



## PRESS RELEASE

### TotalEnergies and COLINES® partner to create Unlaminated Recyclable packaging contributing to resource efficiency utilization

**Brussels/Marano Ticino, March 16, 2023** – TotalEnergies and COLINES® announce the successful proof of concept of an Unlaminated Recyclable Stand-Up Pouch suitable for food-contact applications.

Currently the market reference is composed of a multimaterial film, resulting to non-recyclable packaging. The partners have developed a full PE recyclable Unlaminated Stand-Up Pouch, allowing to decrease the packaging thickness. The Machine Direction Orientation (MDO) film has been produced on the COLINES® cast line Polycast as well as the MDO line, allowing asymmetrical structure (low density sealing layer on one side, high density stiff layer on the other side). The MDO-PE film formulation is composed of TotalEnergies Supertough® and unique Lumicene® high density PE, offering a vast thickness range of solutions fitting customer's needs.

The game changer film has been printed by Cirepa, a printing company for flexible packaging, and then transformed into a Stand-Up Pouch by Dry-Top, a packaging company.

This project, as well as other Stand-Up Pouch projects that TotalEnergies is working on, will be detailed during the upcoming AMI Plastic Pouch seminar that will take place in Barcelona, from the 20th of March.



*“This collaboration is in line with the recent developments to provide packaging solutions that are fully mechanically recyclable, with the end goal to bring more qualitative feedstock on the market. This latter could be used as feedstock for the recycling industry and eventually end up as RE:use polymers, part of the RE:clis range supporting our ambition of producing 30% circular polymers by 2030. This development was made possible by our broad Lumicene® and Supertough® product range bringing outstanding processability as well as excellent mechanical and optical properties.”* said **Olivier Greiner, Vice President, Polymers Europe & Orient at TotalEnergies.**

“We are proud to be part of this very important project, made possible also by the proprietary COLINES® technology in the field of MDO, as well as by innovative and patented solutions for the production of MDO-PE films with cast technology. Our portfolio includes various solutions for the production of “green” films, with a high recycled content or suitable for complete recycling, in order to satisfy practically all market requests.” said **Nicola Lombardini, R&D Manager of Colines.**

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#### **About TotalEnergies and Polymers**

TotalEnergies develops, produces and commercializes polymers — polyethylene, polypropylene, polystyrene, their recycled equivalents and biopolymers — that can be incorporated in the plastics manufacturing process. Lighter than many alternative materials, they help reduce the carbon footprint of end-use applications through enhanced energy efficiency. TotalEnergies’ polymers experts in Europe, Asia and the United States of America are working alongside all the professionals in the value chain, including plastic manufacturers, research centers, waste collection and sorting companies, and their customers to accelerate in the circular economy. The Company is developing different plastic recycling processes and using renewable raw materials, with the ambition to commercialize 30% circular polymers by 2030.

#### **About TotalEnergies**

TotalEnergies is a global multi-energy company that produces and markets energies: oil and biofuels, natural gas and green gases, renewables and electricity. Our more than 100,000 employees are committed to energy that is ever more affordable, cleaner, more reliable and accessible to as many people as possible. Active in more than 130 countries, TotalEnergies puts sustainable development in all its dimensions at the heart of its projects and operations to contribute to the well-being of people.



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#### **About Colines**

COLINES® manufactures extrusion lines with experiences arising in 1970 and developed with a constant growing in the succeeding years. The production program includes:

- Cast and blown co-extrusion lines for the production of the following types of film: stretch film, CPP film, CPE film, barrier film, breathable film and embossed film (included MO Barrier film, MOPP, MOPE).
- Lines for the production of Bubble Guard® Board and Flex in PP (patented technology).
- Lines for PE air bubble film.
- Lines for the production of PVC gaskets for refrigerators.

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