

Ready biogas stations



Market on the rise

WE ARE LOOKING FOR A LOCATION

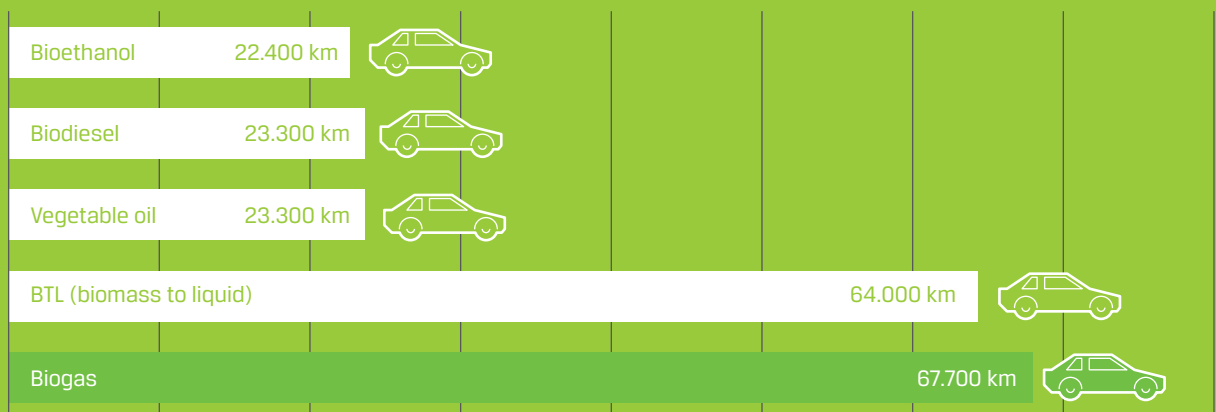
The biogas market is dynamically developing throughout Europe and no signs of slowing down can be seen. Biogas can be used in many useful ways, including electricity production, cooling-heating systems, directly as a biomethane supplied to gas networks, as a vehicle fuel, etc.

The agricultural biogas, obtained from energetic plants, is also supported by the fact, that this technology gives the biggest amount of energy per ha, in comparison to other methods in use. The next years will also be a period of a dynamic growth of number of biogas installations in Poland. Everything seems to be indicating, that this

process will be stimulated by positive law changes, financial support of institutions promoting renewable energy sources, programs of countryside modernisation.

Because of its business profile, BIOGAZ ZENERIS intends to participate actively in the process.

The amount of energy from a ha of crops calculated as a fuel equivalent in kms travelled



Source: Fachagentur Nachwachsende Rohstoffe e.v., 2007

Strong points of biogas technologies

The point of most common implementations of biogas technologies lies in the following elements:

- » biogas as a fuel – biogas is used in production of renewable electricity and heat in a co-generative unit
- » disposal – biogas station profitably disposes of problematic wastes, liquid and solid manure, slaughter, bakery, alcoholic and brewery wastes
- » fertiliser – the product of fermentation is a post-fermentation liquid – valuable, safe and almost odourless natural fertiliser
- » using modern purification and enrichment technologies can allow natural gas to be replaced by biogas
- » reduction of CO₂ and methane emission to the atmosphere – the methane reduction is related to wastes, which otherwise would emit methane to the atmosphere due to and during storage
- » opportunity of an efficient biogas production from crops of targeted energetic plants
- » because of the predicted increase of demand for renewable energy, construction of biogas stations gives a chance for signing long-term contracts for biomass supplies with stable financial conditions.

BIOGAS TECHNOLOGY

implementations,
solutions,
projects



Directions of biogas stations development

Predicted, favourable changes of law and environment, forming the first important impuls for biogas station development in Poland, are as follows:

- » possibility of combining green certificates with co-generative certificates – under the condition that they will have customers for utilizable heat
- » introduction of biogas certificates for biogas stations producing biomethane as a supporting element of their economy
- » change of construction law regulations in order to speed up the investment process
- » postulated change of law related to treating biogas stations as public benefit investments
- » more elastic regulations related to post-fermentation fluid management.

We are in full control

Our activity related to advise, development of biogas projects and design of installations includes current legal situation, however, we also actively participate in actions leading to changes in this sector of RES. In the case of particular locations, though, we analyse potential versions of development and prepare alternative scenarios, which allow the investors to make an optimal decision related to the investment.

Our technological solutions

New technologies based on methane fermentation emphasize the maximisation of biogas production in a time unit and within a defined fermentor space. Cofermentation is one of the methods of increasing the biogas efficiency, it is a method based on fermenting several substrates together.

In comparison to other known solutions, the technology developed by BIOGAZ ZENERIS differs in its approach to the material batch – it covers a wider range of substrates used, as well as optimisation of substrate composition placed inside the fermentation chamber, while keeping the lowest possible cost. Technologies used on the European biogas market, because of different legal regulations related to payments for production of renewable energy, are seldom directly transferable to Polish environment, while keeping a satisfying rentability of the installation. Our technology of farming-disposal biogas stations allows electricity to be produced from renewable sources, as well as the disposal of organic wastes, which require proper disposal.

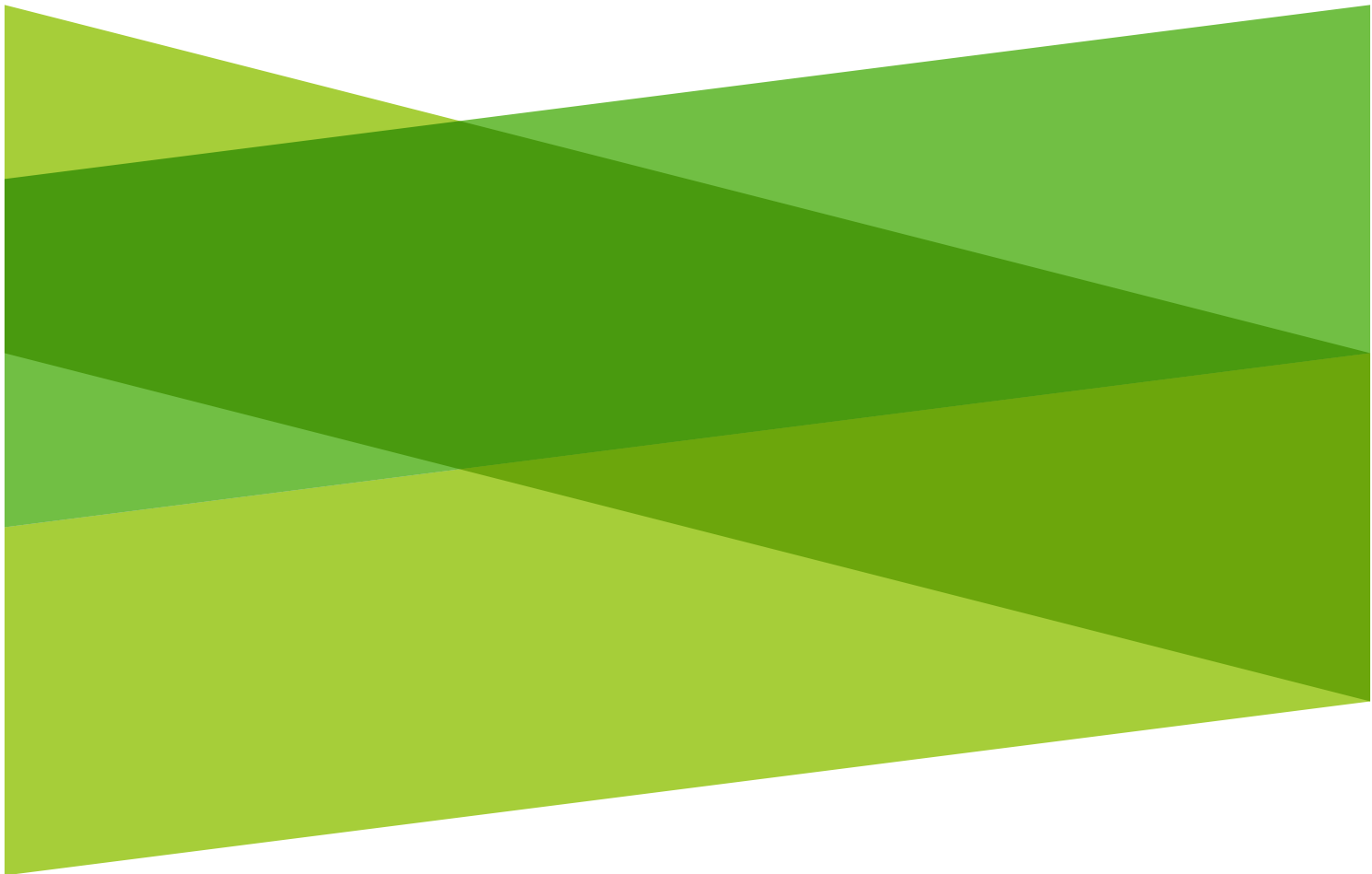
BIOGAZ ZENERIS Sp. z o.o. is a Polish company specialising in preparation and implementation of biogas stations, using BIOGAZ ZENERIS technology.

The basic services of BIOGAZ ZENERIS include:

- » advise in the field of construction and exploitation of biogas stations
- » designs of biogas installations
- » support for investors during the stage of administration decisions acquisition
- » construction and contractory works yielding a ready biogas station
- » laboratory studies and analyses of substrates for biogas production
- » advise in the field of biogas station funding
- » operation and maintenance of biogas stations

If you are interested in cooperation in the field of shared development of biogas projects, please feel free to contact us by phone or via e-mail and provide us with the most important location parameters and with the expected form of cooperation.





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ZENERIS

BIOGAZ ZENERIS Sp. z o.o.
ul. Wroniecka 18/3 (2nd floor), 61-763 Poznań
phone: +48 61 279 41 00 (to 06), fax +48 61 279 41 11
www.biogaz.com.pl