





European and Regional partners







Collaborations





A brand of Agseptence Group





Contact

Phone: +39 (0) 0544 973751

E-mail: cristian.torri@unibo.it;

bplas.info@gmail.com

www.b-plas.it

www.facebook.com/B-PLAS-DEMO



Address

Department of chemistry "Giacomo Ciamician" c/o UNIBO - Laboratori Renzo Sartori Via Sant'Alberto, 163 48123 Ravenna

Italy

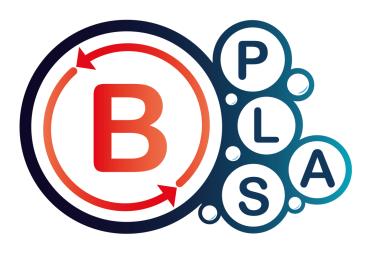


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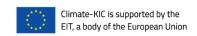




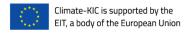
B-PLAS

BioPLAstic from Sludge

www.b-plas.it









ABOUT US

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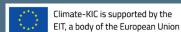
B-PLAS DEMO aims to reduce and optimize the wastewater treatment technologies in order to convert sludges from a cost to a benefit, providing the market with reliable bioplastics able to compete with fossil based ones.

SOLUTIN

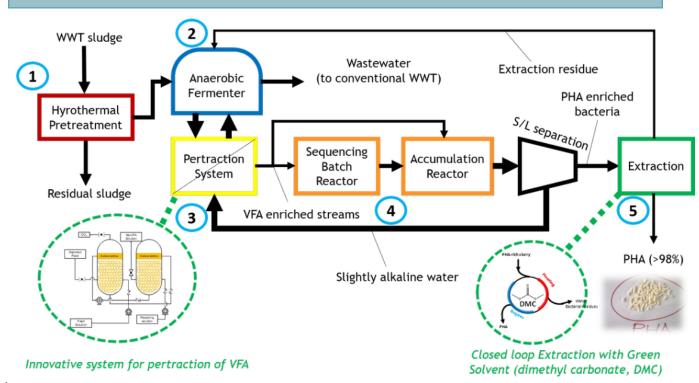
B-PLAS applies simple and reliable technologies for the conversion of waste sludges into bioplastics. The B-PLAS project aims to realize fully automated plants that allows to convert food waste, waste sludges and other organic residues into Polyhydroxyalkanoates (PHAs). PHA is a bio-based and bio-degradable plastic, suitable for packaging, disposable items and 3D printing and more. Currently the cheapest bioplastic spool costs more than 30 €/kg, bioplastic pellets more than 4 €/kg. Differently, organic wastes are readily available and free, allowing the production of cheap PHAs.

ADVANTAGES

For society: reduction of sludge disposal impacts and related concerns. Elimination of pathogens. For the environment: Saving of non-renewable sources. Reduction of CO₂ emissions. Substitution of non-biodegradable plastics. For the industry: Decrease of sludge disposal costs by 40-65%. Energy savings during production.



How the B-PLAS technology works:



- 1. Hydrothermal treatment of wastewater treatment sludge
- 2. Anaerobic fermentation
- 3. Innovative pertraction system for selective extraction of volatile fatty acids (VFA) enriched solution
- 4. SBR reactor for production and accumulation of PHA enriched bacteria
- 5. Sustainable green extraction of PHA from bacteria cells

AREA OF APPLICATION

- · Food and beverage wastewater treatment
- Sewage treatment and management
- Anaerobic Digesters
- Packaging





