



We'll give your waste
a second chance!



B+T Group



24 hours a day ...

The administrative unit
Alsfeld/Hessen
(Germany)



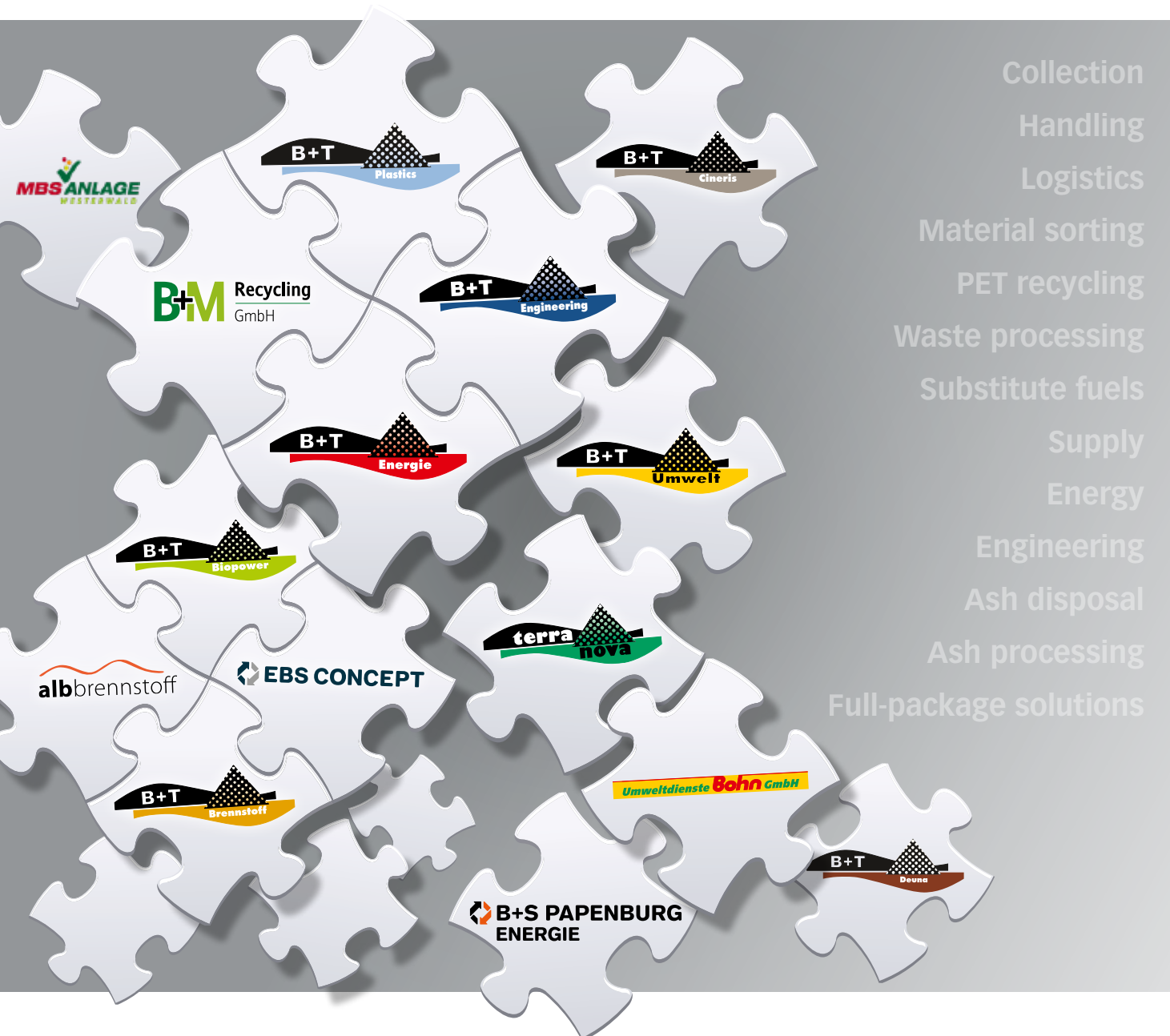
... experience and commitment
delight our customers.

For many years, customers from various industries have leaned on the professional competence, as well as the reliability and flexibility of the B+T Group.

The B+T Group businesses offer a wide spectrum of efficient services to their customers and business partners. The B+T Group has consistently developed to meet the growing demands of the market, continuously expanded its service portfolio, always focusing on innovation. Exceeding expectations and customer-orientated waste management and logistic concepts are our forte.

As service and quality are crucial to all the services we provide, we regularly earn certifications and carry out independent testing, as well as continuously providing further training for all our employees. This is how the enterprises of B+T Group meet the increasing demands of the market daily, and around the clock.





Breitenbach/Switzerland



Dübendorf/Switzerland



Alsfeld/Hessen (Germany)

What are the benefits to working with us?

We offer our full service portfolio, all under the same roof. That means that you benefit from a continuous service cycle, from waste bin to power outlet. From waste formation to ecological and economical recycling.

Our project, logistics and consultancy teams work on finding tailored solutions for each waste disposal problem – whether it be disposal of residues from the timber and paper processing industries or of other commercial enterprises. And of course, we find appropriate and suitable recycling solutions for cities, communities or rural districts as well.



Who is behind the B+T Group?

The B+T Group is a merger of several waste disposal businesses – all under one roof. For each disposal, treatment or supply task, we are the contact person for you. And of course, the same goes for related logistics.

We are your point person for:

- Facility planning and plant construction
- Waste treatment
- RDF production
- Energy supply
- Ash disposal

You'll find tremendous benefits in having experts for every sector of waste management, processing and supply tasks under one roof. In addition, having our own transport fleet ensures both speed and quality. With us, all your tasks are in qualified hands.



Disposal concepts for the paper industry

Thanks to its forward-thinking disposal concepts, the B+T Group is one of Europe's leading recyclers of residues from the timber and paper processing industries.

B+T is highly specialised in professional disposal and environmentally-friendly utilization of all types of waste from the paper industry. In close partnership with the customer, our project management teams are carefully selected to suit project requirements, thus ensuring smooth operations and an effective „all in house solution concept“.

Modern and high-performance technology, a comprehensive transport fleet (including special-purpose vehicles) as well as a reliable

staff guarantee the flexible handling of waste material and ensure cost-optimised solutions.

Quality, reliability and a maximum level of customer orientation are the hallmarks of the B+T Group. In order to maintain and develop these high standards, the B+T Group relies on its commercial partnerships. This policy ensures a pool of competence with the highest qualifications and a wide range of expertise, therefore ensuring the B+T Group is able to meet any challenge faced by its customers. The results

speak for themselves: minimum effort and expenditure for the customer, a transparent cost structure and maximum waste disposal.

With foresight, efficiency and the will to find new innovative ways, the B+T Group is also the perfect engineering partner for the construction of customer tailored facilities. And this from the first step of planning and implementation to the final step of realisation.

Professional handling of residual waste material

The B+T Group's mission is to carry out an economical and ecological conversion of all residual waste. For this to be made possible, each type of residual waste must be clearly defined, and unambiguously classified, thanks to which, a suitable, professional recycling concept is designed.

The process-integrated treatment of paper waste and the associated separation of contaminants are fully automatic processes carried out at modern paper mills. The ensuing residual waste contains a number of individual components that need to be disposed of appropriately. Despite their unique waste classifications, these products do not have a homogenous composition and therefore require special sensitive disposal methods.

Coarse pulp residue



Fibres



De-Inking-Slurry



Fine pulp residue



Mineral fraction



Bio sludge



Ash



Sewage sludge



Allow us to handle
the details!



Comprehensive, cost-optimised solutions

B+T's waste disposal concepts are based on an end-to-end process chain.

Our focus is always on a sensible and cost-effective processing of residual waste. Each and every individual step and treatment procedure is carried out by one of our competent partners and individually tailored to the specific waste material and the customer's requirements.

These services include:

- Thorough waste product analysis
- Advice on proper treatment and correct storage
- Allocation of factory transportation and cost-optimised handling
- Establishment of a complete waste disposal chain up to and including a choice of specific waste disposal routes



- Selection of recycling method based on the type of residual waste
- Selection of appropriate recycling procedures

We strive to provide a wide range of economical and ecological options to benefit our customer. B+T aims to find specific solutions for each kind of residual waste. Safety, durability, venue proximity, cost transparency and practical convertibility are all factors of utmost importance.

Leveraging B+T waste disposal plants and integrating performance-oriented partnerships are key factors to disposal safety. This decentralised concept gives rise to a comprehensive network of short, high-efficiency waste disposal routes.

The short route to disposal

The B+T Group guarantees reliable and complete disposal of all waste products to its customers throughout Europe.

The B+T Group is committed to providing a range of disposal options and procedures at its own facilities and also within the facilities of third parties.

A few examples:

- The brick and tile industry
- Cement works
- Coal-fired power stations
- Composting and recultivation plants
- RDF treatment plants
- Waste incineration plants
- RDF power stations

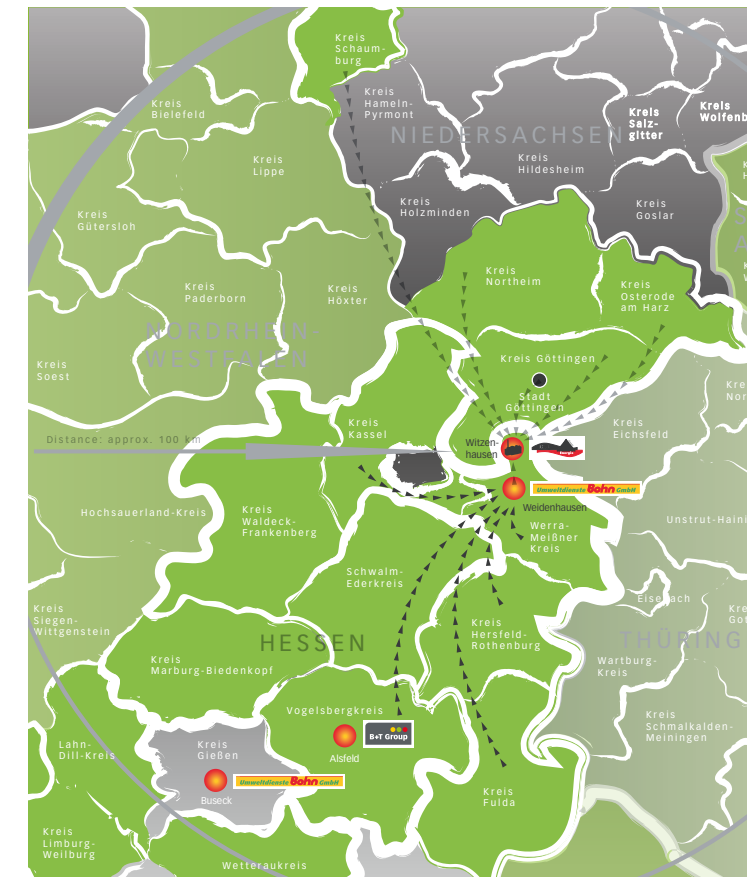




Refuse-derived fuel
manufacturing



Municipal waste prior to
refuse-derived fuel processing
in Weidenhausen



Regional solutions

Valued disposal solutions for municipalities

The mechanical processing of household waste in one of our nationally operating treatment plants and its high-quality energy recovery to substitute fuel fractions are a perfect example of waste management innovation in the B+T Group in our RDF power plant in Wittenhausen.

In comparison to conventional treatment methods, leveraging selective waste treatment, while avoiding unnecessary procedural steps, followed by energetic recovery of generated substitute fuel, results in significant cost advantages with maximum possible efficiency.

Thereby, a great variety of recyclable materials are recovered, which in turn guarantees residue-free processing.

The B+T Group is a long-term partner of German authorities, thanks to its customer-orientation and excellence. Our vast experience in the treatment and handling of mass waste is also a benefit for local authorities, as shown by long standing contracts.

This is how we prove our skill and technical expertise daily, in the area of municipal waste disposal.

To assure a seamless performance chain, centrally located sorting, processing and recycling plants are located in Buseck, Frankfurt, Renne-rod, Glückstadt, Allmendingen, Großenluder, Weidenhausen and Wittenhausen – in addition to environmentally-friendly waste conversion concepts. This sets us up to be fully prepared for the diverse requirements of municipal customers.

In our role as service provider, we offer several services such as collection, handling, transport, processing and treatment – everything in house!

Our modular waste disposal systems, which

are flexible and tailored to each customer profile – are a true alternative to traditional waste disposal methods.

The product and service spectrum of B+T incorporates the entire portfolio of municipal waste disposal management tasks.

- Collection of household and commercial waste
- Handling of household and commercial waste
- Transport of refuse and residual waste
- Processing of refuse and residual waste
- Conversion of refuse and residual waste

A local, competent waste processing partner with tried and tested expertise.



Task optimised sorting, preparation and processing

At the core of our concept is our own sorting, processing and power plant machinery that can retrieve valuable materials and manufacture products from residual waste. Thanks to these, valuable energy is recovered. We exceed the different demands of users of alternative fuels through specific processing products, implemented and manufactured in our customised processing facilities. If requested by a customer, we are able to deliver 'ready to burn' and just-in-time materials.

At the start of 2005, one of the most modern facilities for processing commercial waste of its kind began its operations in Buseck near Gießen. Residual waste from the paper and wood processing industries are also managed there.

Another 6 state-of the-art facilities were created, which today manufacture specifically to

meet customer requirements. Thanks to these facilities, we are able to present customers with a processing capacity of more than 1 million tonnes each year. Our industrial firing facilities ensure optimal conversion of residual waste material for energy use. On request, we are happy to provide you with information on manufactured products, their specifications



and the possible utilisation of co- or mono-incineration.

As substitution rates increase, customer mandates are on the rise. We address their needs and commit to them conscientiously and responsibly on their behalf: We focus on a fair and trust-based collaboration, which we honour daily through performance, dedication and our sense of responsibility.

State-of-the-art facilities ...

With each facility, we are investing in our partnerships and therefore in the future.

As testified by our products, secondary raw materials and quality-ensured alternative and substitute fuels for different thermal processing treatments, we have secured many satisfied and long lasting business partnerships - from the cement industry to coal power stations all the way to highly efficient RDF power plants.

... for long-lasting partnerships!

RDF-ZW (high calorific)



RDF-MK (commercial waste)



RDF-MK (household waste)



RDF-FK (low calorific)



FE-metals



NE-metals





Witzenhausen RDF power plant: technical specifications

Capacity:	124 MW thermal 153 tonnes/hr HD-steam
RDF consumption:	approx. 300 000 tonnes per annum
Design concept:	CHP-facility with full energy provision of a paper mill



Provision of energy for industrial customers – our RDF power plant.

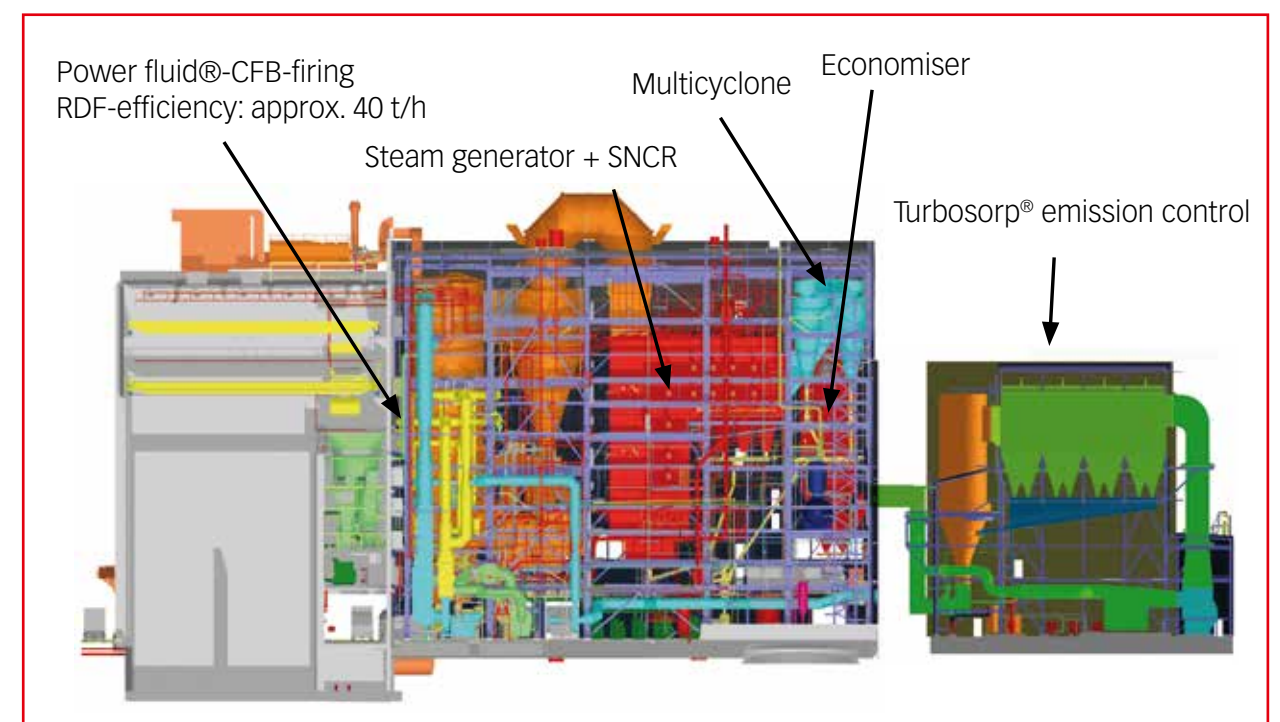
The B+T energy partnership with DS Smith company in Witzenhausen is a prime example of how we supply energy to industrial customers – implemented through B+T's own substitute fuel plant.

The RDF power plant in Witzenhausen is the first power plant nationwide that fully provides alternative energy from RDF to large industrial customers while simultaneously ensuring an efficient and environmentally friendly utilisation of substitute fuels.

With an R-1 rate of 95.8 %, the power plant in Witzenhausen fulfills all requirements set by the Law on Life-Cycle management for classification of processing plants.

In addition, the circulating fluidised bed for refuse-derived fuel of medium calorific value and has a thermal fuel output power capacity of 124 MW.

B+T Cineris is responsible for providing the appropriate amount of refuse-derived fuel, as well as the disposal of accumulating ash and regular quality control.





Disposal of power plant residue and minerals

As an operator of a RDF power plant within the B+T Group, in which approximately 85,000 tonnes of power plant residues arise per year and must be disposed of, we are aware of the high demands that are set for responsible disposal. The experts at our B+T Cineris dispose of all firing residue professionally, responsibly and safely.

We know well what matters when dealing with the disposal of ash from power plants. The power plant must be continually operating! At the same time it is important to safely and reliably dispose of residues without presenting a bottleneck for the business.

Whether it is filter dust, fly and bed ash or cinders, i.e. rust and kettle ash or even other

mineral wastes like soil or sludge, we are your partner. Assuredly.

Safe disposal

Our top priority is safe and reliable disposal, which involves trust. We strictly comply with all waste accredited legislation, regulations

and presets for the disposal of each and every type of waste.

The B+T Cineris has taken it upon itself to develop a disposal concept tailored specifically to the needs of our customers. In addition to disposal safety, we focus on using the properties of every residual material – the goal being to keep costs at a minimum. In the same vein, methods are developed to optimise all internal industrial procedures. Thanks to years of experience with the disposal of residues from incineration plants and through our own B+T Group power plant in Witzenhausen, which yields 85,000 tonnes of ash, we have gained critical know-how. Concurrently, we dispose of 450,000 tonnes of various residual waste throughout Germany.

Our goal is to use the material properties of residual material or waste and thus, give it a second life. This conforms to our philosophy to create a functional economic cycle.

We work towards this goal day by day.

Non-ferrous scrap



Rust- and kettle-ash



Ferrous scrap



Fine bed ash



Fly ash



Filter dust

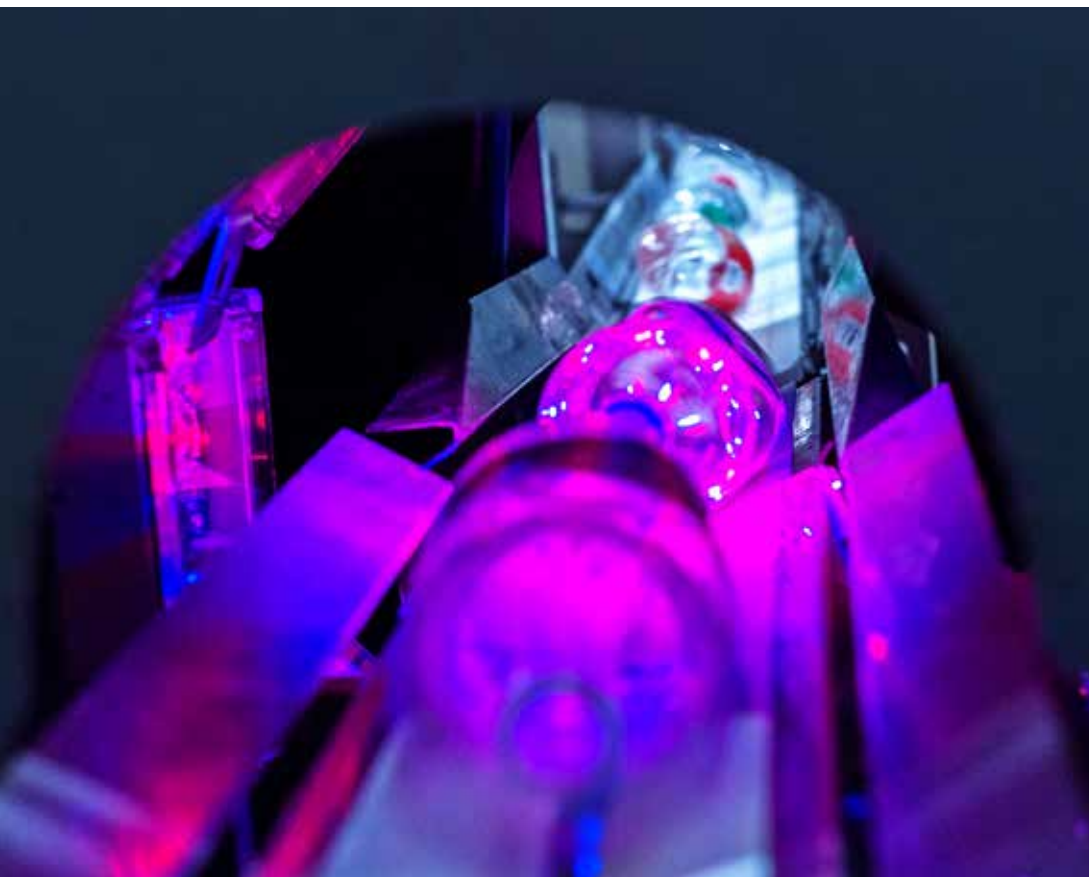


Conditioned ash



Coarse bed ash





Counting centre and PET-bottle-processing in one location

B+T Plastics GmbH is located in east Hessen in Großenlüder. That is where a PET-counting centre and a PET-synthetic materials recycling facility manufactures PET-flakes.

Polyethylene terephthalate, PET for short, is on the rise in the beverage industry, particularly in Europe, due to its manufacturing properties – lightweight and shatterproof. Establishing a suitable form of recycling for this crude material is therefore of utmost importance.

Close to 100-million plastic- and glass bottles as well as cans have been recorded to date by the PET-Counting centre. The counting centre is certified by the German bottle deposit system ("Pfandsystem" GmbH (DPG)) to receive any

returnable disposable beverage packaging. Two types of facilities enable the recording of the bottles through EAN-Codes and DPG-security marks, simultaneously sorting via material properties as well as voiding them. Prepared in this way, the appropriate method of recycling can be applied to the different materials. The 'Clearing' enables the continuous and reliable backtracking of all these processes.

Environmentally-conscious recycling with state-of-the-art engineering facilities.

Thanks to leading-edge facility technology known to this day and age, processing of disposable and reusable bottles is both thorough and environmentally friendly, so they can then be reused in different areas of industry as PET-flakes.

Their recycling first of all requires a separation based on type and colour. Foil, metals, labels and bottle caps must later be removed. A well-engineered separating technology, like the one used by B+T Plastics is needed for this task.

After the cleaning and separating process, the bottles are reduced to PET-flakes. They are then sorted by colour and become the base material for different products of the packaging industry: film, ribbon and even bottles can be

made from the flakes. PET-flakes are also used in the textile and automobile industry.

They serve as substitutes to new merchandise and therefore clearly fulfill the requirements for environment protection and sustainability.

The entire processing procedure as well as all technical data is constantly monitored in digital form.



Helping to make your difficult tasks easy!

As a specialist supplier with a high-performance and state-of-the-art truck fleet, we always offer our clients a fitting transport idea and effective handling solutions. Thanks to our team spirit and client orientation, the B+T Group guarantees its clients a smooth and timely execution of projects.

With a large stock of our own vehicles and a fleet from a tried and tested network of contractual affiliates, we can flexibly meet any demand within a short time, 7 days a week and 24 hours a day. This logistic concept offers significant advantages for our customers.

Our truck pool includes the following vehicles:

- Walking-floor-truck
- Container-truck
- Heavy duty tipper truck
- Silo vehicle

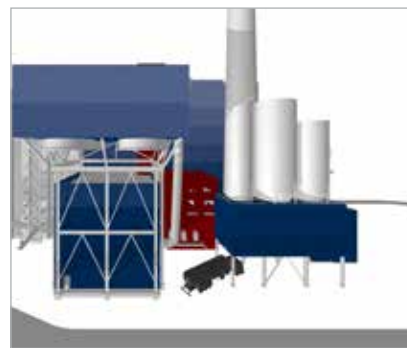
Customer proximity and task-focused

Our objective is customer proximity.

We achieve this objective thanks to a network throughout Europe made up of cooperation partners, recycling plants and logistic centres. Our network enables us to be present and offer the right solution wherever you are located and whenever you need it.

The "short route" concept is advantageous for all parties involved. The clients benefit from speed and flexibility. Furthermore, stress on the environment is noticeably alleviated.





... designing
energy
production and
environmental
facilities.



Competence in planning and configuration ...

The realisation of technological complex facilities in the area of thermic waste disposal and energy production demands a high competence in planning and configuration.

Establishing technically complex facilities in the area of thermal waste disposal and energy production requires highly skilled planning and project management.

An experienced team at B+T Engineering designs environment and energy production facilities specifically to meet our clients' needs. Our engineers are experts in the areas of energy extraction from waste and biomass, as well as the processing and recycling of residues. They utilise their technical knowledge to

optimise existing facilities as well develop new facilities. B+T Engineering accompanies these projects throughout all phases. From the customer's concept to the builder's handover, we assist in logistics and also technical side.

In everything we do for our clients, we choose to proceed independently from all delivery interests and have a wide and long range of experience, which makes us a valuable contact for public authorities in towns, municipalities, associations and industry as well as for finan-

cial institutions and other service providers. Our experts travel the long road alongside our customers, from concept to the implementation of a project. We solidify our customers' ideas with feasibility studies, market analysis, methodology evaluation, technical concepts, energy and operation analysis as well as studies to improve facility optimisation.

As a reliable partner in the planning phase we provide all necessary documentation pertaining to the configuration as well as planning for the whole site, budget, schedule and authorisation.

Our team's expertise closely follows the realisation of a facility. We take over project management for the builder, in its entirety or partially, draw up submission documents, examine the proposals and offer contractual

support. As the project advances, our experts examine the detailed engineering, provide quality control, coordinate interfaces, monitor costs and schedule, all in keeping an overview. Even once a newly created or optimised facility begins its operations, B+T Engineering assists the operators, can supervise the operation assistants where necessary, watches over the facility operations and offers assistance for further facility optimisation.

Your partner
for planning and
engineering!



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Terra Nova GmbH

B+T Umwelt GmbH

B+T Energie GmbH

B+T Brennstoff GmbH

B+T Cineris GmbH

B+T Biopower GmbH

B+T Plastics GmbH

B+T Engineering AG

B+T Deuna GmbH

MBS-Anlage Westerwald GmbH & Co. KG

EBS Concept GmbH

B+M Recycling GmbH

Albbrennstoff GmbH

B+S Papenburg Energie GmbH