



**Diemme
Filtration**

Trust Never Ends.

Filtration and Thickening Systems

A brand of
Aqseptence Group



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Our Mission

We innovate filtration technologies for global industries, using our expertise to improve efficiency, reduce costs, and promote environmental sustainability.

By continuously developing our team's skills and working closely with customers, we build trust and deliver reliable services along with customized, data-driven solutions.

About Diemme® Filtration

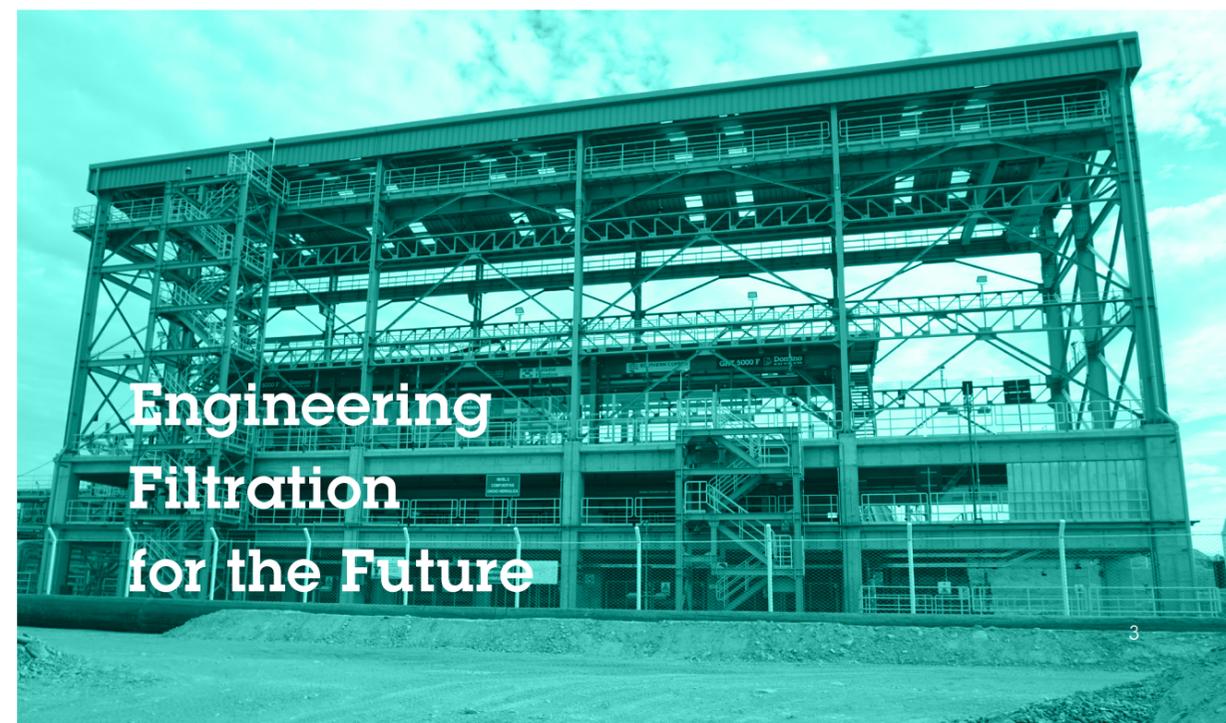
The Diemme® Filtration brand was born in the early '70s when the filter press left the traditional application field of the food industry to establish itself in other industrial sectors as a process technology for solid-liquid separation.

In those years, the filter press became the machinery of choice for the treatment of industrial and municipal sewage sludge, a role that it still maintains today in all those applications, such as the mining and the chemical industries, the power plants and the oil and gas sector, where high dewatering performance, low operating costs and reliability are key drivers in technology selection.

Diemme® Filtration has the widest range of filters available on the global market in terms of size, design and technical characteristics. The equipment is tailor made and designed according to the needs of the specific application.

Diemme® Filtration also began to design and supply its own range of high-rate thickeners, thus broadening the company's scope of supply and giving more support to the customer.

Our Vision



Milestones

- 1923** → The Diemme® brand is established with the development of the first pressing and separation machines for the agri-food industry.
- 1970** → Diemme® Filtration technologies are expanded to encompass other industrial processes.
- 2011** → The filtration division is spun off from the parent company and acquired by Passavant-Geiger, a company within the multinational Bilfinger Berger Group.
- 2013** → Passavant-Geiger is renamed Bilfinger Water Technologies, and all group companies align their corporate names with the new brand.
- 2016** → Bilfinger Water Technologies Group is acquired by the Techcent Group and renamed Aqseptence Group.
- 2022** → As part of a re-branding campaign initiated by Aqseptence Group, the company reverts to its original name, Diemme® Filtration.
- 2023** → Aqseptence Group is acquired by Oaktree Capital Management.



DIEMME

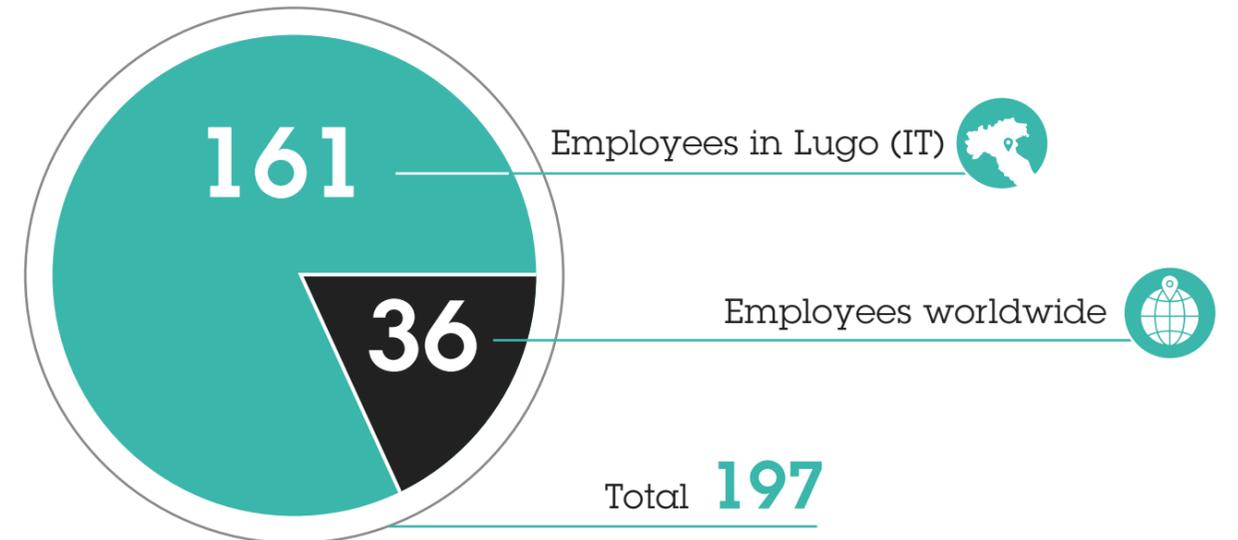
PASSAVANT GEIGER



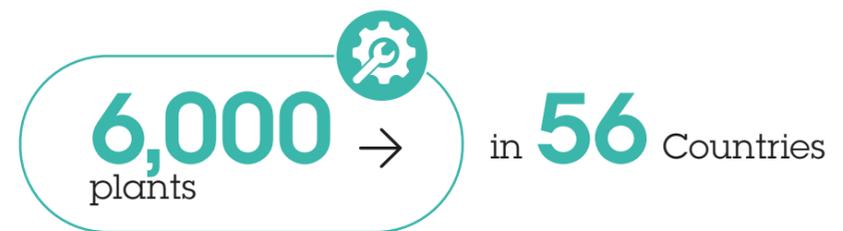
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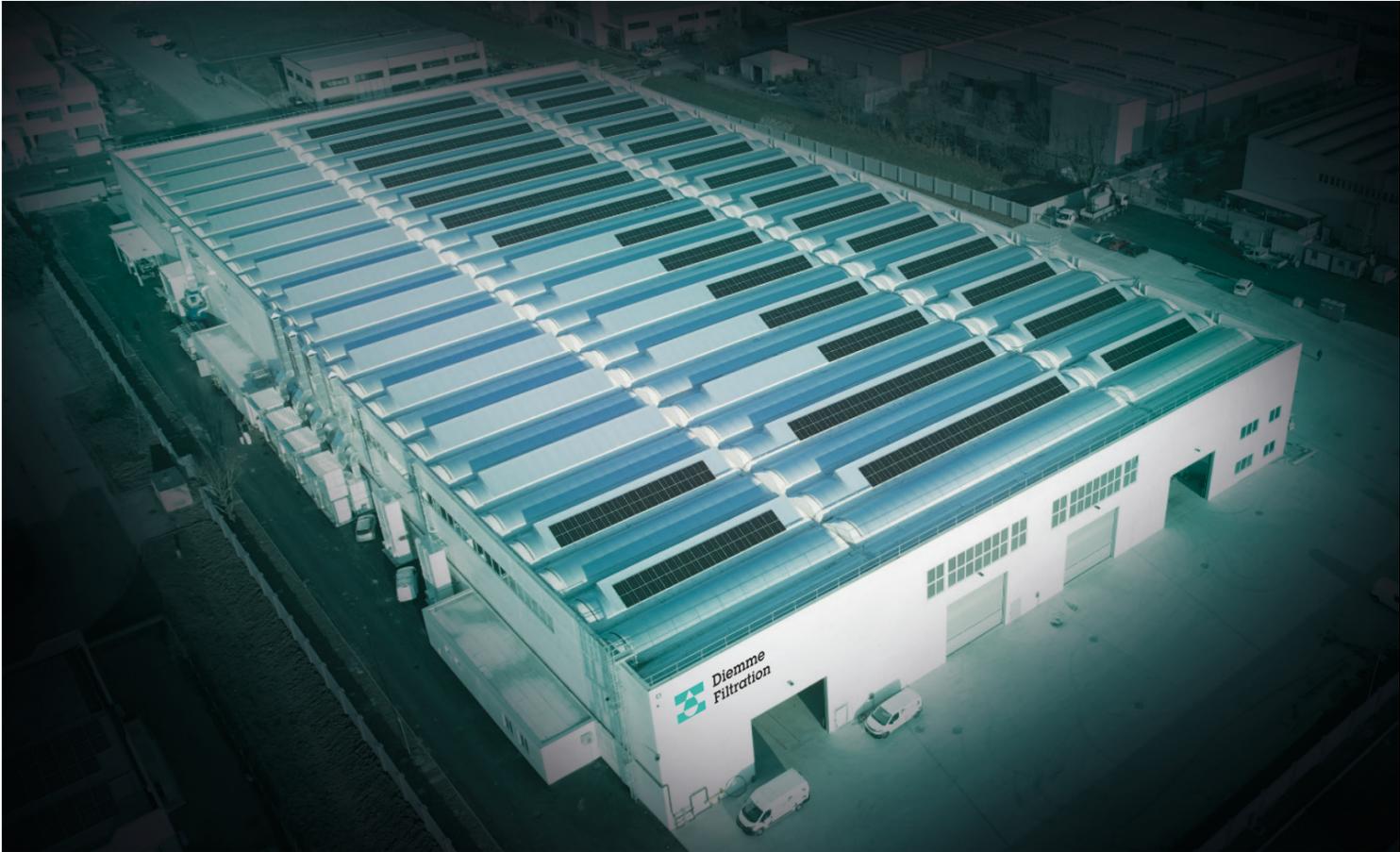


Our Numbers



The percentages are calculated based on the total workforce in Lugo





Lugo Headquarters (IT)

52,230 m²
Global area

48,000 m²
Total production area

20,000 m²
Internal production area

122 m²
Laboratories

1,268 m²
Offices and engineering

Diemme® Filtration Worldwide



Nova Lima Branch (BR)

4,000 m²
Global area

2,200 m²
Building area



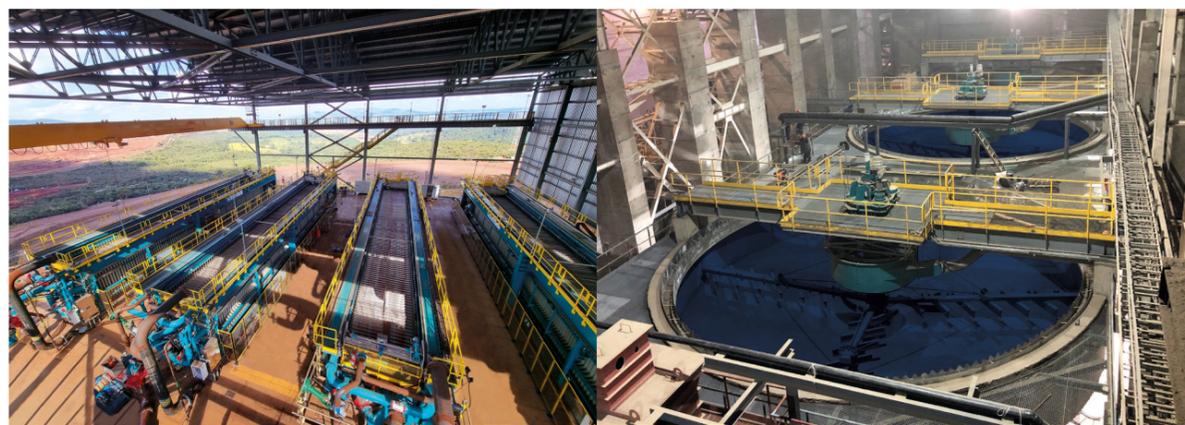
Comprehensive Technology Portfolio

We offer complete solutions for solid-liquid separation and thickening

Diemme® Filtration has the widest range of filter presses available on the global market in terms of size, design and technical characteristics.

Diemme® also began to design and supply its own range of high-rate thickeners, thus broadening the company's scope of supply and giving more support to the customer.

The high-rate sludge thickeners are the result of many years of experience in solid-liquid separation in a wide range of industries such as mining, chemical, metallurgical, water treatment and many others. They achieve very high productivity and are designed to complement Diemme® Filtration filter presses.



A wide range of filter presses

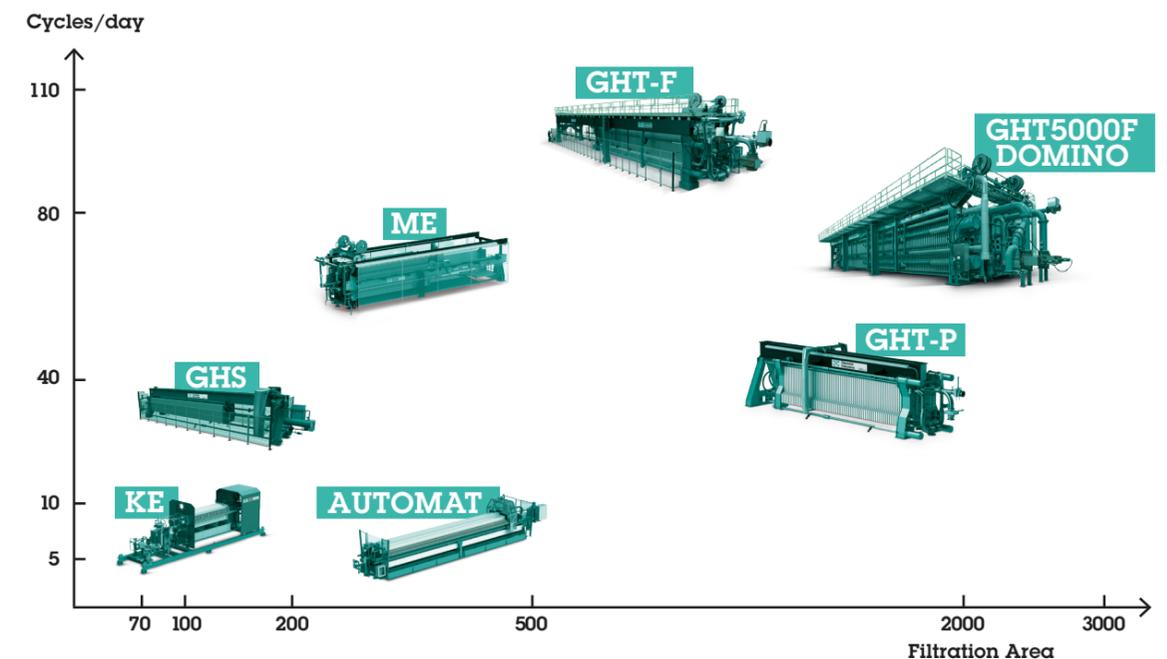
Diemme® Filtration has captured a large portion of the solid-liquid filtration market thanks to its ability to customize. The systems are entirely designed and built to meet the specific needs of customers.

Diemme® Filtration filter presses can have an overhead or side beam structural design and differ in size and degree of automation. The size of the filter press depends on the size and number of plates installed.

Diemme® Filtration filter presses are fitted with plates of different nominal sizes (from 500 x 500 mm to 5,000 x 5,000 mm); different materials: polypropylene, carbon, PVDF, etc.), and different technologies (membrane and recessed plates).

In terms of degree of automation, Diemme® Filtration filter presses can be **semi-automatic**, in which case the operator intervenes at various stages of the cycle. They can also be **fully automatic**, meaning they can operate in a continuous cycle without any personnel intervention.

MODEL	NOMINAL PLATE SIZE
KE	500 - 800 mm
GHS	1000 mm
AUTOMAT	1200 mm
ME	630 - 2000 mm
GHT-P	1200 - 2500 mm
GHT-F	1500 - 2500 mm
GHT5000F DOMINO	5000 mm



Applications



Chemical & Pharmaceutical



Dredging & Soil Remediation



Red Mud



Power Industry



Quarrying & Recycling



Food & Beverage



Mining & Metals



Oil & Gas



Second-generation Bioethanol



Wastewater Treatment

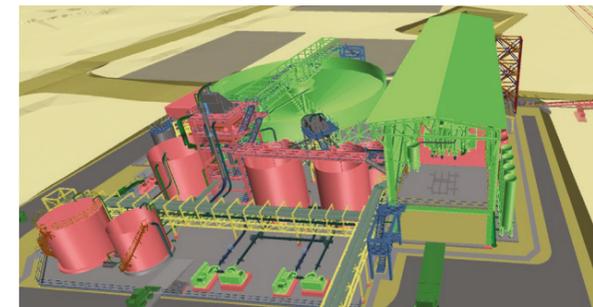
Laboratory and Engineering

Our team of industrial chemists and process engineers conducts in-depth analyses and precise experiments on actual samples to determine filtration and thickening parameters.

Combining analytical and fluid dynamics expertise with mastery of conducting customized laboratory and industrial-scale experiments is essential for optimizing customers' production processes and ensuring the performance of supplied equipment.

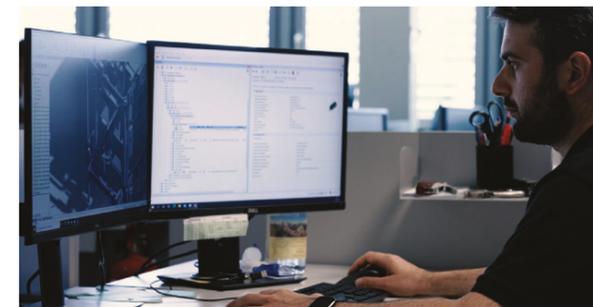


Cutting-edge engineering



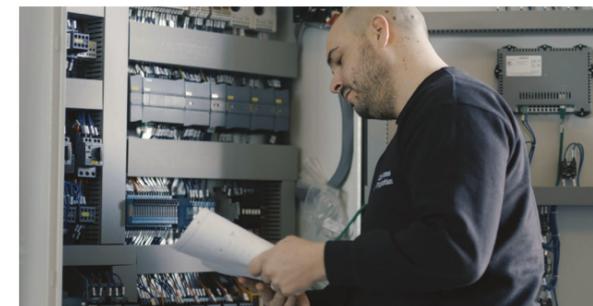
Plant rendering

During the technical review of orders, it is essential to create a 3D layout of the plant. Thanks to our augmented reality systems, we can create a virtual tour in the plant in order to verify its functionality, ergonomics and first insight.



Detailed design

In the detailed design phase, Diemme engineers focus on refining every aspect of the design, ensuring maximum precision and functionality, customization and required standards.



P&ID and HMI

During the implementation of an order, our Engineering Team develops, in consultation with the customer, the P&ID of the system to understand the entire process flow and ensure operational safety.



Installation at the plant

Installation of our solution on-site requires careful planning and coordination. With the assistance and continuous support (physically and remotely with the AIDA service) we can ensure perfect set-up and optimized performance.

Customer Service



Support

If you need spare parts, technical documentation, remote support, or on-site assistance, open a support ticket to contact the technical staff at Diemme® Filtration.



Aida

Our IIoT solution provides a clear, detailed, real-time view of the solid-liquid separation process, including system performance and efficiency.



Academy

The online platform dedicated to sharing Diemme's experience and know-how through training videos, technical and process information.



Spare Parts

The online platform dedicated to sharing Diemme's experience and know-how through training videos, technical and process information.



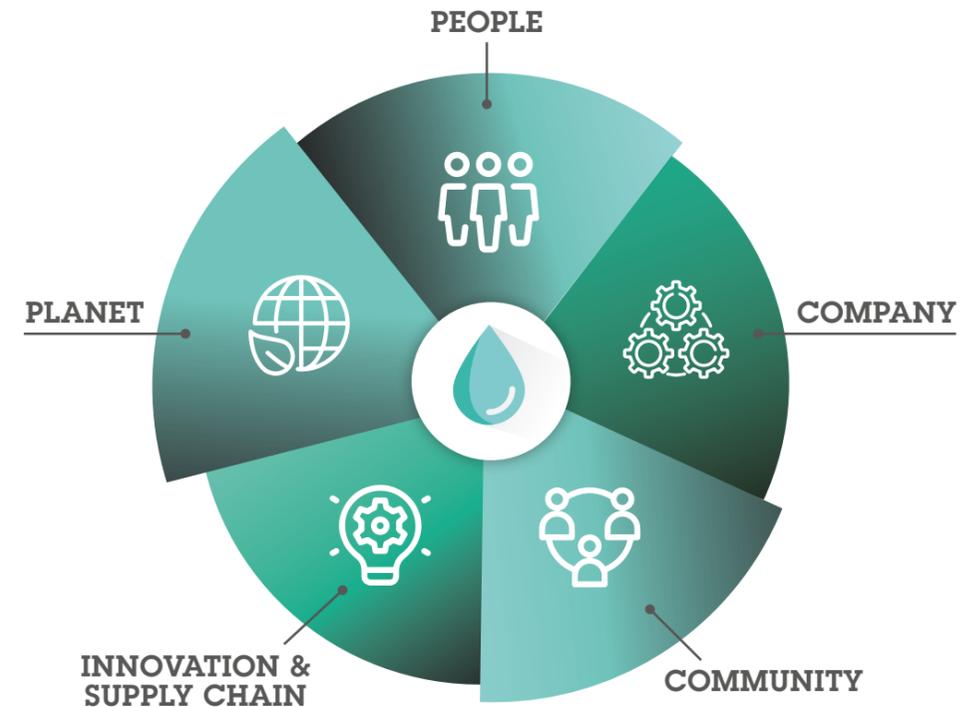
Filter Cloth

Original filter cloths selected by our experts with correct quality to provide best performance for your operation.

Sustainability in our DNA

ESG - Strategic sustainability plan

In 2024, we published our first Sustainability Report and launched a study on the organization's carbon footprint, certified UNI ISO 14064, in order to understand and reduce carbon emissions. The strategic plan reflects our commitment to positioning ourselves as competitive players in the industrial filtration sector in terms of technological efficiency and environmental and social responsibility. Identification of five strategic pillars broken down into key themes and specific actions for the four-year period 2024-2027.



B-Plas: Young Entrepreneurial Venture

In 2021, Diemme® Filtration became the business accelerator for B-Plas, a benefit corporation.

The B-Plas Mission

Through open relationships with customers and field testing, B-Plas designs customized processes and manufactures modular systems for treating and upcycling waste sludge into new by-products and bio-resources.

The B-Plas Vision

B-Plas offers a viable and sustainable solution to the problem of sludge disposal of municipal, industrial or agro-industrial treatment plants.



- B-Sludge**
- Sludge module
 - Sludge reduction up to 80%
 - Recovery of sanitized water
 - Recovery of nutrients



- B-Energy**
- Sludge + biogas module
 - Sludge reduction up to 80%
 - Biogas production



- B-Poly**
- Sludge module + PHA*
 - Sludge reduction of up to 80%
 - Production of biomass rich in PHA*

*Polyhydroxyalkanoate



- B-Fosfor**
- Phosphorus recovery
 - Phosphorus reduction in wastewater
 - Phosphorus recovery by precipitation and dewatering

B-Plas Technology: all benefits

Thanks to its innovative process, B-Plas is a circular alternative to existing solutions, focusing on the recovery of valuable materials and minimizing the volumes of sludge, with significant savings on disposal costs.

Furthermore, a significant fraction of the soluble organic carbon (COD equivalent) is converted into PHA.

Benefits of the solution



Sludge volume to be disposed of



Generation of new value and new revenue

- ✓ **AVOIDS**
the use of flocculants for sludge dewatering
- ✓ **REDUCES**
greenhouse gas emissions (only biogenic CO2 and water vapor)
- ✓ **DECREASES**
the number of vehicles carrying sludge to be disposed of
- ✓ **INCREASES**
the overall capacity of sludge treatment plants
- ✓ **PRODUCES**
PHA biobased biodegradable; Biochar; COD-rich waters; Phosphorus
- ✓ **GENERATES**
technological innovation and new employment opportunities

Diemme Filtration Srl

Via Gessi 16
48022 Lugo Italy
Ph. +39 0545 20611
www.diemmefiltration.com



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