The first achievement of the project has been reached at the end of December 2013, with the completion of the qualification of a new GLUELESS™ lamination concept for back ears for baby diapers. This GLUELESS™ construction is now a commercially available solution with Fameccanica laminating machine model FLS. Fameccanica is known for its patented solution for a Unique technology for in-line processing of breathable laminates with ultrasonically bonded transpiring spots. The latest improvement has been reached with the complete elimination of the glue applications in this laminate and this is by itself, an evident step in the direction of cost saving in diaper production processes and environmental impact reduction.

The project LIFE Glueless "Petrol based Glue and Energy consumption reduction in diapers production processes", aims to demonstrate to industry and policy makers that significant environmental impact reduction in Absorbent Hygiene Products (AHP), such as diapers, can be realized, with appropriate solutions that will be the subject of this project. The project will showcase how environmental impact can be reduced, while cost competitiveness can be held or even increased.

GLUELESS™ application of ADL is under lab test qualification
Fameccanica has started the qualification of its GLUELESS™ application of ADL (acquisition-distribution-layer) on diaper topsheet.

The objective of this project phase is to make available a proven technology to be used on Fameccanica converters with commercially available raw materials and a validated set of product performance data.

The initial lab test demonstrated that the process and technology developed are appropriate to realize this type of application at the full speed of the commercially available diaper machines. Also, the product performance and product quality met the key performance indicators selected (peel force test and fluid handling-acquisition) in the initial objectives.

GLUELESS™ elastic application
Qualification tests
Fameccanica has started the qualification of its GLUELESS™ application of elastic strands and the initial lab test demonstrated that the equipment utilized by Fameccanica on the basis of a patent owned by Cera Engineering France is appropriate to realize this type of application at the target performance.

The engineering phase will follow to make available, in the future, the new technology capable to fit the real production conditions and requested speed of Fameccanica high performance converters.

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WHAT IS EU’S LIFE PROGRAMME?
"LIFE is the EU’s financial instrument supporting environmental, nature conservation and climate action projects throughout the EU.
The general objective of LIFE is to contribute to the implementation, updating and development of EU environmental policy and legislation by co-financing pilot or demonstration projects with European added value."

FAMECCANICA AND LIFE+
On July 1st, 2013 Fameccanica was granted financial support to project proposal N° LIFE12 ENV/ IT/00422 concerning the development of means for cost savings in diaper production processes. The project shall run for three years, starting July 1st, 2013 to Dec. 31st, 2016.

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GLUELESS™ lamination of back ears for baby diapers
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