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## HZI BioMethan: Initial Feed-In for Project Brie

*Acting as general contractor, Hitachi Zosen Inova BioMethan GmbH (HZI BioMethan) is constructing a digestion line with a biogas upgrading facility in Brie-Comte-Robert, France. The initial feed-in of biomethane into the network of Gaz Reseau Distribution France (GRDF) in March 2017 marked a key milestone for the project, which is now on the verge of completion.*

In addition to a digester system, the Brie project comprises a gas upgrading facility with membrane technology to deliver feed-in capacity of 130 Nm<sup>3</sup>/h of biomethane. The network operator's so called CRIGEN test was passed in March, with a one-week trial operation being followed by a three-week evaluation to analyze precisely whether the biomethane meets GRDF's high quality requirements. "The test is the network operator's prerequisite for the feed-in and decisive for the finishing work," stressed HZI BioMethan project manager Lars Kiaup. "Thanks to the performance of the HZI membrane technology with above-average CO<sub>2</sub> and methane selectivity, there were no issues." The initial feed-in of biomethane into the GRDF gas network thus took place even earlier than planned. The internal performance test run could subsequently begin at the end of March, with the parameters contractually agreed with the client being checked over a period of 72 hours. All that now remains for the project team to do is the final work and the handover to the client.

The concept behind the HZI biomethane facility is characterized by the flexibility it delivers in terms of upgrading capacity, producing an average of 130 Nm<sup>3</sup>/h. The operator plans to double this amount in a later phase of operations to 260 Nm<sup>3</sup>/h or 2.21 million Nm<sup>3</sup> of biomethane per year. HZI BioMethan has therefore already taken this possibility for expansion into account in constructing the plant.

Brie is part of an overall contract for plant construction in France, under which five further projects are currently being constructed or developed by HZI BioMethan.

[Plant: Biomethan-Ersteinspeisung Brie.jpg](#)

Picture Caption: Thanks to the high methane purity, the initial feed-in at Brie-Comte-Robert went smoothly (photo: HZI BioMethan)

### **About Hitachi Zosen Inova BioMethan:**

Hitachi Zosen Inova BioMethan GmbH (HZI BioMethan) is one of the leading providers of gas upgrading systems, delivering its solutions with two processes for separating CO<sub>2</sub> from the biogas or flue gases.

The company was founded in spring 2015 as the result of an asset deal to acquire MT-BioMethan GmbH, one of the pioneers in the field of biomethane production through CO<sub>2</sub> separation and gas feed-in. HZI BioMethan combines its expertise with many years of practical experience in numerous reference projects across Europe. The company is part of the HZI Group, rounding out the latter's biological waste treatment portfolio.

Pressureless amine scrubbing is an efficient, heat-led process that makes sensible use of the waste heat from CHP facilities or gas boilers. HZI BioMethan also offers a three-stage pressure-driven process using membrane-based gas permeation. Both of these technologies deliver the highest degrees of purity with minimal methane slip.

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