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Plastics Recycling WORLD

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Nova starts up PE film recycling facility in US

Nova Chemicals has commissioned its first PE film recycling facility, dubbed Syndigo1, in Connersville, Indiana, US.

The facility spans 137,160m² and will produce over 45,359 tonnes/yr of recycled PE (rLLDPE) making it one of the largest and most sophisticated plastic film mechanical recycling facilities in the world, it said.

"Our Syndigo1 facility is a tangible example of what motivation, collaboration, and market demand can do together," said Nova Chemicals CEO Roger Kearns. "As of today, we're not only a petrochemicals producer but also a recycler of polyethylene. We're diverting plastic waste from landfills and turning it into new, quality products that help keep our food fresh or safely transport goods and materials to store shelves."

Today, three of four lines are in operation, and the facility will be fully operational by early 2026. Nova is

IMAGE: NOVA



Ribbon-cutting at the opening of the Syndigo1 plant in Connersville

currently working with several film manufacturers and distributors to incorporate recycled polyethylene into flexible packaging, with demand for post-consumer recycled plastic set to triple by 2030, according to McKinsey.

Nova announced its intention to build the facility and work with Novolex to operate it in July 2023, intending to capitalise on its nearly 20 years of experience in operating plastic film recycling facilities.

In 2024, the facility's

mechanical recycling process received a first-of-its-kind Letter of Non-Objection from the US Food and Drug Administration confirming its ability to produce post-consumer rLLDPE suitable for food-contact applications. In April this year it achieved the Recycled Material Standard certification from Green Blue, verifying that the Syndigo-branded material produced at the facility is 100% post-consumer recycled content.

➤ www.novachem.com

Greenhouse films to be taken back

Greenhouse films are now part of the Erntekunststoff-Recycling Deutschland (ERDE) system, a recovery and recycling method for crop plastics that actively contributes to sustainable agriculture in Germany.

After collection, the films are recycled by specialised European partners into high-quality recyclate meaning the initiative not only promotes resource conservation, but also offers farmers more end-of-use alternatives.

In addition to Plastika Kritis, which supported pilot collections last year, further manufacturers such as Groupe Barbier, RKW SE and Reyenvas, are now involved in the scheme. With around 700 collection points and over 150 collection partners, the take-back system is already well-established in Germany.

➤ www.erde-recycling.de

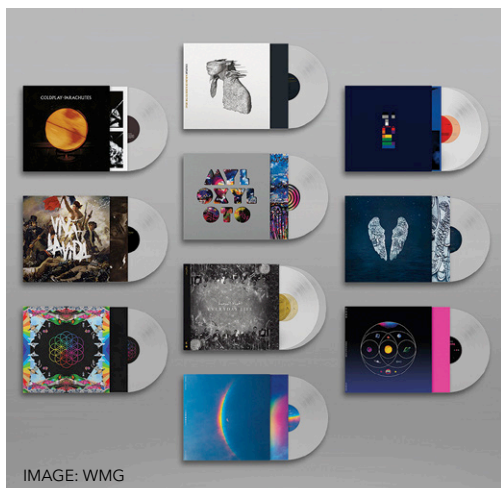


IMAGE: WMG

Coldplay give fans eco option

UK band Coldplay are re-releasing all their albums as clear 140 g EcoRecords which reduces carbon emissions by 85% compared with traditional vinyl production. EcoRecords are said to look and sound virtually identical to traditional vinyl but have been manufactured using 100% recycled PET.

Each 140g injection moulded LP is made from, on average, nine recycled PET plastic bottles. This move follows the launch last year of Coldplay's Moon Music album, the world's first album to be released as a 140 g EcoRecord rPET LP.

"The shift to EcoRecord is a testament to what's possible when innovation meets intention," said Jen Ivory, Managing Director of Parlophone, a division of Warner Music Group.

➤ www.wmg.com

Amcor invests in Kentucky

Amcor has announced an investment in its Nicholasville, Kentucky, US, facility to increase its PCR packaging production capabilities. The improvements include dedicated silos that feed multiple production lines to enable precise PCR blending, giving customers the ability to choose their optimal PCR percentage, which is offered for custom and stock rigid packaging.

Greg Rosati, Vice President, Amcor Rigid Packaging North America, said: "This facility gives customers more choices for the recycled content levels of their packaging and reinforces Amcor's commitment to a circular economy." He added that while the investment was made to support spirits customers, there are opportunities to support customers across other segments.

In fiscal year 2024, Amcor increased its purchase of PCR polymers by more than 50,000 tonnes compared to the previous year.

➤ www.amcor.com

PepsiCo reworks its sustainability goals

Food and beverage giant PepsiCo has announced changes to its packaging targets and other sustainability goals across the business. The changes include "sunsetting" its packaging reuse target, and discontinuing the goal of reducing use of virgin plastic by 20% by 2030.

By refining the Pep+ (PepsiCo Positive) business strategy it launched in September 2021 and using the data collected thus far, the company said it is further aligning resources with core business priorities and helping its sustainability ambitions remain actionable and achievable.

"Our sustainability journey will not always be linear, but we are focused on doing the work that can both strengthen our



IMAGE: PEPSICO

business resilience and support a positive impact for the planet," said Jim Andrew, PepsiCo Executive Vice President and Chief Sustainability Officer. "We will continue to embed sustainability into our company in ways that aim to enhance the strength, adaptability, and future growth of our business."

In refining its sustainability goals, PepsiCo said it is

strengthening its business and honing its focus to where it believes it can have the most positive impact. By prioritising efforts in key packaging markets, continuing work to reduce its use of virgin plastic, and improving the design of its packaging, the company plans to focus on investments that improve the packaging lifecycle, it said.

➤ www.pepsico.com

New Plexiglas recycling program

Pekutherm Kunststoffe and Polyvantis have launched a joint take-back and recycling program for rests and off-cuts of Plexiglas semi-finished waste products.

The materials are sorted,

processed and granulated at Pekutherm, the recycled raw materials returned to Polyvantis to be re-incorporated into Plexiglas products, as is the case with the particularly resource-effi-

cient proTerra variant.

Traders and processors can participate in the programme across Europe, said the companies.

➤ www.pekutherm.de

➤ www.polyvantis.com

French project targets carbon fibre composites

Westlake Corp has announced that Westlake Epoxy will collaborate with Alpha Recyclage Composites to scale up recycling capacity for carbon fibre composite materials.

The collaboration will support Westlake's composite customers in

their development of improved circular options for both production and end-of-life waste.

Alpha Recyclage Composites, a family-owned company based in Toulouse and Castelsarrasin, France, specialises in recycling carbon fibre-

reinforced composites through a patented steam pyrolysis process. It plans to expand its current batch unit to a semi-continuous operation, targeting a capacity of 1,000 tonnes/yr by 2027.

➤ www.westlake.com

➤ www.arcomposites.com

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www.herbold.com

www.coperion.com



Work starts on major facility in Belgium

Morssinkhof-Rymoplast Group has broken ground on a new plastics packaging recycling facility in Lommel, which will service approximately 4m Belgian households – around 80% of Belgium's total. Once operational, it will turn everyday household waste such as milk bottles, butter tubs, and shampoo containers, into high-quality recycled materials that can be used again in packaging.

"Despite the challenges facing the recycling industry, we remain fully committed to our mission: transforming plastic waste into high-quality materials that can be used again and again," said Evy Morssinkhof, Organisation & Business Development of Morssinkhof-Rymoplast Group. "This new facility is not only an investment in infrastructure but a promise to Belgian households that



Morssinkhof-Rymoplast's plastics packaging recycling operations include a plant in Heerenveen, Netherlands

their efforts to recycle make a difference."

The company, which is owned by Ingka Investments, said that despite mounting challenges in the recycling sector – from rising costs and labour shortages to shifting regulations – this development sends a clear signal that building a circular future takes bold commitment, collaboration,

and long-term investment.

In many aspects, Belgium is taking the lead in the quest for sustainability in Europe, according to the company. Five years ago, only 9% of household plastic packaging was recycled domestically. Today, that figure is 69% and is projected to surpass 75% by next year.

➤ <https://morssinkhof-rymoplast.com>

IN BRIEF...

Recycler and compounder **Hoffmann + Voss** has become part of the PolymerCycle Group, an integrated platform for plastics recycling with six production sites across Germany offering end-to-end solutions across the entire value chain.

<https://hoffmann-voss.de>

Tomra Recycling has appointed Katrin Fricke as new Executive Vice President and Head of Tomra Recycling, effective 1 June 2025. She succeeds Volker Rehrmann who is retiring after two decades with the company.

www.tomra.com

The **Sophia project**, an EU-funded Horizon Europe project that aims to implement Advanced Digital Solutions in end-of-life solar panels to increase their current reuse, repair and recycling rates, has launched.

<https://euric.org>

Erema reports lower sales and mixed markets

Plastics recycling machinery group Erema said it experienced a decline in sales of around 13% to €330m in the 2024/25 financial year.

Despite this, the Austrian company said it has maintained stability and set an important strategic course based on its strong market presence. The range of technologies and solutions offered by the companies in the Erema Group mean that it covers the entire value chain of mechanical plastics recycling.

While the European market has been subdued, the group has experienced positive momentum in North America and Asia. Recently, it has

noticed a reluctance to invest in the polyolefins post-consumer segment, but said demand for recycling solutions for production waste and bottle-to-bottle applications has remained stable and there is a clear trend towards implementing larger-scale machines in both the PET and PO sectors.

Furthermore, the company notes that the growth of plastics recycling can be seen not only in established segments, but increasingly in newer application segments involving chemical recycling and fibre/textile recycling.

➤ <https://erema-group.com>



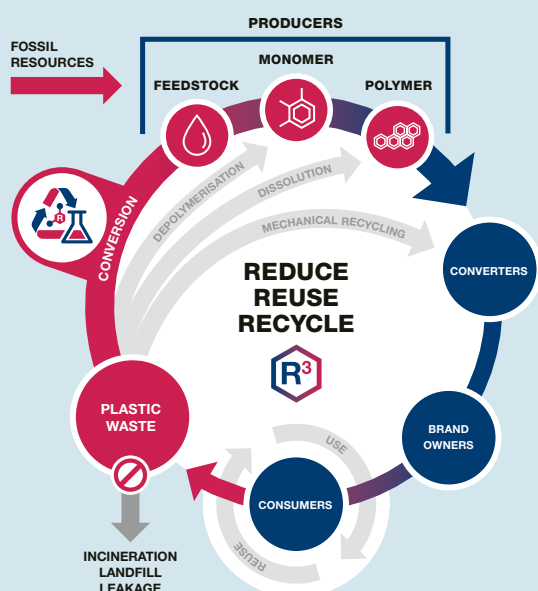
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Commission reveals allocation method for mass balance

The European Commission (EC) has launched a public consultation on rules for calculating recycled content in single-use plastic beverage bottles, including chemically recycled content. This is an important step as the mass balance approach used by producers of chemically recycled plastics can be applied using different methods to determine the percentage content of recycle.

"The methodology for calculating this [recycled content] is based on the 'fuel-use excluded' allocation rule, which means that waste used to produce fuels or energy recovery cannot be counted as recycled content, in line with the definition of 'recycling' in the Waste Framework Directive," said the EC.

There had been slow progress in negotiations with member states on the issue, although the EC said last



year it supported the Fuel-Use Excluded method, which provides a freer allocation than the Proportional and Polymers Only options (*Plastics Recycling World* September 2024). It said that agreeing on a clear calculation methodology "will create a level

playing field and provide investment security for the sector in a technology-neutral way".

It said: "The calculation methodology will serve as a model for future recycled content rules in other sectors, such as packaging, automotive and textiles. This approach is designed to give investors confidence in the long-term stability and potential of these technologies."

In order to achieve its recycling targets, the EU supports all recycling technologies although "mechanical recycling is typically preferred as it is less polluting and more energy-efficient than chemical recycling". But "chemical recycling provides a valuable alternative" when mechanical recycling is not feasible or when higher quality standards are needed, the EC said.

➤ <https://environment.ec.europa.eu>

New venture for construction

Sika and Sulzer have signed a memorandum of understanding to advance plastics recycling in the construction industry.

The companies plan to develop a system for the collection, processing and reuse of these materials and will use both mechanical

and chemical recycling processes.

The joint venture, based in Zurich, Switzerland, will be founded as an independent company with each partner holding a 50% stake. Operational activities will commence in the second half of 2025 with pilot

projects in Germany, Austria, and Switzerland.

The offering will be complemented by local partners, such as logistics and recycling companies, which will be integrated into specific process steps.

➤ www.sika.com

➤ www.sulzer.com

New mattress plant in France

RetourMatras, in collaboration with Ingka Investments, has opened a mattress recycling facility in La Cavalerie, France.

Using what the company says is cutting edge technology to recover up to 80% of

constituent materials, the facility is capable of processing up to 750,000 discarded mattresses into valuable raw materials per year. The project is part of Ingka Investments' €1bn plan to invest in companies

that are growing recycling infrastructure.

Each year, Ecomaison collects approximately 4m discarded mattresses throughout France, which are dismantled.

➤ www.retourmatras.nl

IN BRIEF...

Brazilian chemical company **Braskem** is to divest its controlling stake in Upsyde, a recycling joint venture in the Netherlands with Terra Circular, and says in future it will focus on its core chemicals and plastics production.
www.braskem.com.br

ReVentas, a Scottish start-up involved in dissolution recycling, has secured Series A funding which the company says will enable the scaling of its technology for recycling PP and PE from pilot plant to commercial operation over the next three years.
<https://reventas.co.uk>

Policy and politicians are showing the influence they exert over how the automotive plastics recycling sector develops, writes James Snodgrass

IMAGE: SHUTTERSTOCK



The road ahead for automotive circularity

What a difference a year makes. If 2024 was the year that the circular economy became mainstream, 2025 is the year of “drill, baby, drill”. The seismic political shift in the world’s largest economy – thanks to the election of President Trump in the US – will have significant consequences globally. Policies that could bring down the price of crude oil may make mechanically recycled polymers less financially viable than virgin polymers. This is particularly worrying for the ELV (end-of-life vehicles) sector, where the extraction of the recyclable plastics is relatively complicated and onerous compared with the recycling of single-material packaging.

In Europe, recycling organisations have been concerned about the potential impacts on the development of ELV recycling from the EU’s ELV Regulation proposals. In February, responding to the European Parliament’s draft report on ELV

regulation, organisations including **EuRIC**, FEAD, PRE, T&E, ECOS, and EEB, sent out a joint statement urging policymakers to uphold the European Commission’s original target of requiring 25% of plastics used in new cars to come from recycling. Such changes risk slowing progress toward a truly circular automotive sector, the joint statement said. The signatories said that maintaining ambitious recycled content benchmarks is essential to drive investment in the technologies and infrastructure necessary to efficiently recycle ELV plastics, improve material recovery rates, and minimise waste sent to energy recovery or landfills.

In June, the European Council announced that its position was in favour of a phased introduction of the recycled plastics content target: 15% by six years after the entry into force of the regulation, 20% by eight years after, and 25% by ten years after.

Katharina Schlegel, Circularity Director at **Plastics**

Main image:
Waste car parts will become a source of plastics for new parts under future EU regulation

Europe, said: "While we welcome the retention of the 25% target, Plastics Europe agrees with the Commission proposal for the target to come into force after 72 months, rather than 120 as proposed by the Council. We believe that a minimum target of 25% of recycled content in automotive plastics by applying all recycling technologies, with up to 5% coming from circular sources such as bio-based feedstock, is realistic and achievable."

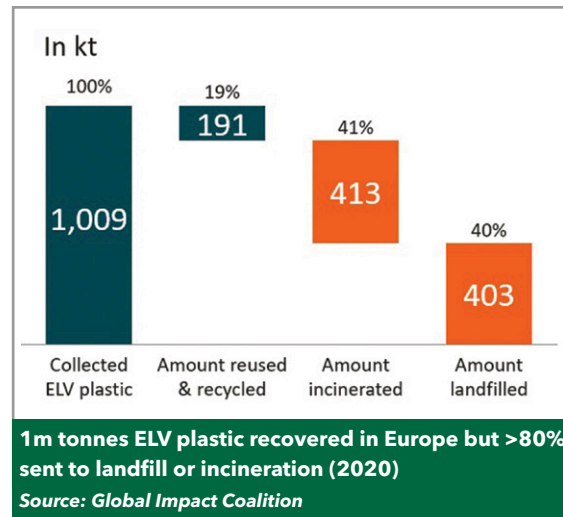
EuRIC criticised the Council's proposal: "Lowering the recycled content target from 25% to 15% is a step backwards." It said: "While we acknowledge that the scope of the recycled content targets remains as proposed by the Commission, the reduction in ambition sends the wrong signal to recyclers, manufacturers, and investors. Maintaining the 25% recycled plastic target from post-consumer waste – including the 25% closed-loop share – would have sent a clear, coherent signal to scale up investment in circular value chains for plastics."

Members of the European Parliament will vote in September on its own proposal for phased introduction, which received backing at the committee stage in a vote in early July.

Global impact

Despite uncertainties surrounding circularity policy, plastics and recycling industry groups are partnering in projects that anticipate car manufacturers using more recycled plastics. In February, it was announced that a global coalition of leading companies in polymers and recycling – including BASF, Covestro, LyondellBasell, Mitsubishi Chemical, Sabic, Suez, and Syensqo – had joined with **Global Impact Coalition** (GIC) to launch what they called "the world's first automotive plastics circularity pilot". Taking place in the Netherlands and Germany, the pilot will dismantle, sort, and recycle plastics from 100 ELVs, testing advanced recycling solutions under real-world conditions. By engaging

Below: Sumika Polymer Compounds is expanding PP recycling capacity in Saint-Martin-de-Crau, France



dismantlers, shredders, and recyclers, the initiative seeks to prove the economic viability of closed-loop recycling at scale.

Charlie Tan, CEO of GIC, said: "This collaboration represents a turning point for the industry. Recycling ELV plastics has long been a challenge, with less than 20% of these materials recycled today. By uniting players from across the automotive value chain – from auto makers to dismantlers, sorters, recyclers and the chemical industry – we are connecting the links to close the loop on plastics."

A report in *The Japan News* in March said that a consortium had set targets to incorporate over 15% recycled plastic in car production by 2031, and over 20% by 2036. The initiative aims to enhance domestic plastic recycling and strengthen resource security in response to upcoming EU regulations. The consortium includes the Japan Automobile Manufacturers Association (which includes Toyota), the Japan ELV Recycler's Alliance, the Japan Plastics Industry Federation, and government agencies. An action plan outlining these targets was finalised during a meeting at Japan's Environment Ministry, said the news report.

The Japanese government plans to support investment in recycling infrastructure and foster collaboration among automakers, dismantlers, and recyclers, according to the news report. The supply of recycled plastic from ELVs is set to reach 21,000 tonnes annually by 2030, rising to 157,000 tonnes by 2036 and 200,000 tonnes by 2041.

A European expansion project by Japanese group **Sumika Polymer Compounds** will give it capacity to process 10,000 tonnes of plastic waste annually into recycled PP granules. The €15m project is under construction at its Saint-Martin-de-Crau facility in France. A subsidiary of Sumitomo Chemical, Sumika specialises in thermoplastic and elastomeric compounds, supplying 90% of its

output to automotive OEMs. The expansion includes a new 5,000 m² building.

The project is supported by RisingSUD (a regional development agency for the south of France) and financed through France 2030, ADEME, and a €300,000 subsidy from the Sud Region (Provence-Alpes-Côte d'Azur). It aims to create 30 new jobs over the next three years, adding to the current workforce of 55.

Sumika's European President, Ludovic Seynave, said: "This state-of-the-art facility will efficiently transform polymers from end-of-life vehicles into high-quality raw materials, meeting the technical and environmental requirements of the automotive and manufacturing industries. Our commitment is part of a circular economy approach, guaranteeing a significant reduction in the carbon footprint and optimal recovery of plastic resources."

Also in France, **Materi'act**, part of the Forvia group, has secured €6.3m in state funding – through France 2030's Coram 2024 initiative – for its Mature project. This initiative focuses on developing high-performance materials using up to 100% recycled and bio-sourced components, creating lighter, more sustainable, and recyclable automotive materials.

Car makers

In South Korea, another global car-making hotspot, **SK Chemicals** showcased its latest sustainable recycling innovations for the automotive sector at the Auto Parts Industry ESG-Net-Zero Expo in March. At the

event, which was jointly organised by Hyundai and Kia, plus government agencies, the materials producer introduced its Car-to-Car Closed-Loop Solution, which is intended to cover a car's entire lifecycle, from collecting end-of-life vehicle parts and converting them back into raw materials, to using circular recycling technologies to create new materials

and commercial products. A highlighted example focused on used airbags, which the company said can be collected, chemically recycled, and re-manufactured into new airbags, effectively closing the recycling loop within the automotive industry.

Toyoda Gosei, a supplier to Toyota and other car makers in Japan, said in May it has developed a new

technology to recycle high-quality ELV plastics in order to meet the growing demand for recycled plastic in the automotive industry against strengthened environmental regulations. It said: "This technology will contribute to decarbonised, circular economy through its use in various vehicles models starting with the Toyota Camry."

Toyoda Gosei has

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New recyclability protocols for automotive and E&E plastic applications

European standardisation platform **RecyClass** has published the first set of Recyclability Evaluation Protocols for Automotive and Electrical & Electronic Equipment sectors.

Established in collaboration with the plastic value chain and based on European state-of-the-art recycling infrastructure, the protocols focus on polymers that are commonly recovered and recycled in these industries: PP, mineral-filled PP, ABS, PS, PE and PC-ABS.

"RecyClass is more committed than ever to driving the transition to a circular plastics economy across all sectors," said Tom Caris, Chairman of the Automotive and EEE Technical Committee at RecyClass. "Further protocols are under development and will be released next year."

A new protocol on multi-component materials is currently in the pipeline. This protocol will assess how different polymers and materials in vehicles or electrical and electronic appliances can be separated during the recycling process, as well as how assembly choices impact the overall recyclability of plastic components.

collaborated with Isono to procure quality raw materials for recycling and leveraged Toyota Gosei's original material modification technology, meeting the quality standards for automotive parts for practical application. "It is the first time in the world that recycled plastic containing 50% ELV plastic [polypropylene] is used in interior parts such as glove boxes that require impact resistance," said the company.

Headlamp project

Covestro reported progress in April regarding its work on recycled polycarbonates made from end-of-life automotive headlamps. Developed through a joint program initiated by the German federal enterprise GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit), with Volkswagen and NIO as key partners, the new PC grades contain 50% recycled content and are now commercially available for new automotive applications. Volkswagen and NIO are validating the material for potential use in future vehicle designs.

"This new line of polycarbonate represents a significant step in supporting the automotive industry's transformation towards a circular future," said

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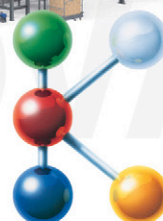
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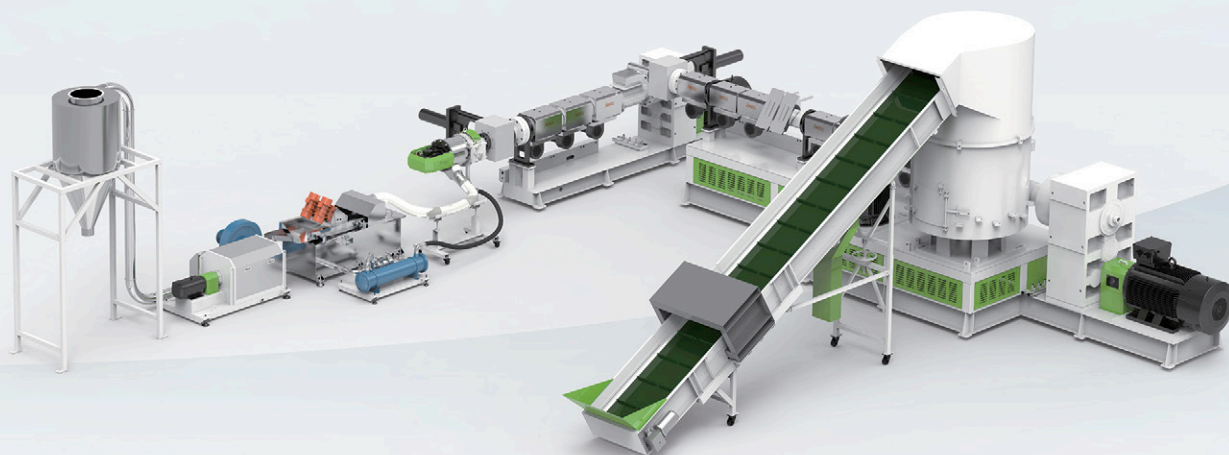
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- **294** sites claim to produce more 10,000t of recyclate/year
- **2,985** recycling lines are operated by sites listed
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- 163 sites produce 'colour compounds'
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Lily Wang, Global Head of the Engineering Plastics Business Entity at Covestro. "By offering high-quality PCR materials derived from end-of-life headlamps, we're enabling our customers to meet increasingly stringent regulatory requirements while contributing to closed-loop recycling of automotive plastics."

Covestro has been collaborating with partners, including Chinese recycler Ausell and leading automakers, to establish closed-loop pathways for high-value plastics from ELVs. The company said that, along with its value chain partners, it has developed practical solutions for collecting and mechanically processing end-of-life headlamps into high-quality PCR grades suitable for a range of automotive applications.

Packaging sources

There are also developments in the open loop approach of using packaging waste plastics as a raw material for automotive parts. In May, German companies **TechnoCompound** and **RE Plano** (a subsidiary of Remondis Recycling) said they have agreed to intensify their cooperation in the use of PCR packaging for automotive applications. The use of recyclates from the lightweight packaging fraction of household waste sorting for use in technical products presents many challenges, they said, and both companies have made significant developments and investments in this area in recent years.

Dirk Breitbach, Managing Director of TechnoCompound, said: "Building on our 35 years of experience in the use of recyclates in plastic compounds, the cooperation with RE Plano is an important step in the up-cycling of PCR from the lightweight packaging fraction for technical applications, such as vehicle interiors. This application has very high requirements in terms of emissions and odours, as well as the mechanical properties of our products."

At its sorting plant in Bochum, Germany, RE Plano uses an AI-supported sorting system that recognises individual packaging and is programmed for sorting criteria that enables the company to achieve the highest purity levels. TechnoCompound recompounds these materials to produce plastic grades that pass the emission chamber tests, including odour and emissions, specified by vehicle OEMs. Dr Gerald Aengenheyster, Head of Development & Application Technology at TechnoCompound, said: "We can offer material solutions where PCR and post-industrial recycled content (PIR) are balanced according to the application and specification."



TechnoCompound said that "while the recovery of PCR from end-of-life vehicle recycling is still in its infancy, developments for the use of the PCR light packaging fraction are now well advanced and available for series application". An example is an instrument panel carrier made from TechnoGreen PP LGF long glass fibre reinforced PP grades, which is in production for two vehicles.

Carton packaging group **Tetra Pak** has been finding applications for polyal, a material combining polymers and aluminium components recovered during the recycling of beverage cartons. It said in June that the Fiat Grande Panda has components made using a polyal-based compound called Lapolen Ecotek, produced by Lapo Compound.

Tetra Pak said: "The placement of the material in such visible parts of the interior, rather than in hidden areas, clearly demonstrates the material's aesthetic potential. Fiat chose the material for its shimmering effect, created by the aluminium content of the recycled material, and because Lapo Compound was able to precisely match the specific shade of blue required."

Additional reporting by David Eldridge.

Left: Tetra Pak has collaborated with Fiat in the use of recycled polymer-aluminium material

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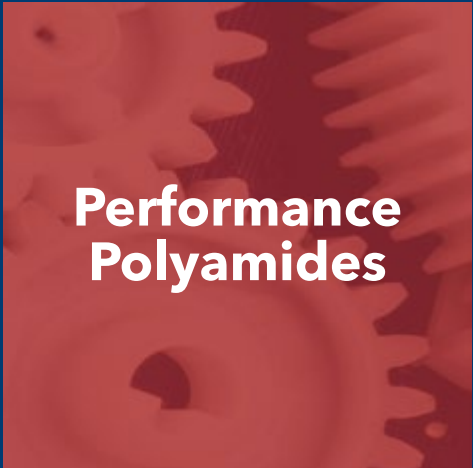
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Despite pressures from outside the industry, the nascent chemical recycling sector has had successes in the past year. James Snodgrass reports on politics and projects

Chemical recyclers try to avoid obstacles

As the pressure to close the loop on plastic waste intensifies, the chemical recycling sector continues to evolve and grow. In the last year we have seen further development of pyrolytic and other technologies, and welcomed some progress in regulation but also seen an increasing hostility to the sector from environmentalists.

US President Donald Trump announced in February: "We're going back to plastic straws". And while his executive order - banning the enforced procurement of paper straws - may give some hope to one part of the plastics industry, his stance on chemical recycling is less clear. The plug was pulled in June on \$375m allocated to Eastman Chemical for a molecular recycling project in Longview, Texas, although that was part of a move by Secretary of Energy Chris Wright that cancelled 24 awards issued by the Office of Clean Energy Demonstrations. Analysis from **Lux Research** published in February suggests that Trump's stance on immigration may have a negative impact on

plastics recycling because low-paid immigrants account for some 40% of all workers involved in waste collection.

The report by Anthony Schiavo said: "Don't expect Trump to save plastic pyrolysis. Plastic pyrolysis needs a few things to succeed: substantially increased supply of plastic waste, a regulatory environment that permits pyrolysis players to make claims about sustainability, and enough confidence in demand to make large investments in pyrolysis facilities. Trump has already taken concrete steps to crimp investment in waste infrastructure with the funding freeze, and his actions on immigration could further damage supply."

Schiavo said he thinks Trump is more open to dialogue with industry on regulation than his predecessor, Joe Biden, but it might go against his broad policy aims: "It's hard to see recycling being a priority amid general anti-sustainability reactions."

If there is a chilling effect on development of the chemical recycling sector in the US, it is not apparent

yet. In June, **ExxonMobil** announced it had expanded operations at its facility in Baytown, Texas, with a second chemical recycling unit. Combined with the first, which has been in operation since late 2022, the company had processed more than 100m pounds of plastic by May 2025. The company has also bullishly announced additional investments, including a third and fourth Baytown unit and its first unit in Beaumont, Texas. These projects would increase ExxonMobil's overall capacity to approximately 500m pounds of plastic waste per year.

Freepoint Eco-Systems announced the loading of its first rail car of pyrolysis oil in April for delivery to Shell USA's refining facility in Norco, Louisiana. Freepoint's chemical recycling facility in Hebron, Ohio is undergoing commissioning and is designed with capacity to convert 180m lbs/yr of waste plastic into pyrolysis oil.

European moves

In July, Freepoint and **Source One**, based in Germany, entered into a long-term collaboration agreement in Europe where they plan to develop multiple pretreatment facilities for waste streams, such as post-consumer waste, to support the growth of pyrolysis infrastructure across Europe. Freepoint plans to build a network of pretreatment installations in key European markets, it said, with Source One acting as the Engineering, Procurement and Construction (EPC) contractor. These facilities will prepare mixed plastic waste into high-quality feedstock suitable for both advanced and mechanical recycling.

Source One's pretreatment system has already been used in commercial-scale operations. Designed to handle complex waste streams, such as mixed plastic packaging and flexible films, the system reduces energy use and environmental impact and, according to the company, sets a new benchmark for quality, operational efficiency, and compliance with evolving regulatory expectations.

"This collaboration marks the beginning of a strategic partnership focused on unlocking the value of plastic waste," said Jacco de Haas, Chief Commercial Officer, Recycling Europe, at Freepoint Eco-Systems. "By combining our feedstock strategy with Source One's best-in-class pretreatment platform, we are building critical infrastructure that enables

pyrolysis to scale commercially and competitively."

Another significant development in Europe came last month when **Agilyx** announced it would acquire 44% of established recycling group **GreenDot Global**. Agilyx called the deal a "transformative investment" which "significantly strengthens Agilyx's presence in the European market" and providing it with a platform for sourcing and supplying feedstock to the chemical recycling industry.

GreenDot is the third-largest recycling company in Germany and has a long-held position in packaging recycling in that country. It is also licensed in 29 countries and processes more than 1m tonnes/yr packaging waste, including over 400,000 tons of plastic. The company is expanding its advanced recycling feedstock supply capabilities by investing in sorting facilities in Austria and Italy. For 2025, GreenDot's operations are expected to generate approximately €400m in total sales and double-digit EBITDA.

Ranjeet Bhatia, CEO of Agilyx, said: "We are thrilled to expand Agilyx's reach into Europe as we build a global platform to supply feedstock to the plastic recycling industry. GreenDot is the recognised industry leader in Europe, has tremendous momentum in the fast-developing advanced recycling market, and is a great complement to Agilyx's existing activities." The transaction is expected

to close in late Q3 2025, subject to regulatory approval under German foreign direct investment laws, and other conditions.

New processes

Progress continues to be made in the development of improved chemical recycling processes. **Coperion** and the **University of Utrecht** in the Netherlands have launched a pilot project using the technology company's STS 25 Mc11 twin-screw extruder to facilitate catalytic recycling of mixed plastic waste. According to Dr Ina Vollmer at University of Utrecht, this enables lower-temperature pyrolysis and purer product streams while cutting energy use.

"Using the extruder, we can achieve an efficient use of the catalyst," said Vollmer. "Still, our vision is to allow pyrolysis to take place even in the extruder. We can achieve this by exploiting the mechanical-chemical reaction that occurs within the twin screw extruder, and specifically convert the polymer at

Right:
Coperion's STS 25 Mc11 twin screw extruder is used for catalysed pyrolysis at University of Utrecht in the Netherlands

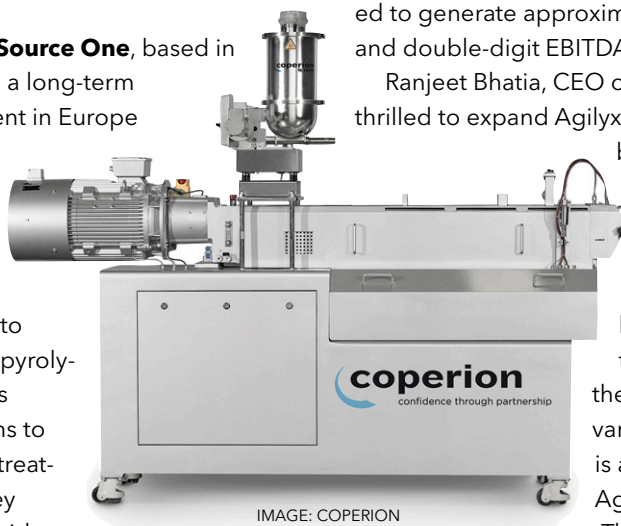


IMAGE: COPERION



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lower temperatures than have previously been necessary for pyrolysis. Mixing with high shear in the extruder has a very positive effect on the use of catalysts. We are convinced that we can direct the chemical recycling process more precisely using lower temperatures, and this will lead to purer products while at the same time having the potential to revolutionise the chemical plastics recycling process sequence and save energy."

Researchers at **Northwestern University** in the US announced in March that they have developed a molybdenum-catalyst system using moisture in ambient air to break PET into terephthalic acid in just four hours. Yosi Kratish, the study's co-corresponding author, said: "What's particularly exciting about our research is that we harnessed moisture from air to break down the plastics, achieving an exceptionally clean and selective process. By recovering the monomers, which are the basic building blocks of PET, we can recycle or even upcycle them into more valuable materials."

New plants

In June **Versalis** - the chemicals division of Italian multinational energy company Eni - unveiled a



IMAGE: VERSALIS

demonstration plant using the company's new proprietary technology called Hoop. The plant, for the chemical recycling of mixed plastic waste, is based at Versalis's Mantua, Italy site. Hoop is intended to complement mechanical recycling, and converts mixed plastic waste into feedstock that can be used to produce new plastic materials which would be suitable for all applications.

Versalis and its partner on the programme, Italian engineering firm SRS, claim the Hoop technology achieves high material recovery yields,

Above: Versalis opened the 6,000 tonnes per year Hoop demonstration plant in Mantua, Italy in June



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IMAGE: REVALYU



Above:
Revalyu's PET recycling facility in Nashik, India is increasing capacity

and can process a wide range of materials. This is achieved using what the company describes as a "high thermal performance pyrolysis reactor" working with the company's expertise in polymer property analysis and AI-based production process optimisation.

Versalis says the 5,000 m² Hoop demonstration plant can process 6,000 tonnes/yr of secondary raw material and will hopefully pave the way for the technology to be used on an industrial scale. To this end Eni-Versalis signed a memorandum of understanding with MIMIT (Ministry of Enterprises and Made in Italy) to construct a 40,000 tonne facility at the company's Priolo site in Sicily.

At the opening ceremony of the plant, Versalis CEO Adriano Alfani said: "Today we are giving further substance and value to circularity, one of the pillars of Versalis's transformation plan. The Hoop plant we are opening today is a symbol of the path we are following - harnessing innovation to reshape our business through new industrial initiatives based on circularity, biochemistry and specialisation, in pursuit of increased sustainability."

In March, **OMV** launched its next-scale ReOil plant at its Schwechat refinery near Vienna, Austria. The facility can process up to 16,000 tonnes/yr of hard-to-recycle mixed plastic waste. Building on a 2018 pilot - which processed over 2,100 tonnes of plastic and achieved more than 30,000 cracking hours - the expansion aims to produce high-quality pyrolysis oil.

Compared to waste incineration, the ReOil technology is projected to reduce CO₂ emissions by up to 34%. The plant received €81.6m in EU funding, the largest grant awarded to OMV to date. OMV is also planning a full-scale industrial facility, pending internal approval.

OMV Chairman and CEO, Alfred Stern, said: "OMV's chemical recycling technology plays a pivotal role in driving growth in our Chemicals segment. The start-up of the new ReOil plant marks

a significant milestone on our path towards achieving climate neutrality by 2050 at the latest. Complementing mechanical recycling, ReOil processes plastic waste that would otherwise remain unrecyclable, reintegrating it into the value chain."

Covestro announced last year that it had invested a "mid-single-digit million Euro amount" in Netherlands-based advanced recycling startup **BioBTX**. The investment, part of a total package of €80m, will support the construction of a 20,000 tonnes/yr demonstration plant using BioBTX's ICCP process. This facility will convert mixed organic and plastic waste into aromatic chemicals - benzene, toluene, and xylenes - critical for plastics and coatings production.

Covestro's involvement includes two joint development agreements aimed at recycling its own products and advancing digital process. The project, also backed by Invest-NL and Infinity Recycling, is scheduled to begin operations by early 2027.

Thorsten Dreier, CTO of Covestro, said: "Chemical recycling can make a significant contribution to closing the loop and the BioBTX ICCP technology is a promising way of using waste to recover raw materials that we use in production."

Projects are also going ahead in the Asian region. In November, **Revalyu** opened a second plant at its Nashik, India site. The company uses glycolysis-based recycling technologies to make PET chips and polymers from waste plastic bottles. The company claims the \$100m, two-phase expansion will make the Nashik site the world's largest PET chemical recycling facility. It says the expanded facility has the capacity to produce to 160 tonnes of PET chips and PET polymer per day. A third plant is scheduled to be operational in Q3 this year, bringing the total capacity of the site to 280 tonnes/day of recycled PET. Revalyu also plans to set up a 240 tonnes/day PET recycling facility in the US by 2027.

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Suppliers are enabling recyclers to clean post-consumer waste with technologies for tackling heavy contamination, including printing inks. By Chris Saunders

IMAGE: KRONES

Better quality with thorough cleaning

Plastics recycling faces numerous challenges, including dealing with contamination, varying material types, and stringent cleanliness standards. With effective washing processes so critical to overcoming these hurdles on the way to producing high-quality recycled materials, the rapid evolution of associated technologies represents a pivotal advancement. By integrating hot and cold washing, or alternatives like dry cleaning, facilities are now able to achieve higher efficiency, quality, and sustainability in their operations than ever before.

BoReTech has recently signed a contract with LNJ Greenpet, a subsidiary of **Bhilwara Energy**, to supply an advanced food-grade PET bottle recycling and washing system for LNJ's PET project in Rajasthan, India. Leveraging BoReTech's next-generation ES process, the collaboration will enable the production of food-grade recycled PET through an efficient, energy-saving, and reliable process.

With an investment of Rupees 7.5bn (€75.4m), the project spans 95 acres and is expected to create 750 jobs. Scheduled to commence production in September 2026, the facility will recycle 20m bottles per day, generating 100,000 tonnes/yr of food-grade recycled PET resin primarily for the packaging and fast-moving consumer goods (FMCG) sectors. The plant will incorporate the latest technology to ensure superior quality, efficiency, and compliance with global food safety standards.

BoReTech's ES process integrates modularisation and process optimisation, delivering significant advantages, according to the company. Key benefits include a reduction of around 25% in floor space requirements, superior cleaning performance by virtue of the pulse washing process, and increased automation which reduces labour demand by 33%, optimises energy consumption, and lowers production costs. India is considered a key market for

Main image:
A PET bottle recycling plant in Charleroi, Belgium features Krones' MetaPure W-PET washing module

IMAGE: LINDNER WASHTECH



Above: Thomas Kepka (left), Head of Sales Eastern Europe at Lindner Washtech, and Virginijus Skublickas (right), Managing Director at Virginijus ir Ko in Lithuania

BoReTech's global expansion, and the company says it is committed to expanding its footprint in the region, collaborating with local enterprises, and advancing PET recycling technology.

In a market shaped by sustainability goals and increasingly stringent regulatory frameworks, PET packaging has taken a central role in the shift toward a circular economy. Yet one segment continues to resist full integration into closed-loop systems: PET thermoformed trays. While widely used for their barrier properties and shelf-life performance, these trays are particularly challenging to recycle as characteristics such as high organic contamination, low intrinsic viscosity (IV), and elevated brittleness, lead to excessive fines generation and degraded flake quality. As a result, conventional recycling systems often struggle to process them efficiently, resulting in poor yield and limited economic viability.

"The challenge becomes even more critical when multilayer PET trays, sometimes representing up to 50% of the input stream, are involved," said Claudio Navone, Recycling Department Manager at **Amut**, an Italian company specialising in extrusion and recycling technologies for plastics. "Most conventional systems are unable to handle the complexity and are forced to remove multilayer trays at the sorting stage, lowering material recovery rates and overall system performance. This not only impacts profitability but also jeopardises compliance with evolving EU circularity objectives, which increasingly demand that packaging be demonstrably recyclable and, for food-contact applications, meet stringent safety criteria under Regulation (EC) No 282/2008."

Following years of R&D, Amut's patented tray-to-tray recycling solution marks a significant breakthrough. What sets the technology apart is its capacity to process mixed PET tray feedstocks,

mono and multilayer alike, without requiring pre-sorting. At the heart of the innovation is the patented Friction Washer, which enables mechanical delamination of multilayer structures during the washing stage. The result is clean, high-quality hot-washed flakes that meet the rigorous standards applied to PET sheets considered suitable for food-contact applications.

"This new tray-to-tray technology is the most advanced and efficient PET washing system on the market, and the first to demonstrate full-scale industrial success in processing mixed PET trays, including multilayers, without compromise," said Navone.

Big bag recycling

Lithuanian company **Virginijus ir Ko** has been collecting, sorting and processing packaging and industrial waste materials from trade, commerce, and agriculture since 2001, and now processes around 35,000 tonnes/yr. In 2023, the company commissioned a **Lindner Washtech** facility consisting of a shredding and washing system, a process water treatment system, and an extrusion system with odour decontamination, to turn big bags into high-quality pellets. Big bags are usually made of PP and are tear-resistant and extremely hard-wearing, properties that make the recycling process very demanding. As with many plastic recycling processes, the first shredding stage is one of the most important as the entire process chain must be precisely coordinated to guarantee a high level of material purity. "In the subsequent process steps, the main focus is on gently removing any remaining impurities and drying the material," said Tomas Kepka, Head of Sales Eastern Europe at Lindner Washtech.

The Rafter pre-wash system patented by Lindner Washtech, with its low speed of approximately 60 rpm, is ideal for removing stones and sand. Up to 90% of all dirt and contaminants can be extracted in this first step. In subsequent processes, the pre-washed flakes can be processed more gently, avoiding material losses due to fine particles. After cleaning, the material must be optimally prepared in the drying unit for the extrusion process.

"When drying big bag materials, we use the mechanical dryer from the Loop Dryer series," said Kepka. "It is equipped with special tools that prevent high stress on the material due to friction. The dryer also has a frequency converter so that the speed can be adjusted and controlled."

At the upcoming K 2025 trade fair in Düsseldorf, Lindner and a well-known partner plan to present an innovative washing process that it says "sets new

standards" in material purity, redefining the recycle quality for the cosmetic and personal care sector. Interestingly, the company says the technology could also open up other complex areas of application.

In Charleroi, Belgium, a joint venture between recycler **Veolia** and mineral water producer **Sources Alma** has delivered a PET bottle recycling plant harnessing **Krones** technology and dedicated exclusively to PET bottles. After trials, the plant went into operation in January 2023 and has been running at full capacity since August 2023. The heart of the line is the MetaPure W-PET washing module, which provides pre-treatment, a caustic wash, and a hot post-wash.

The bottles arrive at the facility in compressed bales. A large rotary drum screen separates the materials into fractions, after which further sorting removes other contaminants such as labels. The sorted PET bottles are then shredded and passed through the washing module. "In the first stage of washing, inside the pre-washer, the flakes are rinsed with water in order to remove coarse soiling such as bits of labels or beverage residues," said Plant Manager Mélanie Gregoire. "The PET flakes



are then washed with an 85° C combination of water and caustic soda to remove any remaining contamination."

The PET flakes go through this process twice before moving on to the rinse tank, where remaining label material is removed. After the final hot water washing, the flakes pass through mechanical and thermal dryers. The mechanical dryer uses high-speed spinning while the thermal dryer blows

Above: Krones' MetaPure W-PET washing module provides pre-treatment, a caustic wash and a hot post-wash

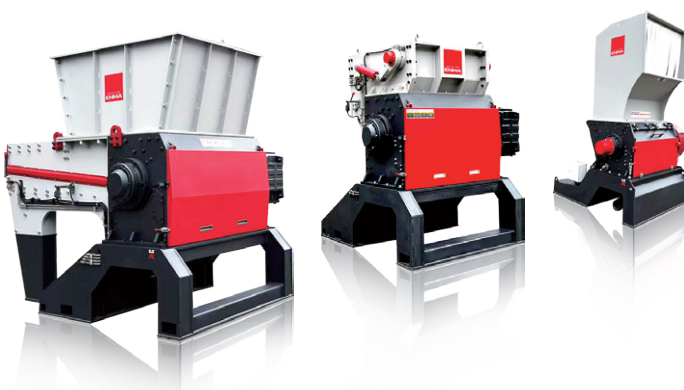
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hot air over the flakes and any dust or remaining label fragments are removed in a zig-zag sifter. The flakes are then sorted once again and particles that are either smaller than 2 mm or larger than 25 mm are separated. Then the flakes are checked through optical sorting within the visible light spectrum and laser sorting, which also detects aluminium fragments. Finally, the flakes are packed and shipped to one of Sources Alma's 50 factories in Europe.

"At the end of the process, the PET flakes are clean and free of contaminants," said Gregoire. "They can then be melted down into pellets and made into new bottles or other plastic products."

Deinking focus

Sorema, the recycling systems division of Previero, says the printed film washing plant with deinking technology installed at Coveris-ReCover in Lincolnshire, UK has hit several quality and quantity targets. "The international market had long been asking for a solution to recycle increasingly significant fractions of films used in consumer packaging, where the challenge was the printed fraction," said Dario Previero, Sorema manager. "More than a decade ago, Sorema began a series of industrial tests to understand the ink removal mechanism and design machines for this technology. In Sortology, we found the right partner to complete the process with chemical cleaners. Together, we have developed and are in the process of patenting a system that washes and deinks printed films. Thanks to Coveris-ReCover, we had the opportunity to jointly develop and install a production facility where all films are deinked to a quality level that allows Coveris to

reuse them in high percentages in the original packaging. The technology is already being used for both PP and PE films."

The deinking system has two basic components: a batch reactor in which deinking is carried out and a water filtration system which minimises water and chemical consumption.

Previero continued: "The ink industry has thousands of different formulations, pigments, primers, and substrates. The batch reactor is by far the best solution as it allows perfect control of time, friction, and chemical concentration. To support new projects, we have installed a 1:1 scale deinking line in our lab for test validation, which has attracted great interest in the packaging-to-packaging market. Sorema is already looking ahead, developing solutions for post-consumer films and highly contaminated packaging in the food industry. Another challenge for our technical centre, and of great interest to the market, is the combination of the deinking process with our delamination technology, which is patent pending."

Sorema delivered the first post-industrial film deinking plant to Coveris-ReCover in 2023 and upgraded the line in the summer of 2024. "At Coveris we produce for several customers, so we have many custom printing solutions that require flexibility and vendor support," said Mike Richardson, Technical Director at Coveris-ReCover. "We are incredibly pleased with the results of the project, and today we can use high percentages of recycled material to meet the recycling mission of both Coveris and our customers. The Sorema plant has a production capacity of up to 1,000 kg/h for films and up to 1,500 kg/h for rigid packaging. With the



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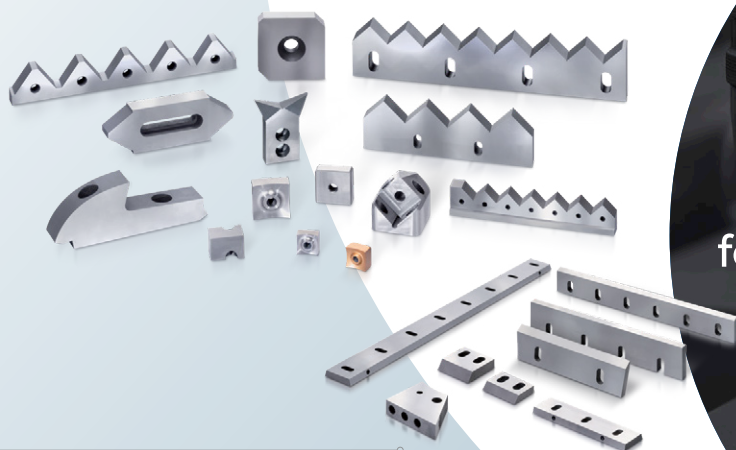
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combination of the line's flexibility and Sortology's support, we can customise chemicals to minimise process costs. The continued collaboration with Sorema and Sortology and the proactive approach to design for recycling by our production team have enabled us to reduce consumption by 30-50%."

Materials and additives producer **Evonik** is taking a different approach to the deinking challenge with its new co-binder Tego Res 1100. This methacrylate co-polymer makes deinking of plastic films faster and more efficient, and can be easily incorporated into standard solvent-borne ink formulations, offering broad solubility and compatibility with various binders and solvents, including alcohols and esters, while preserving the high performance of the inks. Adding it to solvent-borne packaging inks enables deinking of flexible packaging without changing existing equipment. "Our testing shows that adding just 3-10% of our Tego Res 1100 delivers excellent deinking results, even at temperatures as low as 40°C, with or without surfactants," said Dr. Christian Schirmacher, Project Manager and Head of Applied Technology Inks EMEA.

Chemical recycling is increasingly being recognised as a complementary solution to address plastic waste and is particularly suitable for mixed, contaminated PE and PP plastic fractions that are unsuitable for mechanical recycling. One example is the planned large-scale facility by Austrian energy and chemical group **OMV** which will utilise its proprietary ReOil technology in which plastic waste is converted into a naphtha-like oil through pyrolysis. The resulting pyrolysis oil is then refined and used as a raw material.

Dry cleaning

As chemical recycling requires feedstock with minimal contamination, efficient and cost-effective pretreatment is becoming increasingly important. This is where the dry cleaning technology developed by **Pla.to** plays a crucial role. The German firm's dry cleaning process operates entirely without water, relying solely on mechanical agitation and powerful airflow. At the heart of the system is a high-speed rotor with wear-resistant tools surrounded by a perforated basket. Through

mechanical stress, paper is defibred, and organics and dirt are propelled through the holes of the basket. The removed materials are extracted from the cleaner with the help of a vacuum system.

Compared to conventional wet washing, the company says this method significantly reduces operating and disposal costs while achieving excellent cleaning performance. Over the past three years, Pla.to has equipped four recycling companies active in the preprocessing of materials for chemical recycling. These units handle throughput capacities ranging from 1,700 kg/h to 4,000 kg/h, depending on the application and material composition. Key features of the technology include integrated separation units that reliably remove metallic and non-metallic contaminants, thereby protecting downstream equipment from damage. Additionally, a rotating scraper keeps the basket holes clear and maintains efficiency.

Pla.to points to **Saperatec**, based in Dessau, Germany, as a reference customer. The company uses a proprietary chemical process to separate LDPE films from aluminium layers in multilayer composites. Prior to delamination, the input material is dry cleaned using a Pla.to system. Since 2022, Pla.to has installed a total of 13 large-scale dry cleaning systems specifically for feedstock recycling applications and says growing demand demonstrates that dry cleaning is becoming a key enabler for chemical recycling. At K 2025, the company plans to present an enhanced dry cleaning unit with improved features for higher performance and energy efficiency.

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- > <https://virginijusirko.lt>
- > www.lindner-washtech.com
- > www.veolia.com
- > www.sources-alma.com
- > www.krones.com
- > <https://sorema.it>
- > www.evonik.com
- > www.omv.com
- > www.plato-technology.de
- > <https://saperatec.de>



Left: Pla.to's dry cleaning process operates entirely without water (photo shows output material from the system)



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and many more. See the full list of exhibitors [here](#).

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www.ami.ltd/PE-CPFGlobal-report

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Meet the AMI Magazine Team

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Sales

Sales agents

Our portfolio of digital magazines

Through 2025 AMI Magazine will produce 26 issues containing more than 140 feature articles and close on 100 pages of advertising in the plastics, recycling and related sectors. It will also include a range of other content including market analysis, news, and commentary.

Editorial formats

Advertising Solutions

Advertising formats

Email banners

Industry surveys

K2025: ready for launch

After a three-year wait, the K show is back. In this special section, we look ahead to the global plastics industry's key event – and provide essential links to help you get the most from your visit

In just three months, the world's largest plastics show opens its doors again. K2025 runs from 8-15 October in Dusseldorf, Germany.

The show will fill all 18 halls of the venue – with more than 3,000 exhibitors from over 60 countries expected to promote their raw materials, additives, semi-finished products, machinery, ancillary equipment and services to the plastics industry. K2022 recorded 3,020 exhibitors from 59 countries on 177,516 m² of net exhibition space. It also welcomed 177,486 trade visitors – of whom 71% came from outside Germany.

Sustainability remains of growing concern in the plastics sector, so the circular economy will again feature heavily. As well as machinery – such as equipment for processing, recycling and waste management – there will also be many examples of new materials – such as bioplastics and formulations with higher levels of recyclate.

There is a return for the Science Campus – which allows business to exchange ideas and information with academia. This year, exhibitors – in addition to having their main stands – can take part directly. The Start-up Zone also returns.

'Plastics shape the future' is organised by

PlasticsEurope Deutschland and Messe Düsseldorf. It illustrates current and future developments. It consists of seven themed days – with discussions on innovative technologies and materials, keynotes and a political panel – plus a Career Day and Start-up Pitch.

This year's VDMA Forum is called 'The Power of Plastics'. VDMA and member companies will show how technology is vital for implementing circularity.

Building up to the show

In the run up to K2025, *Plastics Recycling World* will be publishing detailed previews of the innovations that will be presented.

Look out for our K Preview issues in September and October – followed by a K2025 review in the November/December issue. You can also follow the news on our [@plasticsworld](#) feed on X.

Exhibitors can send press releases to david.eldridge@amiplastics.com. Full details of our special coverage of K2025 are in our [media pack](#).

Dates:

8-15 October 2025

Venue:

Dusseldorf Fairground, Dusseldorf, Germany

Hours:

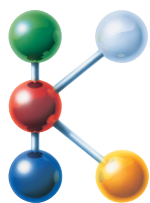
10:00 to 18:30 daily

Organiser:

Messe Dusseldorf

Website:

www.k-online.de



knowing the score

Use our selection of web links to make your visit to Dusseldorf - and K2025 - as productive and enjoyable as possible



BUY YOUR TICKETS

You can save queueing (and some money) by buying entry tickets in advance. A three-day ticket now costs €125, while one-day tickets are €60 (€20 concessions, such as students or pensioners) when bought in advance. Order tickets by clicking **here**. A catalogue costs €30: but a voucher online and exchange it at the show.



IMAGE: SHUTTERSTOCK

GET K ON THE PHONE

Lots of useful K2025 data is now available on your smartphone or tablet - including exhibitor and product databases, exhibition plans, travel information, hotel listings, city guides and restaurant reviews - via the 'The K App'. To download the free app, visit the page **here**, which has links to both the AppStore (for iPads and iPhones) and Google Play (for Android devices).

BOOK YOUR ACCOMMODATION

Dusseldorf accommodation fills up fast during K and the best options go early. Find out what's still available and make your reservation as soon as possible at the official **website**.



IMAGE: SHUTTERSTOCK

CHECK OUT THE REST OF DUSSELDORF



IMAGE: SHUTTERSTOCK

After a hard day at K2025 you will have earned some relaxation time. Make the most of your evenings in the city by checking out the restaurants, pubs, bars, culture and entertainment on offer. This official guide has useful listings, as well as guides to the sights and neighbourhoods: <http://bit.ly/DusseldorfGuide>

Also worth a look is the Wikitravel page on the city: <http://bit.ly/wikiguide>

And if the Altstadt and its 260 pubs get too crowded, try heading to the **Media Harbour**, for its modern architecture and venues, which include restaurants, bars and clubs.



IMAGE: SHUTTERSTOCK

ORGANISE YOUR TRAVEL

Düsseldorf is well connected and getting around the city is easy thanks to its excellent public transport network. However, your admission ticket to the show does not include free use of local transport, as it did in the past. Instead, visitors can travel using the **eezy app**, which is like an 'e-ticket'. Details on transport can be found [here](#).

GET ROUND THE EXHIBITORS

With more than 3,000 exhibitors to choose from and a total exhibition area of more than 170,000m², it makes sense to plan your time at the show before you head off. The good news is that you can search for participating companies by name and by product using the online K2025 database.

To search by company, click [here](#)

To search by products, click [here](#)

You can also locate companies using the interactive floorplan which can be found [here](#)



IMAGE: MESSE DÜSSELDORF/TILLMANN



IMAGE: SSPB

SOAK UP SOME CULTURE

There's always plenty going on in Düsseldorf outside the Messe, as the city is home to more than 100 galleries and museums. One exhibition at Kunstpalast, which is running during K2025, celebrates the work of Hans-Peter Feldmann - including photographs, sculptures and expansive installations. Kunstpalast also presents the work of 30 female artists who were active in Düsseldorf during the 19th century - at a time when they were not allowed to study at the renowned art academy. Finally, Freaks of Nature (pictured) is a special exhibition at Schloss Benrath focusing on "the fascination of hybrid creatures".

TRY SOME RETAIL THERAPY

If retail is your thing - and especially designer goods - then Düsseldorf will not disappoint. Königsallee - known as 'Kö' to locals - includes many of Europe's leading fashion names and is likened with London's Knightsbridge or New York's Fifth Avenue. However, neither of those locations can boast a setting to match the tree-lined, man-made 'river' that runs through this premium shopping district. Catch the flavour [here](#).



IMAGE: DÜSSELDORF TOURISMUS: MARKUS LUGS



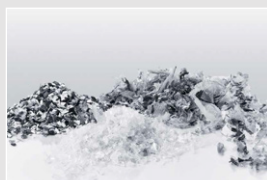
IMAGE: DÜSSELDORF TOURISMUS: U. OTTE

DON'T FORGET THE ALTBIER!

Regular visitors will already know that Düsseldorf's local brew is the Altbier, a malty copper-coloured ale of around 4.5% strength produced using a special top-fermented lagering method. The name translates as 'old beer' but is actually derived from the Latin word 'altus', which means 'high' and refers to way the yeast rises during brewing. Try it out in one of the city's numerous brew-pubs. Details of these and a short history of Altbier can be found [here](#).

Download these new product brochures

COPERION: RECYCLING SYSTEMS



High-quality recycled plastics. Complete system solutions from one source.

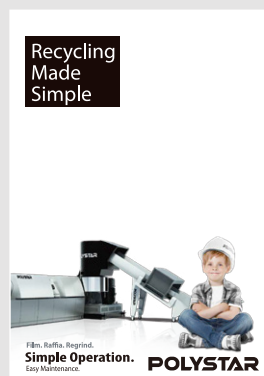
coperion
tron

coperion
technology

Whatever your recycling need - mechanical, solvent or chemical - Coperion provides a single source solution. Its offer ranges from shredding and agglomeration, through washing and conveying, on to melt processing and degassing, and pelletising.

[CLICK HERE TO DOWNLOAD](#)

POLYSTAR: PLASTICS RECYCLING



Recycling
Made
Simple

Film, Raffia, Regrind.
Simple Operation.
Easy Maintenance.

POLYSTAR

Recycling Made Simple is the brochure from Polystar where you can find information about all of the company's plastics recycling systems. Its Repro Flex lines can recycle post-industrial and post-consumer PE/PP packaging and PP raffia/woven materials.

[CLICK HERE TO DOWNLOAD](#)

GLOBAL COLORS GROUP



global
colors
MASTERBATCHES

Find out about Global Colors Group in this brochure showcasing the group companies, their vision and focus on quality, R&D, technology and sustainability. Its portfolio includes colour, white and black masterbatches.

[CLICK HERE TO DOWNLOAD](#)

BB ENGINEERING: RECYCLING SYSTEMS



BBENGINEERING
The Recycling Company

Recycling
technologies

Close the circle with rPET systems for fibers and more

BB Engineering explains in this brochure how its technologies recycle PET into fibre and pellets, covering its VacuFil recycling systems, Visco+ vacuum filter, VarioFil R/R + compact spinning lines, extruders and more.

[CLICK HERE TO DOWNLOAD](#)

NORDSON BKG: MELT DELIVERY



Polymer Processing Systems
BKG® Melt Delivery & Pelletizing Systems

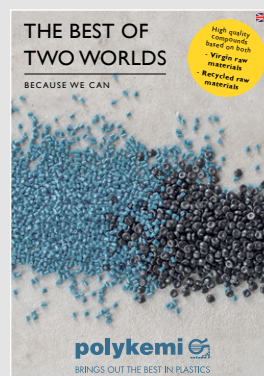
As Nordson BKG, our commitment to innovation is visible in the products we engineer. With decades of industry experience, we understand the challenges faced by global plastic processors and have tailored our melt delivery and pelletizing solutions to meet their needs with superior precision and reliability.

Nordson

The technology portfolio of Nordson BKG, part of Nordson Polymer Processing Systems, includes a full range of melt filtration systems, melt pumps, polymer valves and jet cleaners plus pelletising systems, all detailed in this brochure.

[CLICK HERE TO DOWNLOAD](#)

POLYKEMI: COMPOUNDS



THE BEST OF
TWO WORLDS
BECAUSE WE CAN

High quality compounds based on both Virgin raw materials and Recycled raw materials

polykemi
BRINGS OUT THE BEST IN PLASTICS

Polykemi's engineering compounds based on virgin and recycled materials can be used in applications ranging from housings and panels to vehicle carriers and grilles, as shown in case studies in this brochure.

[CLICK HERE TO DOWNLOAD](#)

If you would like your brochure to be included on this page, please contact Claire Bishop claire.bishop@amiplastics.com. Tel: +44 (0)1732 682948

Keep informed: read our latest editions

AMI publishes five process-specific FREE plastics industry magazines. Simply click on the cover below to read each magazine. Or download the issue in the relevant Apple or Android app



Plastics Recycling World May-June 2025

Plastics Recycling World's May-June edition looks at how post-industrial recycled content is growing in new applications, success stories at shredder companies, and new compatibilisers.

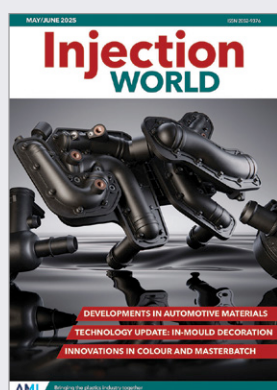
[> CLICK HERE TO VIEW](#)



Plastics Recycling World March/April 2025

Plastics Recycling World's March-April edition investigates additives that benefit recycled plastics, and looks at the latest in melt filtration and PET recycling, plus there's a preview of the conference at GreenPlast 2025 in Italy.

[> CLICK HERE TO VIEW](#)



Injection World May-June 2025

The May-June issue of Injection World magazine looks at leading materials companies innovating in automotive injection moulding, advances in in-mould decoration and developments in masterbatch.

[CLICK HERE TO VIEW](#)



Compounding World July 2025

The cover story in the July issue of Compounding World magazine takes a look at the different antimicrobial additives and processes available to compounders, while other features are on materials handling, colour measurement and odour/emissions control.

[> CLICK HERE TO VIEW](#)



Pipe and Profile Summer 2025

Pipe and Profile Extrusion's Summer edition has a cover feature on medical tubing, exploring its multiple applications in healthcare, while other articles cover screw and barrel innovation, die developments and the latest in corrugated pipe.

[> CLICK HERE TO VIEW](#)



Film and Sheet July/August 2025

The cover story in Film and Sheet Extrusion's July-August edition checks out the latest in bio-based plastics and their applications, while other articles cover pouches, downstream equipment and how to prepare for visiting the K Show.

[> CLICK HERE TO VIEW](#)

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WORLD

Film and Sheet
EXTRUSION

Pipe and Profile
EXTRUSION

Injection
WORLD

Plastics Recycling
WORLD

GLOBAL EXHIBITION GUIDE

2025	10-11 September	RACE Recycling World Expo, Mumbai, India	www.plasticsrecyclingexpoindia.com
	8-15 October	K2025, Dusseldorf, Germany	www.k-online.com
	12-13 November	Plastics Recycling World Expo N America, Cleveland, US	https://na.plasticsrecyclingworldexpo.com
	4-7 November	Ecomondo, Rimini, Italy	www.ecomondo.com
	4-7 December	PlastEurasia, Istanbul, Turkey	https://plasteurasia.com
2026	9-12 January	Plastex, Cairo, Egypt	www.plastexegypt.com
	20-22 January	Swiss Plastics Expo, Lucerne, Switzerland	https://swissplastics-expo.ch
	5-10 February	PlastIndia, New Delhi, India	www.plastindia.org
	4-6 March	Asiamold, Guangzhou, China	www.asiamold-china.com
	10-12 March	JEC World, Paris, France	www.jec-world.events
	11-12 March	PlastExpo Nordic, Helsinki, Finland	https://pfsptec.messukeskus.com
	26-28 March	RePlast Eurasia, Istanbul, Turkey	www.replasteurasia.com
	30 March - 1 April	Plast-Alger, Algiers, Algeria	www.plastalger.com
	31 March - 2 April	Plastics & Rubber Vietnam, Ho Chi Minh City	https://plasticsvietnam.com
	13-17 April	Wire, Dusseldorf, Germany	www.wire-tradefair.com
	21-24 April	Chinaplas, Shanghai, China	www.chinaplasonline.com
	22-23 April	PlastTeknik Nordic, Malmö, Sweden	www.plasttechniknordic.com
	29-30 April	Textiles Recycling Expo, Charlotte, NC, USA	www.textilesrecyclingexpo.com

AMI CONFERENCES

19-20 August 2025	Rigid Packaging Forum, Cincinnati, OH, US
16-18 September 2025	Single-Serve Capsules, Malaga, Spain
11 November 2025	Sustainability in Design, Cleveland, OH, US
3-4 December 2025	Refillable and Reusable Packaging, Berlin, Germany
9-10 December 2025	Flexible Packaging Innovation and Recycling, Vienna, Austria
9-11 December 2025	Wind Turbine Blades, Düsseldorf, Germany

For information on all these events and other conferences on film, sheet, pipe and packaging applications, see www.amiplastics.com

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www.plasticsrecyclingworld.com

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