



# LIFE+ GLUELESS™ PROJECT

PETROL BASED GLUE AND ENERGY CONSUMPTION REDUCTION IN DIAPERS PRODUCTION PROCESSES.



Glueless Acquisition Layer

Glueless Core

Glueless Frontal Tape

Glueless Cuff

Glueless Ears

## Saving results in EU



Raw Materials (kt)

**192**

Avoid municipal waste generation by 405.000 people



PED (TJ)

**15601**

Compensate annual final energy consumption of 270.000 EU households



GWP (kt CO2 eq.)

**184**

Annual production (Glue + all other changes)



Costs (million EUR)

**218**

The **LIFE+ GLUELESS™** project demonstrates that a significant reduction in the environmental impact of Absorbent Hygiene Products can be achieved through a drastic reduction of glue in the production process.

Gluing can be replaced by innovative combinations of thermo welding and ultrasonic bonding, which allow reductions in the use of petrochemical - based glue with substantial energy and cost reductions.

The project was realized by Fameccanica, together with its partners University of Manchester and Fater, thanks to the contribution of LIFE+ financial instrument of the European Commission.