

# Game-Changing Technologies

The plastics industry is at the forefront of a *transformative journey*, embracing cutting-edge technologies to build a more sustainable and efficient future.

Dive into various technologies helping *advance circularity* in the plastics industry.

Technology	Overview	Advantages
<div><b>Mechanical Recycling</b></div> <div></div>	<div>→ Mechanical recycling still stands as a cornerstone for recycling plastic materials. This process involves collecting, cleaning, sorting, and repelleting plastics to allowing materials to be reprocessed into new products, contributing to a more sustainable and circular economy.</div>	<div>Reduces plastic waste.</div> <div>Incorporates recycled materials into new products.</div>
<div><b>Smart Sorting Technologies</b></div> <div></div>	<div>→ Automated sorting technologies, driven by artificial intelligence and machine learning, can revolutionize the sorting process. These technologies improve sorting accuracy, leading to higher-quality recycled materials, increased recycling rates and improved efficiency.</div>	<div>Minimizes non-recyclable material contamination.</div>
<div><b>NOVA Chemicals' SURPASS® Polyethylene Resin</b></div> <div></div>	<div>→ SURPASS polyethylene resins redefines packaging efficiency with its advanced properties. This resin creates high-performance and sustainable packaging solutions, aligning with the industry's commitment to eco-friendly practices.</div>	<div>Provides substantial lightweighting opportunities for packaging.</div>



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<b>Advanced Recycling Technologies</b> 	<p>Advanced recycling involves converting plastic waste into valuable products through chemical conversion processes. This method offers an alternative way to manage certain types of plastic waste. It generates plastics from waste that are indistinguishable from virgin plastic.</p>	<p>Breaks the plastic down to its building blocks for use manufacturing new plastic or replacing fossil feedstocks in other manufacturing processes.</p> <p>Low carbon emissions compared to virgin plastic manufacturing.</p>
<b>Farnell's Glacier™ Packaging Film</b> 	<p>Glacier Packaging Film represents a breakthrough in sustainable packaging solutions for fish and meat. Engineered with advanced materials, the packaging is recycle ready, preserves freshness, offering a combination of durability and environmental consciousness.</p>	<p>Recycle-ready film provides a sustainability advantage over other film options.</p> <p>Maintains integrity and strength for food packaging applications.</p>
<b>eMobility Innovations</b> 	<p>The eMobility sector is at the forefront of innovation, demanding high-performance materials for cutting-edge solutions. Plastics play a crucial role in meeting the stringent requirements of electric vehicle technologies, contributing to lighter, more efficient, and sustainable transportation.</p>	<p>Lightweight and durable components for electric vehicles.</p> <p>Improves energy efficiency in eMobility solutions.</p>

**SAVE PLASTIC**