

March 2025

## Materials & Packaging

## Energy

## Waste Monetization

### Technology

**corvaglia**

#### [Corvaglia unveils SabreCap: aseptic carton closure](#)

Corvaglia Group introduced *SabreCap*, its first aseptic carton closure. The solution ensures clean cuts, reduces packaging residue after pouring, enables easy handling, integrates seamlessly into carton filling lines, and is fully recyclable—enhancing sustainability and operational efficiency.

**imec**  University of Cyprus

#### [Scientist confirms perovskite stability outdoors](#)

Researchers from the Interuniversity Microelectronics Centre and the University of Cyprus, evaluated the real-world stability of perovskite-based photovoltaic cells. Their study found that perovskite (solar) mini-modules retained 78% efficiency after one year, highlighting their industrial potential.

**LUNDBERG**  
Our waste handling keeps production going

#### [Lundberg tech launches new waste-handling unit](#)

Danish firm Lundberg Tech introduced the 160-series, a waste-handling system that captures, transports, cuts, and compacts production and packaging waste. It features enhanced separator capacity, an antistatic coating, and improved filtration for recyclability.

### Regulation



#### [Singapore unveils e-commerce packaging waste reduction guidelines](#)

Singapore introduced new guidelines to help e-commerce businesses reduce packaging waste. It offers practical recommendations for "3R" strategies (reduce, reuse, recycle) for cardboard boxes, mailers, and fillers. Moreover, it also features a scorecard tool for companies to assess their sustainability efforts.



#### [EU updates waste list to boost battery recycling](#)

The European Union (EU) reclassified "black mass" from batteries as hazardous waste, tightening shipment controls and supporting circular economy goals by keeping critical materials in the European economy for longer. The amendment takes effect 20 days after its publication in the EU's Official Journal.



#### [UK government to create sector specific roadmap to reduce waste](#)

The UK government launches a Circular Economy Taskforce to develop sector-specific roadmaps for textiles, agrifood, transport, construction, chemicals, and plastics. It aims to help businesses with the clarity and direction needed to invest in sustainable practices and infrastructure.

### Finance

**Vytal**

#### [Vytal global raises EUR 14.2 mn to expand reusable packaging solutions](#)

Vytal Global GmbH raised EUR 14.2 Mn funding, led by Inven Capital and NRW.Venture, to accelerate international expansion and establish tech-enabled reusable packaging. The recent funding came within the nine months of last funding raised by the company in 2024.



#### [Republic of Congo secured grant from AfDB to enhance energy sector](#)

The African Development Bank (AfDB) has approved two grants totaling USD 1.5 Mn for the Republic of Congo to support hydroelectric dam development and high-voltage transmission line expansion connecting Pointe-Noire, Brazzaville, Loudima, and Djambala.



#### [Florida allocates USD 389 mn for water quality improvement](#)

Florida government announced USD 389 Mn in state grants to enhance Florida's water quality, targeting nitrogen and phosphorus reduction into the Indian River Lagoon, Biscayne Bay, Caloosahatchee River, and other state coastal waters. It also aims upgradation of wastewater treatment units.

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### Technology



#### [Hinojosa & KHS introduced innovative bottle transport solution](#)

Hinojosa Packaging and KHS launched the BottleClip Carrier, a biodegradable cardboard alternative to plastic film for bottle transport. It reduces material usage by up to 85% and lowers energy consumption during production.



#### [Scientists confirm structured water networks enhance ion transport in batteries](#)

Researchers from University of Chicago Pritzker School of Molecular Engineering and Tandon School of Engineering discovered that well connected water network, not free-flowing water, can optimize ion transport and enhance anion exchange membrane efficiency in batteries.



#### [Moltex WATSS – Nuclear Waste-to-Salt Recycling Process](#)

Moltex unveiled WATSS (Waste-to-Stable-Salt), a breakthrough process that extracts ~90% of long-lived transuranic elements from spent nuclear fuel in 24 hours. This reduces high-level waste and converts it into reusable stable salt fuel.



### Regulation



#### [Canada to prohibit PFAS in consumer and industrial packaging products](#)

Canada proposes phasing out toxic "forever chemicals" from consumer products starting in 2027, banning per- and polyfluoroalkyl substances (PFAS) in firefighting foams, cosmetics, food packaging, and textiles to protect health and the environment.



#### [Germany's new government to overhaul energy policy](#)

German government is expected to roll back energy target and related policies due to rising concerns over high energy costs and security, impacting both domestic and European energy markets. The government also plans to create EUR 500 Bn infrastructure fund to upgrade outdated power grids.



#### [Vietnam seeks global input for upcoming e-waste EPR framework](#)

The Vietnam government is collaborating with International Finance Corporation-IFC and United Nations Development Programme-UNDP to refine its extended producer responsibility (EPR) framework for e-waste, a step towards waste management and circular economy policy.



#### [Fiberdom secured grant to commercialize its patented wood fiber-based packaging](#)

Finnish startup Fiberdom secured EUR 3.5 million from Heino Group and Nordic Foodtech VC to advance the development of FSC-certified, recyclable, and home-compostable packaging made from pulp and paperboard.



#### [Singapore to invest USD 300 Mn to boost energy efficiency in public building](#)

Singapore to launch a pilot by 2026 to test the viability of carbon capture technologies at its waste-to-energy plants. Also, the government is planning to invest SGD 300 Mn over five years to enhance energy efficiency in public building, supporting net zero goals.



#### [East Africa secures EIB funding for climate resilient development](#)

The European Investment Bank (EIB) has granted EUR 1.2 Mn to East African cities to support climate resilient and urban development initiatives, including, solid waste management and waste to energy projects.



### Finance