



## Pressemitteilung

Press release · Communiqué de presse

Vechta, December 2020

### French Biomethane Plant of WELTEC BIOPOWER Goes Live

#### 11-Million-Euro Project Welcomed by Population

**In November 2020, a biomethane plant of the German energy plant manufacturer WELTEC BIOPOWER went live in Papillonnière near the town of Vire in Normandie, France. The operator of the 11-million-euro project, which was rolled out by WELTEC and its project partner Agripower France, is Agrigaz Vire, a local company that comprises 40 operations along the agricultural value chain. The plant has created three permanent jobs and digests a yearly amount of about 70,000 t of substrates to biogas, which is then processed to biomethane.**

The raw material mix that comes from a radius of approximately seven km largely consists of inexpensive waste and other by-products from agriculture and the food industry. The regional, sustainable nature of the biomethane project is underlined by the fact that the operations belong to the agricultural company and the substrates come from the region. Two thirds of the 200 t of input substances needed every day consist of animal waste such as cattle and pig manure and liquid slurry. Whey, sludge and abattoir waste from food operations and from a pet food manufacturer belonging to Agrigaz account for another 20 percent. The rest of the substances is made up of maize, grass, whole plant silage, straw and grass silage.

The use of biomethane plays a key role in reducing greenhouse gases: Every hour, 270 standard m<sup>3</sup> of the green biomethane are fed into the public gas grid for use as an energy source or as alternative fuel throughout France. „With this amount, some 5,300 t of CO<sub>2</sub>e can be saved every year“, explains Alain Priser, who is in charge of WELTEC BIOPOWER’s business in France. „Used as a natural gas equivalent, the biomethane could cover as much as 20 percent of the gas demand of Vire (population: 18,500). In the mobility sector, this quantity would be sufficient for driving a climate-neutral distance of 35 million km by car or circling the equator 890 times every year“ says Alain Priser.

The solid input substances are introduced to the system with the help of two moving floor feeders (140 m<sup>3</sup> and 98 m<sup>3</sup>) and a vertical screw feeder (30 m<sup>3</sup>). Additionally, some of these substrates are shredded in two MULTIMix units and mixed to ensure optimum digestion. The liquid substrates are first buffered in seven upstream tanks. Following the hygienisation of some input substances, the substrates are transported to three 4,436-m<sup>3</sup> stainless-steel digesters. Two storage units are used solely for the purpose of storing the digestate for use as high-quality fertiliser by the agricultural company’s farmers. „Our farmers thus also benefit from this by-product in that they save chemical fertiliser. Ultimately, this too is a key to reducing greenhouse gases“, underlines Yves Lebaudy, the Managing Director of Agrigaz Vire.

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Organic energy worldwide

A rather exceptional heat concept is used in Vire: The biomethane plant is supplied with the exhaust heat from a pet food manufacturer located at a distance of only 500 m, whose production process delivers enough heat for the hygienisation procedure of the biogas plant. For this purpose, Agrigaz Vire has connected the two locations with a hot water pipe. Through the use of heat pumps, part of the energy from the exhaust heat can be recovered and used to produce heat at a higher temperature level. Thanks to this thermodynamic system consisting of 24 heat pumps with a capacity of 50 kW each, all substrates except for the regrowing raw materials can be treated for one hour at 70°C in three hygienisation tanks of 15 m<sup>3</sup> each. By contrast, the digesters do not need to be heated very much, as the hygienised input substances already have the temperature level required for the digestion process.

The sustainable cycle has resulted in a high level of acceptance by the entire population: „We are proud of our innovative joint project, which enjoys the backing of our farmers, politicians, entrepreneurs and residents alike“, says Yves Lebaudy. Especially the inhabitants of Vire are eager to participate. They can deposit their waste in a new recycling centre with waste handover docks. In this way, they are able to actively support the operation of the biomethane plant with their own raw material, thereby contributing to the success of the project as a whole.

### Pictures/Captions



*The WELTEC biomethane plant in Vire, France, has been running at full load since November 2020 and, with the generation of green energy, ensures CO<sub>2eq</sub> savings of 5,300 tons per year.*



*The technical equipment has been put together individually for the AD plant. Heat pumps (rear) ensure efficient use of waste heat and the MULTIMix (front left) shreds the substrates in advance.*

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### Company Portrait

The **WELTEC** Group from Vechta, Germany, has developed into a globally leading specialist for the construction and operation of biogas and biomethane plants since it was founded back in 2001. The Group designs, plans and sets up energy plants, operates them on a permanent or temporary basis, provides 24/7 service and delivers sustainable usage concepts for output flows, thereby covering the entire biogas value chain.

The establishment of individual, technically mature solutions up to a plant size of 10 MW is one of the strengths of **WELTEC BIOPOWER**. The high proportion of custom-developed components is a key success factor. Moreover, the use of stainless-steel technologies ensures flexible substrate input, quick and inexpensive assembly and a consistently high quality standard, regardless of the location. Following the commissioning, **WELTEC's** mechanical and biological service plays a significant role in ensuring the plant efficiency.

The company also boasts a wealth of experience in the field of biogas generation and utilisation. The company's nine decentralised plants generate 96 million standard m<sup>3</sup> of biogas a year. Most of it is processed to biomethane and made available to energy suppliers and petrol station operators via the public gas network. Additionally, at 16 locations in Germany – e.g. in the field of horticulture, housing construction and healthcare as well as communities – the biomethane is used for generating heat within the framework of **WELTEC** energy contracting.

The biogas specialist is well aware of the importance of customer and investor proximity. Accordingly, the Group's sales and service network spans the entire globe. The range of customers includes businesses from industries such as agriculture, food, waste and wastewater. So far, the 120 employees of the **WELTEC** Group have implemented more than 300 energy plants in 25 countries on five continents. These plants save about 485.000 tons of CO<sub>2eq</sub> a year.

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