<sub>2</sub>, a co-product of the anaerobic digestion, along with renewable hydrogen into synthetic methane via power-to-methane.

Arnauld Filancia, President, MAN Energy Solutions France, said: “For MAN Energy Solutions, this project involves converting a mixture of biogenic CO<sub>2</sub> and green hydrogen into synthetic natural gas by catalytic methanation. The methanation unit makes it possible to increase the production capacity of the biogas plant by more than 50%. All of the bio-and synthetic methane produced will be injected into the gas network.”

Storengy has entrusted MAN Energy Solutions France with the engineering, supply, transport, installation and on-site commissioning of the methanation unit. The methanation unit will be constructed at MAN Energy Solutions’ site in Deggendorf, Germany, where the company’s competence center for complex reactor systems for synthetic fuel production is situated.

“MAN Energy Solutions offered the best technical solution and serious guarantees to carry out this project, which is why we chose this partner,” said Yan Figarol, Project Manager at Storengy.

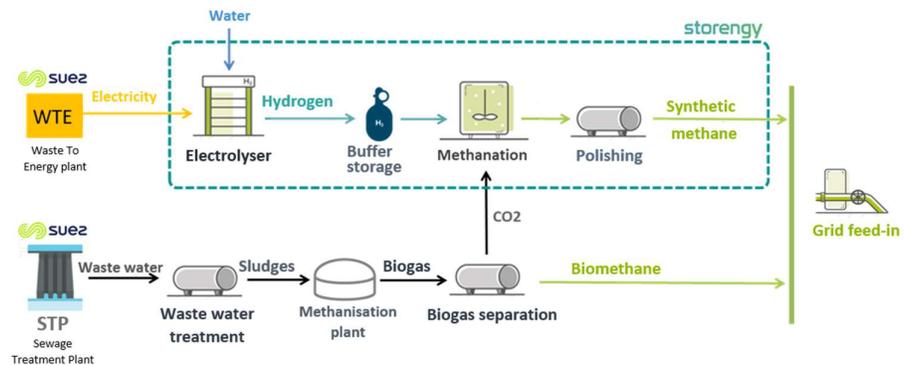
Arnauld Filancia concluded: “Everyone agrees that green hydrogen and power-to-X are effective solutions towards reducing our environmental footprint. We are delighted to have the opportunity to demonstrate that power-to-X is technically feasible and economically viable. This installation will perfectly meet major current and future climate challenges.”

### How the methanation works

The site's performance is increased by producing synthetic methane from the methanation of green hydrogen (H<sub>2</sub>) and carbon dioxide (CO<sub>2</sub>). The latter, a product of anaerobic digestion (methanisation), is usually released into the atmosphere. The innovative catalytic methanation technology – introduced by Storengy for a world-first on the industrial stage for such an installation – allows the transformation of all the CO<sub>2</sub> emitted into synthetic methane, a green renewable gas. This major technological breakthrough has a dual advantage: the additional production in the long-term of 4,400 MWh of synthetic methane per year, and an unparalleled carbon-neutral footprint.

The total bio- and synthetic methane produced by the site will, eventually, be 13,000 MWh per year – the energy equivalent of heating 1,200 homes.

### About the project



### About MAN Energy Solutions

MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our after-sales brand, MAN PrimeServ, offers a vast network of service centres to our customers all over the world.

### About Storengy

Storengy, a division of ENGIE, is one of the world leaders in natural gas underground storage. With 70 years of experience, Storengy designs, develops and operates storage facilities, and offers its customers innovative products. The company has 21 natural gas storage sites, totalling 136 TWh of capacity in France, Germany and the UK. Storengy is also a key player in renewable gas (bio-methane, hydrogen, synthetic gas). [www.storengy.com](http://www.storengy.com)