

May 2025

Materials & Packaging

Energy

Waste Monetization



Technology

LACERTA®

[Lacerta Plans to Launch New Seal N' Flip™ Packaging in Aug 2025](#)

Lacerta's new Seal N' Flip™ packaging features a unique bottom-sealed design that reduces plastic use by up to 50% and packaging costs by 25%, while enhancing shelf appeal and supporting sustainability. It offers tamper resistance, leak protection, and ease of use—making it ideal for grab-and-go food products.



[Fast-Charging, Long-Lasting Supercapacitor Material](#)

Nagaland University has developed supercapacitor electrodes using aminated graphene, enabling faster charging, longer lifespan, and lower costs—without the use of rare-earth elements. This innovation supports the growing demand for efficient and sustainable energy systems in electric vehicles, renewable energy, grid storage, etc.



[Veolia Completes Testing on PFAS Waste Incineration](#)

Veolia conducted a comprehensive PFAS incineration tests, proving high-temperature incineration destroys over 99% of targeted PFAS, including 99.99% of PFOS and PFHxS. Using EPA-guided methods, the study confirmed minimal residues in air, solids, and liquids. The findings support Veolia's end-to-end PFAS management under its GreenUp strategy.



Regulation



[Simpler Recycling Guidance Updates](#)

The UK's Simpler Recycling Reforms now include fibre-based composite packaging, such as liquid cartons, in the plastic recycling stream. This aims to provide consistent recycling access for all households and workplaces in England, simplifying the process, reducing confusion, and diverting more waste from landfill.



[India Issues Draft for Solar PV Modules](#)

The Ministry of New and Renewable Energy has released draft guidelines for series approval and testing of solar PV modules under the 2025 Solar Goods Order. The guidelines define "product families" based on component configurations and mandate performance testing of sample modules across the power range to ensure quality and BIS compliance.

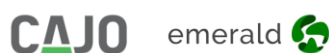


[California Advances Landmark Plastic Waste Regulation](#)

CalRecycle is proposing permanent regulations for California's SB 54, a landmark law shifting plastic waste responsibility to producers. It mandates recyclable / compostable packaging, recycling targets, and \$5 billion in producer fees. Stakeholders are also invited to review and provide feedback.



Finance



[Cajo Technologies Raises Funds to Scale Eco-Friendly Laser Marking](#)

Finnish firm Cajo has secured funding from Emerald Technology Ventures to expand its eco-friendly laser marking technology globally. The solution replaces ink, labels, and chemicals—reducing waste and cutting the carbon footprint by 90%. Cajo's systems are already used across industries in over 80 countries, including metal, cable, battery, and packaging.



[ACWA Power Signs \\$500M Deals With US Firms](#)

ACWA, an energy transition and water desalination company, has signed new MoUs with U.S. firms, adding to \$6 Bn in partnerships to support KSA's net-zero goals. The agreements aim to deploy advanced tracker technologies for PV solar projects, lowering energy costs and boosting local manufacturing capabilities.



[Composting Consortium Unveils Grant Program](#)

The Composting Consortium, in partnership with USCC and BPI, has launched a grant program to help U.S. composters and municipalities expand their capacity to process certified compostable packaging and food scraps. Funds support equipment upgrades, trials, and education, aiming to strengthen composting infra and advance zero waste and circular economy goals.

May 2025

Materials & Packaging

Energy

Waste Monetization



[Taghleef Launches Eco-Friendly SynDECOR® at Interzum 2025](#)

Taghleef introduces sustainable, PVC-free SynDECOR® decorative films—made from recyclable PP and PET—at Interzum. The range includes high-definition print-base films, durable wear layers, and embossed foils for furniture applications, offering eco-friendly alternative to traditional laminates that reduce carbon footprint and improve processing efficiency.



[Razor-Thin Fuel Cells Cut Costs and Boost Eco-friendliness](#)

Norwegian researchers at SINTEF have developed a thinner hydrogen fuel cell membrane (10µm vs. 15µm), reducing platinum use by 62.5% and PFAS chemicals by 33%, reducing costs by 20%. The innovation aims to boost efficiency without performance loss, making fuel cells cheaper, greener, and ideal for heavy transport, maritime, aviation.



[TUHR, an AI and IoT Based Waste Management System](#)

TUHR, an AI- and IoT-based waste management system, uses sensors to detect full bins and hazardous gases, triggering real-time alerts for efficient pickup. It reduces health risks, fuel use, and supports Saudi Arabia's Vision 2030 for smart, sustainable cities



[UK notifies EU of changes to packaging regulations](#)

The UK has formally notified the EU of its intent to amend packaging EPR rules for Northern Ireland to address initial challenges, enhance recycling outcomes, and maintain legal alignment ahead of Year 2 of the scheme in 2026. The government plans to present the revised regulations in Parliament in November 2025.



[Great British Energy Bill Passed in Parliament](#)

The UK Parliament has passed the Great British Energy Bill, establishing a publicly owned energy company backed by £8.3 billion. It will invest in clean power projects nationwide, support local solar and wind initiatives, reduce energy bills, and create jobs. Community funds have launched in Scotland and Wales to expand renewable access.



[Stricter Control Values for Organic Waste Collection](#)

Germany's updated Organic Waste Ordinance (BioAbfV) introduces stricter limits on contaminants, particularly plastics, in organic waste. Organic waste containing more than 3% total contaminants by fresh mass may be rejected, while the specific limit for plastic particles larger than 20mm is set at 1%.



[Diamond Edge Ventures Announce Investment in Freshr](#)

Mitsubishi Chemical's Diamond Edge Ventures has invested in Freshr Sustainable Technologies. Freshr has developed a technology platform (proprietary) that enhances food packaging with natural active ingredients, extending shelf life and reduces waste throughout the supply chain.



[ADNOC Deepens Energy Partnerships with US Companies](#)

ADNOC signed multiple deals with US firms enabling \$60B of US investments in UAE energy projects, including expanding Upper Zakum with ExxonMobil & INPEX, boosting Shah Gas Field with Occidental, awarding EOG a new unconventional oil exploration concession, etc.



[Maine DEP Announces Increased Grant Funding](#)

The Maine DEP has increased waste diversion grant funding to \$250,000, with individual grants up to \$50,000. The grant support development, implementation or improvement of programs, initiatives or activities designed to increase the diversion of solid waste from disposal.



Technology



Regulation



Finance