



PRESS RELEASE

TotalEnergies and Windmüller & Hölscher Renew Partnership with a New Recyclable Oil and Lubricant Pouch Containing 35% Recycled Plastic

Brussels, Belgium, October 8, 2025 – TotalEnergies and Windmüller & Hölscher have once again joined forces to develop an innovative packaging solution for oil and lubricant applications, fully embracing a circular approach.

The newly developed pouch features a recyclable PE/PA multi-layer structure made of Polyethylene from TotalEnergies' Lumicene® and Lumicene Supertough® ranges. In addition, it incorporates 35% recycled polymer, thanks to the use of TotalEnergies rPE 2206, a mechanically recycled post-consumer grade.

Leveraging AQUAREX water-quenching technology, the new pouch achieves a thickness of just 170 µm — representing an 83% reduction in material use compared to the standard 1-liter HDPE rigid container that has typically a thickness of 1000 µm.

This latest innovation builds on the companies' previous successful collaboration, which demonstrated [the feasibility of a fully recyclable high-barrier stand-up pouch suitable for food-applications](#). It further underscores TotalEnergies' and Windmüller & Hölscher's shared commitment to advance circularity in packaging solutions.

This new pouch will be exhibited at K 2025 in Düsseldorf from October 8-15, at TotalEnergies' stand (E20/Hall6) and Windmüller & Hölscher' stand (A57/Hall17). The films will also be processed during Windmüller & Hölscher's "inhouse expo" in Lengerich from October 9-10 and 13-14.

"This innovative oil and lubricant pouch illustrates our integral approach to polymer development: we rethink the use of plastics by designing recyclable materials, we reduce their impact by reducing thickness, and we foster circularity by integrating recycled polymers" said **Olivier Greiner, Vice President, Polymers Europe & Orient at TotalEnergies**.

"This pouch is a tangible example of the industry's major megatrends: designing packaging for recyclability and integrating recycled materials into new products. Achieving this vision requires collaboration across the entire value chain. Only by working together can we close the loop and drive true circularity." said **Dr. Torsten Schmitz, Managing Director Business Unit Extrusion at Windmüller & Hölscher**



Picture of the oil and lubricant pouch developed by Totalenergies and Windmüller & Hölscher

About TotalEnergies

TotalEnergies is a global integrated energy company that produces and markets energies: oil and biofuels, natural gas, biogas and low-carbon hydrogen, renewables and electricity. Our more than 100,000 employees are committed to provide as many people as possible with energy that is more reliable, more affordable and more sustainable. Active in about 120 countries, TotalEnergies places sustainability at the heart of its strategy, its projects and its operations.

TotalEnergies develops, produces and commercializes polymers — Polyethylene, Polypropylene, Polystyrene, their recycled equivalents and bio-based polymers — that can be incorporated into 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 reach one million tons of circular polymers by 2030. TotalEnergies strategy for polymers is based on an integral approach to polymer production: Rethink the use - Reduce the impact - Recycle and develop circularity.

About Windmüller & Hölscher

Windmüller & Hölscher, a family-owned company, is world leader for machinery and systems for the manufacturing and converting of flexible packaging. The product portfolio includes high-performance machines for film extrusion, printing and converting. As a global company W&H offers its clients everything from a single source: from expert consultation and engineering to the delivery of high-quality machines and complete packaging production lines. Approximately 3,200 employees create optimal solutions for the individual production tasks of flexible packaging producers – bringing the corporate philosophy “Passion for innovation” to life. Machines by Windmüller & Hölscher are in use in over 130 countries and by more than 5,000 customers. In 2021 the Windmüller & Hölscher Group with its headquarters in Lengerich, Germany reached sales of approximately 969 Mio. EUR.

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This press release and associated photographs can be downloaded from www.polymers.totalenergies.com and www.PressReleaseFinder.com.