

BTA International GmbH is the leading specialist for the wet mechanical pre-treatment of different kinds of waste and the subsequent anaerobic digestion of their organic fraction.

The BTA® Process is a combination of the BTA® Hydromechanical Pre-treatment with an anaerobic digestion step for the utilization of the separated organics and therefore the largest fraction of the waste stream from municipal, commercial and agricultural sources.

The efficient removal of impurities is the key for the successful digestion of biowaste, food waste, commercial waste and the organic fraction from municipal solid waste. BTA® Hydromechanical Pre-treatment characterizes itself by its substrate flexibility and its high efficiency in the removal of impurities out of the organic suspension. This allows for high operation reliability, minimizes the disposal costs of the rejects, maximizes the biogas yield and ensures the quality of the digestate.

BTA International GmbH offers engineering services based on more than 30 years of experience, proven and patented pre-treatment systems as well as turnkey plants based on the BTA® Process.

Our company was founded in 1984 as BTA Biotechnische Abfallverwertung GmbH & Co. KG. In the middle of the 80's the BTA® Process was developed and then tested and optimized over ten years in the pilot plant in Garching, near Munich. With this pilot plant, unique in its kind in this branch, it was possible to demonstrate the suitability of the BTA® Process for the treatment of above mentioned kinds of waste.

Already in 1991 the first industrial anaerobic digestion plant for biowaste based on the BTA® Process was built in Helsingør, Denmark.

Since then more than 45 plants world-wide have been designed according to the overall BTA® Process or with key components from the wet mechanical pre-treatment with a total capacity of approx. 1,2 million tons per year (see reference list). Almost 120 million Nm<sup>3</sup> biogas are annually produced in BTA Plants, which corresponds to the energy equivalent of approx. 72,5 million Nm<sup>3</sup> natural gas.

Exclusive licenses have been granted to the following strategic partners to allow a strong international presence: Biotec Sistemi S.r.l. for Italy and Canada BioEnergy Inc. for North America. Furthermore we co-operate world-wide as technological partner with strong local or global enterprises like Veolia, AECOM, CESPA, Valoriza or EFACEC.

With the intention to offer the customer technologies for the anaerobic digestion of all kinds of substrates (agricultural residues, urban as well as organic industrial waste), the companies BTA Biotechnische Abfallverwertung GmbH & Co. KG., and Agrafarm Technologies AG decided to strategically join forces in 2007 and bundle their respective long-year experiences. By that time BTA International GmbH was founded.

The technology was systematically and successfully further developed and new patents have been submitted. These developments, together with 20 projects executed since then in Europe and North America, underline the leading position of BTA International GmbH in the technology for the pre-treatment and anaerobic digestion of organic wastes.