

BIOPAP® POSITION PAPER ON PPWR (EU REGULATION 2025/40)

1. Executive Summary

BIOPAP® Società Benefit proposes an industrial model aligned with the PPWR (EU Regulation 2025/40) that maximizes the valorisation of biowaste through compostable packaging designed for collective catering.

In this context, compostable is not a generic alternative but a high-efficiency systemic solution where recycling and reuse are suboptimal.

Key element: European biowaste represents a largely untapped resource with strategic potential for renewable energy (biomethane) and soil fertility.

2. Strategic positioning within PPWR

The PPWR prioritizes:

1. Reduction
2. Reuse
3. Recycling
4. Compostability (in specific applications)

BIOPAP® is strategically positioned where:

- reuse is inefficient (hygiene constraints, logistics, costs)
- recycling is compromised by food contamination
- an efficient organic waste infrastructure exists

3. Biowaste: a strategic European asset

Europe generates significant volumes of organic waste that are not fully valorised.

Full activation of the biowaste value chain would enable:

- Biomethane production → reduced energy dependency
- Compost production → reduced use of chemical (especially nitrogen-based) fertilizers
- Improved soil quality
- Increased soil organic carbon (biogenic carbon sink)

BIOPAP® enables this system by improving collection efficiency and organic waste quality.

4. Italian model: European benchmark

Italy represents an advanced system:

- high separate collection of organic waste (together with certified compostable packaging)
- integration of composting and anaerobic digestion
- agricultural use of compost

BIOPAP® is designed to maximize performance within this ecosystem.

5. BIOPAP® competitive advantage

5.1 Advanced certifications

- EN 13432
- CIC certification
- OK compost HOME
- BPI (USA)
- Suitability for biomethanisation



5.2 Real differentiation

The CIC certification is a unique differentiator:

- validation by real plant operators
- disintegration testing in real scale conditions

6. Optimal application: collective catering

Ideal contexts:

- corporate canteens
- schools
- hospitals
- organized catering

Benefits:

- combined collection of food waste and packaging
- reduced sorting errors
- improved input quality for treatment plants
- higher capture of biowaste (food leftovers)

Why collective catering is the leverage point:

- concentrated waste streams
- high food contamination
- controllable systems (closed loop)

7. Competitive positioning

BIOPAP® is:

- an optimal solution in integrated organic waste systems
- an enabler of real circular economy

8. Conclusion

BIOPAP® represents an advanced and strategic solution within the PPWR framework, delivering significant impacts in energy, agriculture, and circularity when applied in the right contexts.