

RESOURCES FOR MSW

ANAEROBIC DIGESTION TUNNELS

A solution for treatment and recovery of organic waste



BAL HYBRID®

The BAL HYBRID® dry anaerobic digestion process is a modular, effective and scalable system for the production of biogas from organic waste and other types of biomass.

THE BAL HYBRID® PROCESS: SIMPLE AND EFFECTIVE FOR GUARANTEED PROFITS

Ar-Val is committed to supplying you with a robust, easy to operate system which will steadily produce large quantities of quality biogas with a high methane content. The system has low energy requirements.

With this treatment process, it is possible to recover a large variety of input material: biowaste, agricultural biomass, food waste, household waste...

The renewable energy produced by anaerobic digestion can be used in different ways. Combustion can produce energy and heat. It can be used as fuel, or be injected into the natural gas network after purification.

The particular advantage of anaerobic digestion compared to other valorisation methods is that the organic matter is reused twice, and energy production.

Anaerobic digestion is an endothermic process which takes place in a confined, heat proof space called a digester. Our digesters are produced with fully gas-proof concrete and are supplied with full instrumentation and accurate monitoring systems. These features guarantee that your facility will be **compliant, safe and reliable**.



BAL HYBRID® : A TRIED AND TESTED PROCESS

BAL HYBRID® dry fermentation in tunnels is a safe, biologically stable process. This anaerobic digestion process can be incorporated into an existing facility or be integrated into the design of a new installation.

■ Simple and efficient to operate

The BAL HYBRID® system stands out due to its low costs, both in terms of investment and in terms of operation, which makes it one of the most profitable processes on the market. Production of a large quantity of high-quality gas is guaranteed.

By choosing this process, Ar-Val's experts guarantee that you will receive a robust, good value facility which is easy to operate.

Our completed projects in Germany and France confirm that Ar-Val is able to meet your requirements by guaranteeing to provide you with the best technology.

■ Resources for performance: BAL HYBRID® anaerobic digestion in tunnels is an innovative solution which presents a large number of advantages :

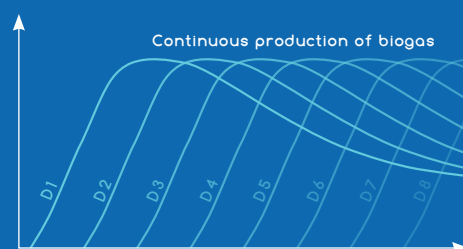
- Robust construction
- Easy to operate
- High level of biogas production
- Low energy consumption
- High availability
- Controlled investment costs
- Modular construction
- Low operational and maintenance costs
- Compatible with hygienisation of biowaste
- Constant production of biogas
- Possibility of injection of biomethane

Our extensive experience and the development of our processes mean that we can guarantee that our facilities will be reliable and robust, thus ensuring profitability and quality.

RESOURCES FOR BIOPRODUCTION

Continuous production of biogas

The modular construction of the BAL HYBRID® dry anaerobic digestion process means continuous, stable biogas production. Each digester operates alternately for a constant production of biogas and ensures optimal availability of the facility.



Production of biomethane

Biomethane production is perfectly possible after purification of the biogas, which means that this system is an excellent alternative to cogeneration. The biomethane thus produced can be stored for different uses or injected into the natural gas network.



The anaerobic digestion systems offered by Ar-Val produce **energy** which is 100% renewable and an innovative means of incorporating organic matter into the circular economy.

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