

PLASTICS SOURCING GUIDE

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What's Inside

- Chinese chemical leaders pivot to high-end specialties amid global market slump
- Four transition pathways for climate-friendly materials
- Multi-material compatibility of recycling equipment

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Plastics Sourcing Guide

Purpose of the Guide

Thank you very much for taking the time to share the digital copy with your team!

We aim to equip you with a selective registry of top-tier suppliers. Beyond expanding your sourcing network, this guide delivers deep, actionable insights into emerging market trends and highlights the critical takeaways from recent comprehensive reports on China's fast-evolving plastics industry.



Adsale Plastics Network (AdsaleCPRJ.com)

Integrating into the Chinese market and supply chain.

Integrated with the Adsale Plastics Network, our guide links you to the recently revamped website. It features an enhanced layout filled with a wealth of Chinese market insights, along with 200+ exclusive interview and factory videos from suppliers in China.



2026 Top 10 Technology Trends in Plastics and Rubber Report

This report provides a clear roadmap for the future of the plastics and rubber industry.

In an era defined by low growth, high volatility, and rigorous regulation, identifying investable technologies and viable business strategies is paramount to corporate survival. Adsale Plastics Network has published the 2026 Top 10 Technology Trends in Plastics and Rubber Report to address these challenges.

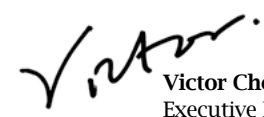


Preface

Welcome to the Plastics Sourcing Guide—your definitive tool for navigating the cutting edge of global plastics materials and machinery. In this issue, we shine a spotlight on the resilient strategies emerging from China's leading chemical giants as they navigate shifting global markets. Alongside these case studies, we deliver updates on how a broader network of top Chinese suppliers is doubling down on domestic capacity expansions and accelerating their R&D capabilities to drive the next wave of business growth.

In today's climate of economic deceleration, market turbulence, and escalating regulatory pressures, pinpointing commercial ready technologies is critical to operational survival. To help you decode these challenges, the Adsale Plastics Network has launched the 2026 Top 10 Technology Trends in Plastics and Rubber Report. In this issue, we dive deep into two of these paradigm-shifting advancements in the Game-Changing Technologies column.

We invite you to immerse yourself in the insights ahead as we navigate the fast-evolving landscape of the plastics industry together. Thank you for exploring this edition, and we look forward to connecting with you in person at the upcoming trade shows. See you there!


Victor Cheng,
Executive Editor

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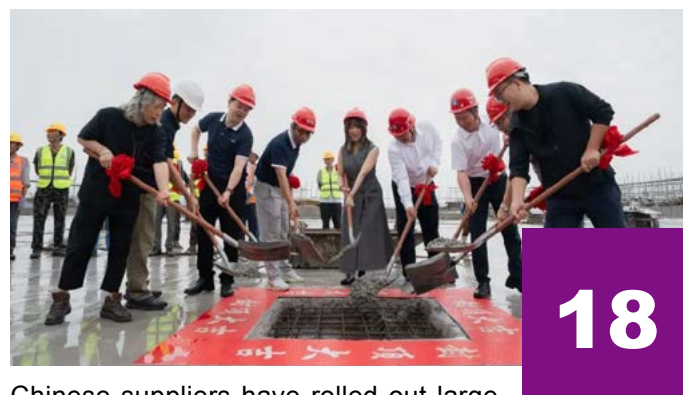
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Amid global market slump, China's representatives in the Top 50 chemical firms are steadily shifting from scale expansion to high-value quality enhancement.

18 China's Plastics Industry

Chinese suppliers accelerate local investment to scale up production and R&D

While stepping up overseas market expansion, Chinese suppliers are investing in domestic capacity expansion and R&D upgrading.



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Chinese suppliers have rolled out large-scale domestic investments in new production and R&D facilities. A string of landmark projects was launched in 2026.

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CRRE 2026: Connecting global stakeholders across resource recycling value chain

CRRE 2026 is positioned as a premier national-level platform featuring deep value-chain integration and extensive international engagement.

54 Plast Eurasia returns to Istanbul in December 2026

With strong international participation, Plast Eurasia proved itself as one of the most important trade platforms for the plastics industry.

56 Global Event Calendar



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In the new landscape, climate-friendly attributes are no longer optional marketing extras—they are fundamental prerequisites for market entry.



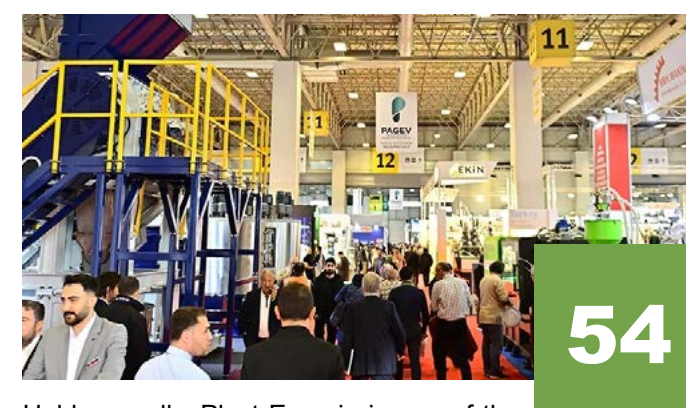
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Across different sectors, conventional recycling equipment struggles to efficiently process mixed, multi-material, and highly contaminated waste streams.



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CRRE 2026 covers a comprehensive scope across multiple recycling sectors, including plastics, electronics, batteries, automotive components, and solar modules.



54

Held annually, Plast Eurasia is one of the biggest international plastics industry fair in the Eurasian region.

What's Hot



A deep dive into China's 15th Five-Year Plan for Circular Economy Development

#CircularEconomy #Recycling #China

The National Development and Reform Commission of China (NDRC) recently released the 15th Five-Year Plan for Circular Economy Development. This is projected to drive the total output value of the resources recycling industry to RMB 8 trillion.



CPRJ Packaging Conference: AI, circularity, and going global

#Packaging #AI #CircularEconomy

More than 40 presentations covering key areas in plastic packaging—from consumption trends to implementation of green packaging, from AI use to smart manufacturing upgrade, and from material innovation to production efficiency enhancement.

What's More

■ ARBURG acquires Stork IMM
#Acquisition #InjectionMolding

■ Greyparrot secures US\$27 million funding to scale AI waste intelligence platform
#Recycling #AI

■ eSUN launches PLA-Coffee filament for 3D printing
#PLA #Bioplastic #3DPrinting

■ Teijin develops new CFRP with self-healing function and recyclability
#CFRP #Composite

■ Amcor expands packaging facility in China
#Packaging #China

■ Fakuma 2026: Multi-faceted program for plastics industry
#Fakuma #PlasticsExhibition



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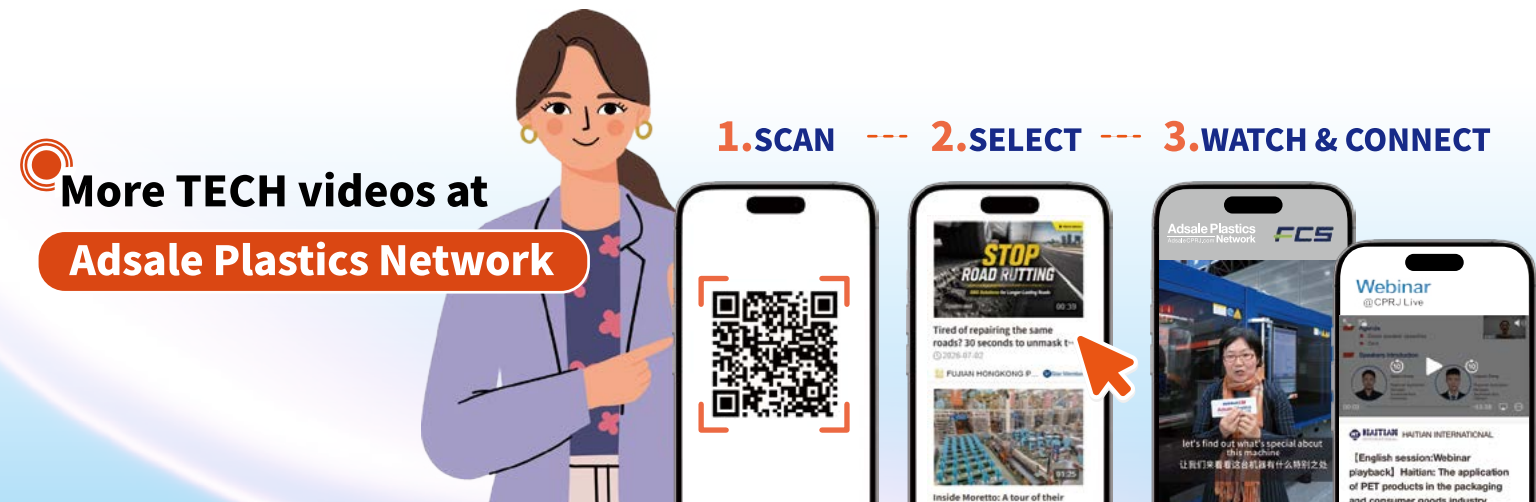
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TECHNOLOGY TO THE POINT

Chinese chemical leaders pivot to high-end specialties amid global market slump

#ChinaPlastics #Chemicals #Petrochemical

Top Chinese chemical firms leverage proprietary R&D hubs, strategic global alliances, and cross-border vertical integration to escape market downturn.

The global chemical industry is weathering its most severe downturn in a generation, marked by protracted losses, unprecedented margin compression, and an unusually prolonged slump in demand.

According to recent data from the 2026 C&EN Global Top 50 chemical firms ranking, combined chemical sales of the 50 firms dropped 5.8% to US\$965.8 billion, with 39 of the top 50 firms reporting declines. Operating profits plummeted by 19.5% to US\$47.2 billion for 37 firms that revealed

the figures.

This financial squeeze has forced a contraction in global capital expenditures and a rare drop in R&D spending, as management teams targeted research laboratories and scaled back new project investments to preserve balance sheet health.

Amid this global market slump, China's representatives in the Top 50 are steadily shifting from scale expansion to high-value quality enhancement. Many of these firms are executing an "oil-to-chemicals"

conversion. While traditional refining models yield minimal chemical feedstocks, advanced integrated facilities boost these yields, generating additional profits from premium value-added downstream materials.

This structural pivot toward downstream advanced applications, such as energy storage system (ESS), electric vehicle (EV), and healthcare, is demonstrated by their latest strategic initiatives and technological rollouts.

RANK		COMPANY	2025 CHEMICAL SALES (\$ MILLIONS)	CHANGE FROM 2024	HEADQUARTERS
2025	2024				
1	1	BASF	\$67,447	-8.6%	Germany
2	2	Sinopec	52,598	-9.0%	China
3	3	PetroChina	40,950	-4.4%	China
4	5	ExxonMobil	39,980	-2.8%	US
5	3	Dow	39,968	-7.0%	US
6	9	Linde	33,986	-3.0%	England
7	7	LG Chem	32,315	-6.7%	South Korea
8	6	Sabic	31,073	-16.8%	Saudi Arabia
9	12	Air Liquide	30,458	-0.1%	France
10	8	LyondellBasell Industries	30,153	-9.7%	US
11	16	Wanhua Chemical Group	28,276	11.6%	China
12	10	Ineos	28,259	-13.3%	England
13	11	Formosa Plastics	28,200	-9.8%	Taiwan Region, China
14	13	Syngenta Group	26,100	-3.0%	Switzerland
15	17	Reliance Industries	25,337	5.7%	India
16	15	Mitsubishi Chemical Group	24,764	-6.2%	Japan
17	14	Rongsheng Petrochemical	24,011	-9.7%	China
18	18	Hengli Petrochemical	18,771	-11.9%	China
19	20	Shin-Etsu Chemical	17,209	0.5%	Japan
20	19	Evonik Industries	15,906	-7.2%	Germany
21	28	Yara	15,623	12.7%	Norway
22	24	Toray Industries	15,014	-0.3%	Japan
23	22	Covestro	14,632	-8.7%	Germany
24	23	Jiangsu Eastern Sheng-hong	13,704	-10.3%	China
25	21	Indorama Ventures	13,610	-18.1%	Thailand
26	26	Lotte Chemical	13,003	-9.0%	South Korea
27	30	Tongkun Holding Group	12,673	-7.8%	China
28	29	Braskem	12,653	-8.6%	Brazil
29	33	Chevron Phillips Chemical	12,470	3.0%	US
30	27	Sumitomo Chemical	12,241	-13.2%	Japan
31	38	Mosaic	12,052	8.4%	US
32	34	Air Products and Chemicals	12,037	-0.5%	US
33	31	Sibur	11,171	-10.3%	Russia
34	35	Mitsui Chemicals	11,157	-7.8%	Japan
35	36	Hengyi Petrochemical	10,919	-7.2%	China
36	37	Bayer	10,781	-7.7%	Germany
37	42	Nutrien	10,692	11.7%	Canada
38	39	Arkema	10,252	-5.0%	France
39	25	DSM-Firmenich	10,214	-29.4%	Netherlands and Switzerland
40	44	Xinfengming Group	9,956	6.7%	China
41	40	Celanese	9,544	-7.2%	US
42	—	OCP	9,092	11.3%	Morocco
43	45	Resonac Holdings	9,007	-3.0%	Japan
44	43	Eastman Chemical	8,752	-6.7%	US
45	46	Asahi Kasei	8,733	-4.2%	Japan
46	47	Borealis	8,583	-3.3%	Austria
47	—	Hanwha Solutions	8,079	8.4%	South Korea
48	50	Sasol	7,887	-4.1%	South Africa
49	41	Shell	7,818	-18.5%	England
50	—	Ecolab	7,680	-2.3%	US



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Sinopec: Scale-driven circularity and battery alliance

Sinopec is actively advancing its circular economy initiatives and new energy innovations through two major strategic moves designed to expand its footprint in high-value-added sectors.

In March 2026, the corporation officially inaugurated Sinopec Recycling Technology Co., Ltd., establishing a centralized management platform to handle investment cooperation, resource storage, processing trade, and carbon chain services for the recycled materials industry. This specialized entity is engineered to spearhead the high-value utilization of waste plastics and become a world-leading resource recycling provider.

Sinopec has also successfully broken into the alternative battery supply chain by entering a joint development agreement with LG Chem to co-develop critical cathode and anode materials for sodium-ion architectures. This targeted partnership

focuses on global ESS and EV markets, with both companies aiming to broaden their cooperation across renewable energy sectors to further promote sustainable development.

PetroChina: Deep engineering and the AI frontier

PetroChina has enhanced its core market competitiveness by positioning scientific and technological innovation as its primary development strategy, backed by a massive R&D expenditure of RMB 27.25 billion in 2025.

In engineering and chemical technology, the company achieved landmark results, including the successful completion of the ultra-deep Shendi Take-1 Well and the Shendi Chuanke-1 Well breaking through the 10,000-meter depth threshold, while simultaneously deploying a 100,000-ton-level gas-phase polyolefin elastomer (POE) complete technology and commissioning a proprietary solution-polymerized styrene-butadiene rubber (SBR) unit.

Notably, PetroChina established the PetroChina (Beijing) Digital Intelligent Research Institute Co., Ltd. to drive a comprehensive "Digital-Intelligent Transformation" strategy across its entire asset portfolio. The institute released the 300-billion-parameter Kunlun Large Model—the first registered industry large model in the energy and chemical sector—which leverages over 150 TB of high-quality industrial datasets to shorten exploration seismic processing cycles by over 20%, earning the firm the inaugural chair position of the Oil and Gas Industry Artificial Intelligence Large Model Innovation Alliance.



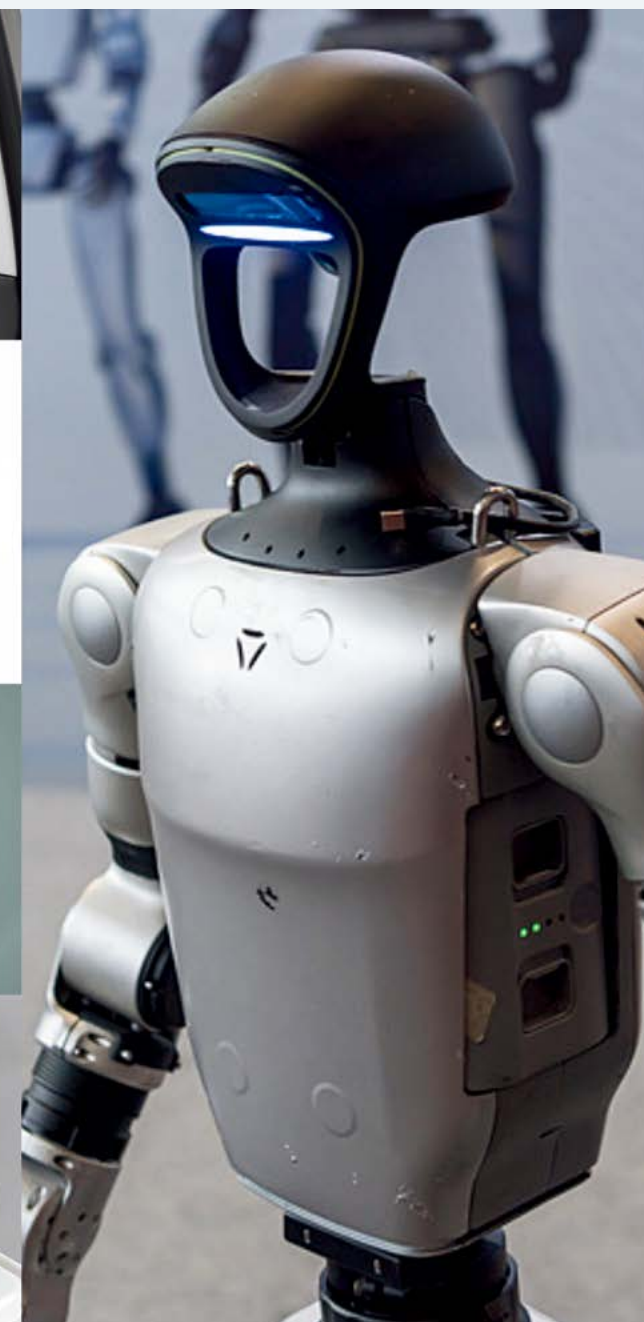
PetroChina has achieved large-scale production of high-purity POE. (Source: SunSirs)



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Wanhua Chemical: High-end polymers and green materials

In August 2025, Wanhua Chemical achieved a major milestone in high-end optical materials by successfully commissioning its 50,000-ton-per-year optical-grade MS resin project on the first attempt, utilizing an independently developed continuous bulk polymerization process to establish a complete industrial chain technology platform for large-scale production of optical displays and household chemical packaging.

Meanwhile, the company has rolled out its Integrated Biomedical Materials Solution under the Wanhua Medical Platform, supplying biocompatible polymer portfolios like medical-grade Wanthane TPU for catheters and tubes, optical-clarity polycarbonate (PC) for syringes and dialyzers, and high-performance sulfone polymers (PSU/PPSU) capable of withstanding repeated high-temperature steam sterilization.

On the circular front, Wanhua Chemical leverages innovative mechanical recycling methods to recycle automotive and industrial PC into high-quality rPC materials, alongside producing a recyclable TPU with 30% recycled content that slashes carbon footprints by 20%.

Besides, Wanhua Chemical employs a novel thermal and catalytic cracking technique for PP/PE recycling to facilitate industrial-scale integration. It also successfully broke through in chemical recycling of PC, converting waste PC back into bisphenol A.

Furthermore, the company has aggressively entered the new energy supply chain by expanding into lithium iron phosphate cathodes and graphite anodes, positioning itself as a major international player in the ESS and EV sectors.

Rongsheng Petrochemical: Strategic synergy and partnership

Rongsheng Petrochemical has entered a major strategic development phase by signing a Project Development Agreement with SABIC for the Jintang New Materials Project, with SABIC evaluating a potential 30% to 50% equity stake in Rongsheng New Materials

ahead of a final investment decision.

This landmark collaboration merges Rongsheng's vast integrated industrial footprint, which features a total chemical production capacity exceeding 60 million tons, with SABIC's world-class technical expertise in polycarbonates and engineering thermoplastics to produce high-performance resins, biodegradable plastics, specialty polyesters, and premium functional fibers.

By integrating SABIC's proprietary technology and global commercial network, Rongsheng is extending its industrial chain to supply advanced chemical materials that precisely meet the growing demand from high-growth downstream sectors like new energy, electrical and electronics, and high-end packaging.

Hengli Petrochemical: Proprietary R&D and import substitution

Hengli Petrochemical has extended its strategic focus to high-performance materials by establishing a dedicated R&D framework supported by a multi-billion RMB investment to bridge the gap between academic research and industrial production.

A cornerstone of this strategy is the Hengli-DUT Research Institute, launched through a high-level strategic partnership with the Dalian University of Technology, which acts as a commercial engine to transition laboratory breakthroughs directly into large-scale production pipelines for chemical engineering, advanced materials, and green manufacturing.

A prime example of Hengli's advanced material innovation is its success in filling critical gaps within the high-end domestic market. The company successfully mass-produced its 23050 high-density polyethylene (HDPE) pipe-grade resin, achieving top-tier PE100 certification to replace imported polyolefin resins in high-pressure, long-distance pipeline systems, thereby ensuring localized supply security for critical domestic infrastructure.

Alongside this breakthrough, Hengli's innovation pipeline has also enabled the mass production of ultra-fine chemical fibers, cementing its position as a self-reliant powerhouse in polymer and chemical manufacturing technologies.

Jiangsu Eastern Shenghong: Autonomy in PV film materials

Jiangsu Eastern Shenghong has accelerated its research into technologies to upgrade the supply chain for strategic emerging industries, including focusing on advanced materials like POE and high-grade ethylene-vinyl acetate (EVA)—critical components for photovoltaic (PV) encapsulation films.

By achieving complete independence in POE catalysts and production techniques, the company is the sole domestic enterprise capable of manufacturing both mainstream PV film encapsulation materials, a capability solidified by the launch of its 100,000 tons/year POE project in August 2025 and its nationally top-ranked, 13-patent PETG device.

Eastern Shenghong also utilizes a specialized EC/DMC device to produce electronic-grade materials for the new energy sector.

In tandem with high-end production, Eastern Shenghong leverages green technology via a "whole-process carbon reduction" strategy, utilizing nuclear power steam at three national-level green factories to cut carbon emissions by 966,000 tonnes annually, while operating a carbon-negative industrial chain that converts CO₂ into methanol.

Unlocking high-end solutions for global buyers

The top Chinese chemical firms' proactive responses underscore a deliberate and accelerated strategic shift toward high-value, sustainable, and technologically advanced material solutions.

By aggressively embracing the circular economy, funding cutting-edge R&D infrastructure, and forging key global joint ventures, these firms are insulating themselves from market downturn while securing long-term leadership in the shifting global material market.

For global buyers, this comprehensive transformation ultimately unlocks broader product options, providing a steady supply of high-end material grades and sophisticated application solutions across the entire international manufacturing value chain.

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Chinese suppliers accelerate local investment to scale up production and R&D

#ChinaPlastics #CapacityExpansion #R&D

While stepping up overseas market expansion, Chinese suppliers are investing substantial capital into domestic capacity expansion and R&D upgrading. A string of landmark projects was launched in 2026.

KUMHO-SUNNY breaks ground on US\$155 million manufacturing base

In May, Shanghai KUMHO-SUNNY Plastics Co., Ltd. broke ground on its new manufacturing base in Lu'an, Anhui Province, China. With a total investment of US\$155 million, the 25-acre site will be developed in two phases. Once complete, it will be the company's largest single production facility.



Groundbreaking ceremony of KUMHO-SUNNY's new manufacturing base in Lu'an.

The new manufacturing base will feature highly automated, low-carbon production lines designed to meet industry smart factory standards. The facility will primarily supply high-tech sectors, including new energy vehicles (NEVs), high-end home appliances, and advanced electronic materials, significantly boosting the company's capacity for premium modified plastics.

This new capacity in Lu'an will further solidify KUMHO-SUNNY's competitive edge in the modified plastics market. By securing a more efficient, low-carbon supply chain for East, Central, and Western China, the facility is set to catalyze the development of a regional high-end plastics and rubber

manufacturing cluster.

The Lu'an facility marks KUMHO-SUNNY's latest major smart manufacturing project, joining its existing production bases in Jinshan (Shanghai), Foshan (Guangdong), and Thailand.

Highsun AKRO invests US\$118 million in Fuzhou plant

Highsun AKRO Engineering Materials (Changzhou) Co., Ltd. invested a total of RMB 800 million (approx. US\$118 million) in Fuzhou plant.



Grand opening ceremony of Highsun AKRO's new Fuzhou plant.

The new plant, with an annual capacity of 100,000 tons, is equipped with advanced ICX innovative modifying and extrusion technology and engineered plastic formulating system from German AKRO-PLASTIC. It will mass produce AKROMID PA6, PA66, PPA, as well as AKROLOY PA66/PPA alloy material and customized color modified engineered plastic products.

Fuzhou plant will develop according to three directions:

1. Innovation: Build localized R&D laboratory based on German and Chinese technologies, empowering multiple industrial chain including

automotive, E&E, kitchen & bathroom, and more.

2. Green and low carbon: Introduce energy-saving manufacturing equipment.
3. Collaboration for win-win situation: Integrate into Highsun Group and continue to attract local experts to facilitate high-quality development in Fuzhou.

In the future, Highsun AKRO Engineering Materials' Fuzhou plant will focus on develop towards cost-effective, large-batch production. Along with the company's high-end modified material focus, the dual development strategy delivers all-rounded high quality engineering materials for customers.

Woerfu Chemical invests in NEV wave absorbing material inspection

Chongqing Woerfu Chemical Co., Ltd. partners with Fuling government in Chongqing, China to build a research institute for specialized engineering plastics. With a total investment of RMB 20 million, the project is a new-generation R&D institute, combining inspection & analysis, professional sectors, market connection, and result transformation into one.

The core of the institute is the world-first inspection center for wave absorbing material for NEVs. The center will focus on performance testing on "absorbing-type" electromagnetic shield material, covering on applications in NEV electric control, transportation communication, mmWave radar, 5G/6G communication, military & defense, and more.

The research institute is now under construction phase.

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Applications



Thin-Wall Food Packaging



Packaging Cap Products



Wanhua Chemical and Sinomax launch Joint Innovation Lab

On July 9, Wanhua Chemical and Sinomax launched the Joint Innovation Lab at Sinomax's Jiaxing site. The two companies also signed a strategic cooperation agreement.



Joint Innovation Lab at Sinomax's Jiaxing site.

Focusing on advancing differentiated, high-performance, and sustainable PU foam solutions, the Joint Innovation Lab features Wanhua Chemical's technological advantages in upstream raw material R&D

and market applications.

Wanhua Chemical focuses on upstream PU raw material R&D while Sinomax delivers its expertise in foam manufacturing, market-end application, and global market research ability. This collaboration builds a whole-chain R&D system, covering raw material R&D, formulation verification, process optimization, quality control, and market application, focusing on differentiated, high-performance, environmentally-friendly PU foam products R&D.

Jiaren New Materials opens new production base for polyester

In March, Zhejiang Jiaren New Materials Co., Ltd. opened its new base for producing polyester. The first phase of 50,000-ton production capacity is in operation.

The production base is equipped with an independent test cell and solid state polymerization (SSP) plant for producing high-performance fiber raw materials, supporting innovation and product

upgrading for circular material technologies. The distributed control system (DCS) in the new base enables automated and stable production.

In key processes, the new base achieves multiple technological innovations, including integrated application on gravity separation, purification, and discoloration, as well as 10,000-ton recycled DMT production. These technological breakthroughs improve resource efficiency of wasted textile products, building a solid foundation for scaling circular material use in the future.

LK Group builds new Intelligent Casting Research Institute

LK Group successfully topped out the main structure of its new Ningbo LK Intelligent Casting Research Institute on June 30, marking a critical milestone in the implementation of the Group's R&D strategy for high-end intelligent casting technologies.

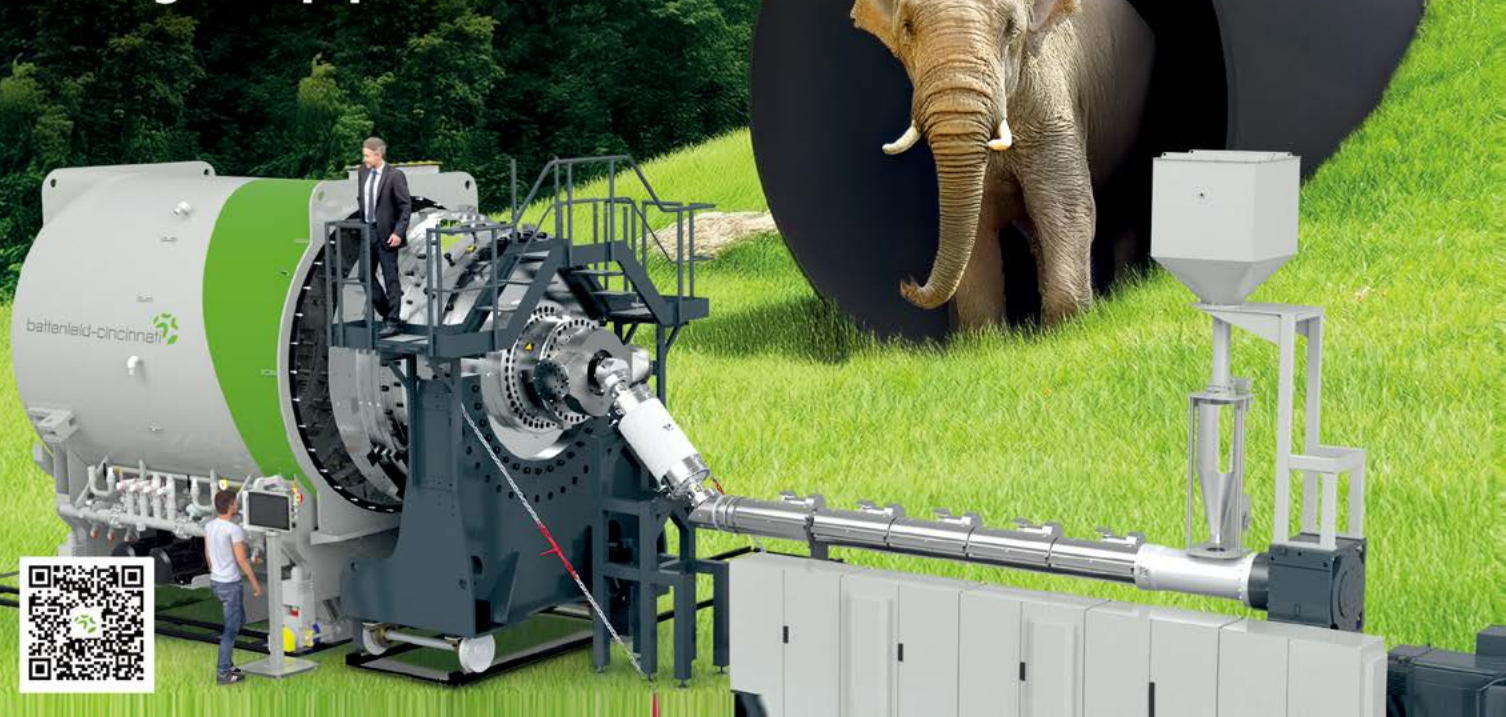
(Continues on P.34)



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Top 10 technology trends: Four transition pathways for climate-friendly materials

#TechnologyTrend #RecycledPlastics #Bioplastics

Driven by global carbon neutrality targets and tightening plastics regulations, climate-friendly materials have shifted from corporate sustainability initiatives and brand messaging into strict, mandatory requirements.

With the phased rollout of the EU's Packaging and Packaging Waste Regulation (PPWR), the Carbon Border Adjustment Mechanism (CBAM), and strict new mandates for recycled content and recyclability, material evaluation has fundamentally changed. Performance and cost are no longer the sole benchmarks. Instead, materials are now assessed through an integrated framework that heavily weighs carbon emissions, circularity, and regulatory compliance.

In this new landscape, climate-friendly attributes are no longer optional marketing extras—they are fundamental prerequisites for market entry.

The technology case studies in the "2026 Top 10 Technology Trends in Plastics and Rubber Report" demonstrate how regulatory compliance is actively shaping the transition pathways for climate-friendly materials.

Pathway 1: Lowering recycling barriers through structural design

This represents the most foundational pathway for climate-friendly materials. The core issue is not simply "how a product is recycled after use", but rather "whether it was designed with recyclability in mind from the start".

For many flexible plastic and packaging products, the primary obstacles to recycling do not stem from a lack of downstream technology. Instead, overly complex material structures and the excessive use of multi-material laminates continue to drive up sorting and recovery costs, often making recycling economically or logistically unfeasible.

ExxonMobil's recyclable plastic barrier lami-tube replaces conventional three-ply aluminum-plastic laminate with a simplified two-ply PE/EPE structure (EPE: PE-EVOH co-extruded film). This approach removes aluminum foil while maintaining barrier performance, heat sealability, and a balance of stiffness and toughness.

The composite tube thickness was reduced from 300 µm to 250 µm, providing a design solution that combines material reduction with recyclability for toothpaste, cosmetics, and condiment tubes.

Meanwhile, ExxonMobil's Vistamaxx performance polymers provide a polyolefin alternative to traditional PVC products, offering advantages in lightweighting and single-material design across applications such as transparent flexible sheets, films, and components. TPO sheets and films can reduce weight by approximately 30% compared with PVC at the same thickness, while also facilitating subsequent recycling and reprocessing.

Pathway 2: From "recyclable" to "high-value circularity"

This pathway represents the most industrially mature approach to climate-friendly materials currently available. Its primary objective is to determine whether recycled materials can be reused at an equivalent performance level and successfully upcycled into higher-value applications.

Borouge's Recleo advanced mechanically recycled polyolefin portfolio is applicable across storage crates, automotive components and air cushion packaging. The grades retain consistent product performance and batch-to-batch stability even with elevated PCR content. Its storage crate formulation containing 49% recycled PP cuts carbon footprint by roughly 35%, while RD209APC has secured commercial adoption for automotive component production.

Shanghai Ausell Material Technology resolves three core technical challenges: surface coating stripping, high-viscosity rubber separation and foreign contaminant removal, enabling high-performance closed-loop recycling of transparent PC from discarded automotive lamps. Through automated cleaning, AI identification, and digital traceability, the project enables stable large-scale production of PCR material at the ten-thousand-ton level.

Through its PCR-derived POM initiative, **Daicel HPP** successfully extends mechanical recycling into the engineering plastics sector. By establishing a domestic, closed-loop collection and production system across China, the project achieves a 30% PCR content rate for natural-color grades and has launched four distinct material grades tailored for automotive and machinery components.

Focused on automotive optical and exterior applications, **Wanhua Chemical's** mechanical recycling process converts acrylic waste into high-quality PMMA pellets. Formulated with 30% PCR content, the resulting material retains high gloss, low haze, outstanding weatherability, and strong thermal shock resistance, and is currently undergoing validation for automotive headlamps and exterior trim.



Wanhua Chemical's high-quality PCR PMMA pellets.



改性工程塑料中心 Modified Engineering Plastics Center

PC改性系列 PC Modified Series
PBT改性系列 PBT Modified Series
PPO改性系列 PPO Modified Series
PA改性系列 PA Modified Series
ABS改性系列 ABS Modified Series
PP改性系列 PP Modified Series

聚合物中心 Polymer Center

POM聚合物 POM Resins
ABS聚合物 ABS Resins
PC聚合物 PC Resins

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Based on a closed-loop renewable resource framework, **Shanghai Tianqiang Environmental Protection Technology** builds a three-in-one high-value waste plastic recycling solution featuring “dual network integration + digitalization + modification technology”.

The company boasts an annual plastic waste processing capacity exceeding 100,000 tons, generating annual revenues of more than RMB 400 million. Its recycled products retain over 95% of the performance of virgin materials. Across applications spanning courier bags, heavy-duty packaging, and plastic pallets, the company has successfully translated the closed-loop concept into a commercially viable, scalable business mode

Through process innovation, **Shanghai Re-mall Environmental Protection New Material** enables recycled polyolefins (r-PP/r-PE) to deliver key mechanical properties comparable to virgin materials, shattering the conventional stereotype that recycled plastics are limited to downcycled applications. This breakthrough qualifies these grades for premium, high-demand scenarios, including toys and food

packaging.

The company has also established a full-chain digital traceability system and a product-level carbon footprint accounting model. Every batch is backed by verifiable carbon reduction data, cutting carbon emissions by more than 80% compared to virgin equivalents. Backed by international certifications such as GRS and OBP, these environmental gains are seamlessly converted into actionable carbon labels and valuable ESG assets for brand clients.

The enzymatic recycling technology of **Yuantian Biotechnology** addresses two critical industry bottlenecks. First, it overcomes the limitations of conventional recycling methods, which cannot process blended textiles. This technology offers exceptional depolymerization capabilities by precisely targeting and breaking down the PET components within complex fiber blends, demonstrating unmatched feedstock adaptability.

Second, it eliminates the quality degradation issues inherent in mechanical recycling. This enzymatic process delivers virgin-grade quality on par with petroleum-based materials. Verified by SGS testing,

the product fully meets strict regulatory limits for critical impurities, including 4-carboxybenzaldehyde (4-CBA), benzoic acid, and p-toluic acid (p-TA), and passes Bisphenol A (BPA) testing at the ultra-strict 1 ppb threshold. By complying with the latest EU regulations, this technology enables true closed-loop upcycling for waste plastics.

Pathway 3: Achieving decarbonization at feedstock level

The bio-based substitution pathway drives low-carbon transformation right from the source. By replacing conventional fossil-based feedstocks with renewable resources like crops and biomass, this approach reduces lifecycle carbon emissions from the very outset of production.

Complementing recycling and circularity initiatives, this strategy works hand in hand with regeneration pathways to form the industry's dual-track decarbonization framework.

Covation Biomaterials' CovationBio bioPTMEG acts as a 100% bio-based alternative

2026 Top 10 Technology Trends in Plastics and Rubber Report published

In 2026, the plastics and rubber industry is navigating a highly complex landscape. Global supply chains are

undergoing rapid restructuring, fueled by ongoing geopolitical tensions that disrupt energy and raw material markets. Meanwhile, strict EU environmental frameworks, such as the PPWR, have taken effect, while artificial intelligence (AI) has deeply embedded itself into manufacturing operations.

Every executive board now faces compounding pressures from critical technology choices, escalating green compliance costs, and chronic demand uncertainty. In such a market environment, Adsale Plastics Network has published the “2026 Top 10 Technology Trends in Plastics and Rubber Report”, analyzing frontline industry shifts and technology breakthroughs to provide a clear roadmap for the future.

Adsale Plastics Network has published the “2026 Top 10 Technology Trends in Plastics and Rubber Report”.

The top 10 technology trends are:

1. Fast AI Evolution
2. Multiple Pathways for Climate-Friendly Materials
3. Multi-Material Compatibility of Recycling Equipment
4. Sustainability and Performance Upgrades for Additives
5. Functional Films Designed for Thinness, Strength, and Speed
6. Lightweight Materials for Emerging Industries
7. Multifaceted Advances in Medical Plastics
8. Optimization of Energy-Saving Technologies
9. Multi-Material Molding and Integrated Functionality
10. Enhanced Precision and Durability of Hot Runners

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to conventional fossil-based PTMEG. It delivers equivalent performance against fossil counterparts in high-end applications such as spandex, polyurethane and thermoplastic elastomers while substantially cutting greenhouse gas emissions.



CovationBio bioPTMEG is the 100% bio-based alternative to fossil-based PTMEG.

Nantong Polymax Elastomer Technology has developed a bio-based TPE for cable applications featuring a bio-based content exceeding 40%, verifiable through Carbon-14 testing. Combining a VW-1 flame-retardant rating with superior

high/low-temperature resistance and stable extrusion performance, these materials are ideal for USB cables, headphone cables, and consumer electronics wiring.

Runye (Chongqing) New Materials has pioneered an advanced compatibilization technology that seamlessly fuses biomass waste such as coffee grounds and buckwheat husks with polymer matrices. Utilizing a proprietary "temperature-controlled drying, modification, and coating" process, the company has achieved stable mass production and launched the world's first coffee-ground-reinforced composite for computer housings, successfully upcycling agricultural waste into high-value sustainable materials.

This solution satisfies the stringent ESG carbon-reduction mandates and supply chain entry criteria of leading global brands.

Pathway 4: Filling gaps in specific disposable and distributed applications

There is no single, catch-all pathway

for material transformation. In application scenarios where conventional recycling systems have limited reach, material structures are highly complex, or end-use collection is highly fragmented, biodegradable materials are emerging as an essential, complementary solution.

Zhejiang Boxai Biomaterials' F1012 PHA barrier cast film is formulated from 100% bio-based feedstock featuring home compostability and marine biodegradability for diversified packaging applications. It delivers outstanding water and oxygen barrier performance alongside waterproof and oil-resistant traits, high transparency and superior printability, suitable for packaging of tea, coffee, cosmetics and compostable tableware.

Green Fill Material Technology develops starch-based foam granules and related cushioning packaging products using a combined process of reactive extrusion and steam foaming. This completely eco-friendly foaming system

(Continues on P.34)



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Company Profile

Established in 2001, Shandong Sanyi Group Co., Ltd. is headquartered in Linqu Chemical Industrial Park, a provincial-level chemical park in Shandong Province. With a registered capital of RMB 200 million, covers an area of over 400,000 square meters, and employs more than 600 people. As a national high-tech enterprise, Sanyi Group specialize in the R&D, production and sales of advanced polymer materials. Its business scope covers PVC additives, industrial & architectural sealants, catalysts and other related products, with an annual production capacity of 160,000 tons of Chlorinated Polyethylene(CPE), 80,000 tons of PVC heat stabilizers, 160,000 tons of Acrylate Processing Aids(ACR), 30,000 tons of industrial and architectural sealants, 10,000 tons of catalysts, and 20,000 tons of styrene-acrylic & pure acrylic emulsions. The Group has formed a coordinated development layout across its core business sectors, with products sold throughout China and exported to more than 40 countries and regions.

Sanyi Group is equipped with 2 provincial-level and 6 municipal-level scientific and technological innovation platforms, and holds 102 authorized patents. It is a university-industry-research cooperation unit of Nanjing University of Science and Technology, and has been honored as a National Specialized, Refined, Differential and Innovative "Little Giant" Enterprise, National Green Factory, Customs AEO Advanced Certified Enterprise, China Plastics Industry Outstanding Contribution Unit, Top 10 Enterprises in China's Plastic Additives Industry, Shandong Social Responsibility Enterprise, Shandong Manufacturing Industry Single Champion Enterprise, Shandong "Dengling Enterprise"(a high-growth innovative enterprise), Shandong High-end Brand Cultivation Enterprise, Shandong Science and Technology Little Giant Enterprise, Shandong Innovative Small and Medium-sized Enterprise, Shandong Small and Medium-sized Enterprise Innovation R&D Center, Shandong Top 100 Innovative Potential Private Enterprises, Weifang "Hidden Champion" Enterprise, Weifang High Growth Model Enterprise, Weifang Advanced Grassroots Party Organization, and Weifang May 1st Labor Award. Multiple products have been rated as Shandong High-quality Brands and Famous Brands.

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Top 10 technology trends: Multi-material compatibility of recycling equipment

#TechnologyTrends #Recycling #ClosedLoop

Globally, over 100 billion garments are produced annually, yet the textile recycling rate remains below 1%. Similarly, PET tray recycling rates generally hover under 30%. The recycling industry faces severe sector-specific bottlenecks: grease contamination is notoriously difficult to remove from food packaging, fishing gear often consists of mixed netting materials, and appliance plastic flakes contain complex contaminants.

Across these diverse sectors, the core challenge remains identical: conventional recycling equipment struggles to efficiently process mixed, multi-material, and highly contaminated waste streams.

Reflecting these challenges, the “2026 Top 10 Technology Trends in Plastics and Rubber Report” focuses directly on multi-material compatible recycling equipment.

AI and intelligent sorting

Accurately separating material streams is the critical first step in processing multi-material waste, making advanced sorting essential for achieving high-purity recycled plastics. Historically, sorting relied predominantly on color and shape. Today, however, high-resolution hyperspectral and near-infrared (NIR) sensing—powered by AI algorithms and intelligent agents—enable equipment to detect the precise chemical composition of individual plastic flakes, driving intelligent quality control across the entire processing lifecycle.

TOMRA's new INNOSORT™ FLAKE sorter utilizes patented FLYING BEAM™ technology to accurately identify various plastic materials and distinguish differences among PET, PETG, PC, PS, etc. Meanwhile, it employs a high-resolution RGB camera to effectively remove colored flakes. The mechanical design of the sorter has been optimized, enhancing throughput by 20-40% while maintaining sorting efficiency.

Additionally, the FLYING BEAM™ technology can reduce energy consumption

and incorporating passive cooling, ensuring continuous and stable operation in high-temperature and high-humidity environments.

Hefei Meyer Optoelectronic Technology has developed a matrix of intelligent sorting agents powered by a proprietary large model. The matrix includes five specialized agents: raw material inspection, whole-bottle sorting, color selection, spectral material verification, and online quality control.

The system enables real-time inspection of bottle-brick feedstock and automatically generates quality reports. It can be rapidly upgraded to handle new bottle types. It also performs highly precise sorting of contaminants, such as tiny black spots as small as 0.5 mm and extremely light-colored impurities.

With spectral technology, the system can distinguish among multiple materials, including PET, PP, ABS, and flame-retardant plastics, while addressing the challenges of sorting small plastic particles ranging from 0.5 to 3 mm. Finally, the online quality-control analyzer continuously monitors finished products and issues quality alerts.

The matrix delivers “intelligent sensing, intelligent decision-making, and intelligent evolution”. By reducing dependence on manual work, it supports an end-to-end, dynamic quality-control system.

Sesotec's MAG FLAKE sorting equipment demonstrates advantages in removing metal impurities from crushed plastic flakes. Its detection accuracy reaches 99%, enabling it to accurately remove both magnetic and non-magnetic metal contaminants, including black plastics. It performs well even for very small impurities, such as residual aluminum foil left around bottle openings.

The equipment also offers a strong set of operational benefits, including high sensitivity, low material loss, low energy consumption, and high throughput. The equipment is currently in use at Zhejiang Haili Environmental Technology Co., Ltd.

Flexible crushing, washing, filtration, and melt extrusion

Plastic recycling is inherently challenging because feedstock characteristics, such as shape, moisture content, and density, vary significantly with every batch. Traditional equipment often struggles to maintain consistency across these variations; lightweight materials may fail to feed properly, highly contaminated waste frequently clogs screens, and any fluctuation in incoming feedstock can trigger a disruptive chain reaction. This volatility ripples from crushing through washing and filtration to melt extrusion, ultimately compromising the quality of the recycled pellets.

To address this, equipment manufacturers are shifting their design philosophy. Rather than focusing solely on maximizing throughput, they are prioritizing flexibility and compatibility at each stage of the process. Acknowledging that the ability to handle mixed and contaminated waste is what recycling facilities genuinely require, processing these complex streams is fast becoming a core competitive advantage.

Crushing

ENMA has developed a modular single-shaft shredder with a design that is easy to disassemble and reassemble. This reduces production complexity, supports standardized, large-scale manufacturing, and significantly shortens delivery lead times. The equipment also allows



ENMA Shaft Modular Crusher.



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configuration customization, providing tailored solutions for specific materials and capacity requirements.

Energy-efficient and highly adaptable, the equipment supports intelligent maintenance and environmentally compatible operation. It can process plastic materials of different types, shapes, sizes, and weights, demonstrating strong versatility and adaptability. It is suitable for customers worldwide and for production facilities of various scales, and has been successfully adopted by recycling companies in Japan, the US, and China.



GET Recycling has achieved the closed-loop of discarded finishing net.

Washing

Zhejiang Boretech Environmental Engineering has delivered a PET tray washing solution (Compatible with PP) with four major technical breakthroughs: (1) an efficient material dispersion technology that handles high-density feedstock without easy breakage; (2) an intensive hot washing process that achieves a glue and label removal rate of over 90%; (3) a mega aspirator with a label separation rate above 99% and a flake carryover rate below 1%; and (4) enhanced yield that keeps PET material loss at below 10%.

The final product meets food-grade requirements, with residual adhesive below 2,000 ppm and PVC content below 50 ppm, aligning with FDA and EFSA standards.

The solution offers low-loss, high-cleanliness, modular design, and fully automated continuous production. It has been installed and used in a demonstration plant in Zhejiang, China.

GET Recycling has developed technologies for washing and purifying discarded fishing nets, building a closed loop: discarded fishing nets → recycled raw materials → circular applications.

The project achieved three breakthroughs: (1) addressing the “ghost net” problem that drives marine plastic pollution; (2) reducing recycling costs through an efficient recycling system; and (3) increasing the purity of recycled material to 99.5% or higher, expanding application scope.

The system was deployed in two lines—one for washing PA + HDPE mixed materials and another for washing PP ropes/cables. It uses a closed-loop water-circulation system to overcome the challenges of separating mixed materials while maintaining stable throughput.

Changzhou Dyun Environmental Technology has developed a PP food container washing line featuring a compound process: flexible crushing + high-temperature hot washing + multi-stage rinsing + high-efficiency friction washing. The system deeply removes grease, sauce residues, and odors. The full line integrates modules such as dewatering, hot-air drying, and color sorting separation, enabling end-to-end automation that reduces labor dependence and material losses.

The system can be flexibly customized. Its enclosed design operates with low noise and controllable emissions. The resulting PP recycled material delivers high cleanliness, low loss, and strong stability, enabling seamless integration with downstream pelletizing. It addresses industry pain points such as heavy-oil contamination, weak feedstock compatibility, and poor line-to-line coordination.

Filtration

Huizhou Tianhong Machinery offers the TX series no-screen filters based on a cylindrical micro-hole filter cartridge and a high-frequency intelligent scraper self-cleaning system. This design supports uninterrupted continuous operation for 30 days or more, eliminating downtime and avoiding losses caused by filter changing.

With the company's proprietary micro-hole processing technology (drilling speed up to 200 holes/sec), the filter cartridge achieves precision up to 250 mesh (60 μm). Compared with traditional multi-layer mesh solutions, filtration costs are reduced to a fraction of the original level.

The system is widely compatible

with various contaminated thermoplastic recycling feedstocks such as PE, PP, ABS, and PET, and it does not require pre-washing. The filter cartridge life exceeds two years with no performance degradation. It has been operating stably for more than 12 months at a site in Hunan, where product pass rates improved from 88% to 99.5%.

Melt extrusion

Special features of **Starlinger's** new recoSTAR dynamic art recycling systems include the spin-feed technology and the Dynamic Automation Package (DAP). Technically sophisticated design elements, such as the newly conceived ribs in the SMARTfeeder, where the input material is prepared for extrusion, and the special geometry of the cone bushing and the feed zone of the extruder, ensure that the material is held longer and enters the extruder with more pressure and spin.

The DAP ensures maximum production efficiency by detecting fluctuations in the input material due to differences in bulk density, size, or moisture content, and regulates the extruder speed accordingly. It also responds to interruptions in the material feed by automatically putting the system into standby mode and restarting it when production resumes.

The new Starlinger underwater pelletizing unit works particularly efficiently at high throughput rates and allows the processing of a wide variety of input materials. The large multi-touch panel ensures convenient and clear operation.



Starlinger's recoSTAR dynamic art recycling system.

The **battenfeld-cincinnati** STARextruder planetary roller extruder eliminates the energy-intensive pre-drying step, significantly reducing operating costs. By pairing the planetary roller section with a high-vacuum system, it efficiently removes moisture and volatiles while minimizing any drop in intrinsic viscosity (IV).



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The versatile extruder processes flakes, pellets, and agglomerates, and it can switch seamlessly between PET, PP, and PS without requiring screw changes. Its energy-saving performance has already been validated on customer production lines in China and Vietnam.

Hunan Vary Tech has achieved three major technological breakthroughs with its appliance plastic mechanical recycling and end-to-end PCR traceability project: (1) its high-purity sorting process uses a dual-axis shredding and vertical crushing combination to achieve a 98% sorting purity; (2) its closed-loop mechanical recycling converts waste plastic into high-purity rHIPS, rABS, and rPP pellets with a 99% purity rate and a color variance of $\Delta E \leq 0.3$, which are then reused in keyboards and small appliances; (3) its digital traceability system provides complete tracking from raw material to finished product, supporting Digital Product Passport and PPWR compliance.



Vary Tech's recycling system for household appliance plastics.

This system works alongside a batch management tool to monitor impact strength, flame retardancy, and other metrics in real time. The resulting products are already used by top brands like Bosch, Lenovo, Ford, NIO, and Estée Lauder.

Zhejiang Comy Environmental Technology enables molecular-level recycling of waste plastic through its two proprietary technologies: PTO (Low-temperature & Low-pressure Catalytic Pyrolysis with Synchronous Reforming) and PTP (High-selectivity Catalytic Cracking & Olefin Reforming).

Supported by over 90 patents, the process reduces carbon emissions by approximately 2 tons per ton of plastic processed. It yields products of identical quality to virgin, petroleum-based plastics, making them suitable for high-end applications. With multiple projects already deployed in China and Europe, Comy has

successfully closed the loop from mixed plastic waste to food-grade plastics.

Textile-to-textile closed loop

While appliance and fishing net recycling follow relatively mature pathways, the textile industry faces a critical bottleneck: blended fabrics. Modern garments are rarely composed of a single material, frequently combining cotton with polyester or polyester with spandex. At the end of life, these blends present severe recycling challenges; manual sorting is impractical, and conventional mechanical recycling remains ineffective. Consequently, massive volumes of textile waste are incinerated, landfilled, or downcycled, leaving true fiber-to-fiber recycling virtually non-existent.

Today, a clear technical roadmap has emerged: separation followed by regeneration. Front-end chemical or physical separation disassembles the blends, while back-end viscosity enhancement restores the polyester's performance, enabling it to be respun into high-quality fibers.

TOMRA's AUTOSORT™ multifunctional sorting system integrates high-precision near-infrared (NIR), visible light spectroscopy, laser, and metal sensing technologies with artificial intelligence. This combination enables the precise identification of textile materials and colors, including cotton, polyester, wool, acrylic, and various blends, overcoming the industry bottleneck where manual sorting fails to handle complex, mixed materials.

Backed by 30 years of technological expertise, this equipment serves as a critical enabler for industrial-scale textile recycling and fiber-to-fiber recycling. TOMRA has established a mature ecosystem encompassing multi-material identification, high-precision sorting, and end-to-end closed loops. The technology is successfully deployed in the world's first fully automated textile sorting plant, as well as multiple industrial projects across the UK and France.

Aceretech Machinery's textile-to-textile technology focuses on high-efficiency, closed-loop recycling for waste fibers, fabric scraps, and textiles. Its core advantage lies in an inline, one-step viscosity enhancement process that boosts intrinsic viscosity (IV) by 0.15–0.2 within 20 minutes, eliminating the need for offline treatment.

By integrating shredding, friction compaction, melt filtration, and pelletizing into a single highly automated line, the complete solution achieves a "waste fabrics in, spinning-grade chips out" workflow. These recycled chips can be fed directly back into chemical fiber production to guarantee premium circular quality. The solution has already been successfully deployed at a Turkish chemical fiber company.

By introducing reactive functional groups including hydroxyl, carboxyl, epoxy, amino and anhydride, **Guangzhou City Mingshen New Materials** controls molecular chain degradation, phase separation and impurity interference in recycled plastics.

This technology tackles industry pain points in multi-material blends, high-impurity matrices, and highly degraded systems where the mechanical properties of recycled materials typically plummet, compatibility is poor, and processing is unstable. It significantly boosts the recycling efficiency and added value of recycled plastics.

When applied to chain extension recycling for spunbond fabric waste containing PP and PET, the material achieves an impact strength of over 7.



Mingshen New Materials has developed the approach of modifying recycled plastics by using multi-functional polymers.

In the long run, multi-material compatibility is no longer merely a premium feature for recycling machinery; it has become a core competitive advantage for companies operating within the circular economy.

Through the deep integration of hardware and software, the recycling industry is steadily shifting from isolated, single-feedstock recycling toward the large-scale, high-value circular utilization of mixed waste streams, driving sustainable growth across the entire circular ecosystem.

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(Continued from P.26)

boasts a starch content exceeding 90%, delivers an expansion ratio of up to 150-fold, features 100% natural biodegradability, and contains zero microplastics.

To eliminate the excessive storage and logistics costs inherent to traditional cushioning materials, the firm's proprietary single/twin-screw, two-stage composite extrusion setup successfully decouples masterbatch preparation from the foaming process. This enables flexible, on-demand, just-in-time manufacturing.

Overall, the plastics and rubber industry has shifted its focus away from breakthroughs in single, standalone low-carbon technologies. Instead, a comprehensive decarbonization framework has emerged. Each of these four transition pathways plays a unique role and features a distinct level of commercial readiness.

(Continued from P.20)



Topping-out ceremony of the Ningbo LK Intelligent Casting Research Institute.

The Ningbo LK Intelligent Casting Research Institute will cover new technology development, trial production and testing of new products, pilot testing of industrial robots, and technical services for overseas markets.

This project serves as LK Group's core scientific and innovation carrier to seize future industrial opportunities and claim technological high ground.

It also represents a key strategic

layout for the Group to deepen its presence in high-end equipment manufacturing, boost industry-university-research collaboration, and advance cutting-edge industrial technologies.

Dual pathway: Local and overseas expansions both matter

Alongside their "going global" strategy, Chinese suppliers have rolled out large-scale domestic investments in new production and R&D facilities.

Apart from expanding production capacity and quality, the projects focus on industry hot topics - low-carbon production, technological innovations, and specialized materials for high-demand industries including NEVs and E&E.

These projects help consolidate domestic supply chains, build regional advanced manufacturing clusters, and lift China's plastics industry from mass production to innovation-driven, high-value manufacturing.



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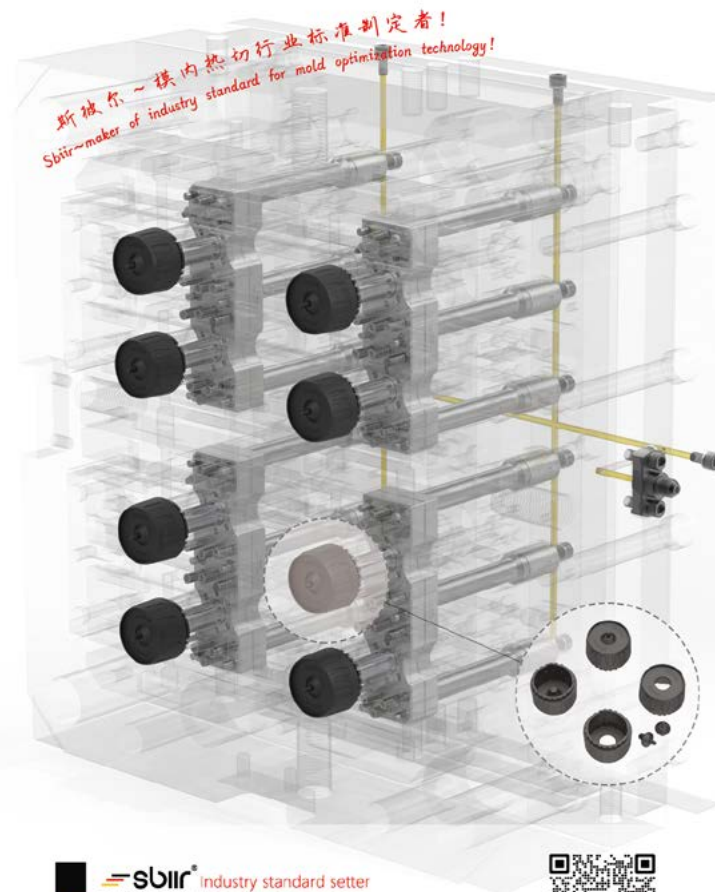
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In-mold coating taking automotive component manufacturing to “new plain”

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Polyurethane (PUR) in-mold coating (IMC) has been increasingly adopted in new automotive projects recently. Li Auto has completed mass-production validation for ultra-large exterior components, while Geely has launched new large-size exterior trim programs.

Equipment suppliers including KraussMaffei, Haitian International, Yizumi, and ENGEL continue to expand their presence in polyurethane IMC, while material suppliers such as Wanhua Chemical, Covestro and SABIC are also accelerating related application development.

This momentum is no coincidence. As new energy vehicle (NEV) designs continue to evolve toward greater integration, larger component sizes and more personalized styling, conventional coating processes are facing mounting pressures in terms of cost, efficiency and environmental compliance. Automakers are actively seeking new manufacturing solutions, and polyurethane IMC is emerging as a technology well aligned with this industry shift.

What are the benefits of in-mold coating?

Polyurethane IMC is a manufacturing process that integrates molding and surface coating within the mold cavity. After the plastic substrate is injection molded, a PUR system is introduced into the mold, where it reacts and cures to form a coating layer on the part surface. Upon mold opening, the finished component emerges with its final surface finish.

This process integrates conventional coating operations into the molding cycle, eliminating the need for separate coating lines.

The technology is primarily applied to automotive plastic exterior components, including bumpers, grilles, decorative trims and other parts with complex geometries.

Compared with conventional processes, IMC technology offers several benefits:

- It streamlines production workflows and eliminates dedicated coating lines, cutting floor space and equipment investment.
- It improves surface quality by addressing common coating defects such as sagging and color variation.
- It reduces the consumption of coatings and organic solvents, easing subsequent environmental treatment requirements.

In essence, the technology addresses the automotive component industry's demand for improving efficiency, enhancing product aesthetics, and reducing carbon emissions.

Nevertheless, to fully realize the advantages of IMC in mass production, targeted optimization is required across machine architecture, PUR delivery systems and dedicated material formulations. This has driven the emergence of multiple technical approaches.

KraussMaffei: Validation of large-size exterior applications

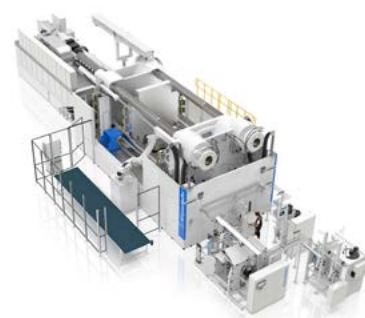
KraussMaffei, together with partners including Li Auto, Changchun FAWAY Tong Yang Automobile Plastic Components, and Zhejiang Wanlong Mould Co. Ltd., successfully achieved the production of China's first large-size ColorForm in-mold coated exterior component at its Jiaxing manufacturing base.

The newly produced exterior part achieved multiple industry breakthroughs, marking the expansion of ColorForm in-mold coating technology from interior components and small exterior parts to large-size and complex-structure exterior

applications. The key foundation behind this breakthrough is KraussMaffei's 3,200-ton ColorForm injection system.

The project addressed several long-standing application challenges of ColorForm technology. It not only expanded the applicable substrate range to PP materials, but also improved coating uniformity and interlayer adhesion on complex geometries.

The process capability was extended from small parts measuring 0.5 m x 0.5 m to ultra-large exterior components, while overcoming sealing challenges for parts with deep stepped features and internal parting lines.



Coating in the mold with ColorForm system from KraussMaffei.

ENGEL: High surface quality and functional integration

ENGEL's clearmelt technology is also designed for applying a PUR coating layer onto plastic components inside the mold, replacing conventional painting or coating processes. Recently, ENGEL has further upgraded this technology.

The new design eliminates the standard

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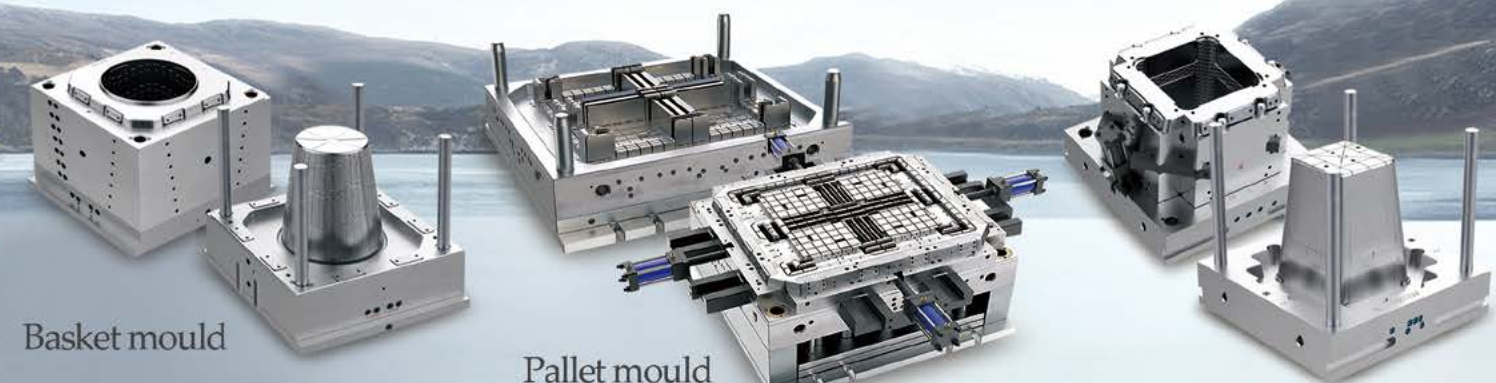
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injection unit on the side of the fixed platen and replaces it with a PUR unit. The thermoplastic component is injected from the moving side of the machine, while the PUR mixing head is arranged on the fixed platen. This configuration brings the PUR technology closer to the mold, shortening PUR feed lines while making the overall system more compact, easier to operate, faster for changeovers and more cost-efficient.

The upgraded solution delivers several advantages:

- significantly shortened PUR supply line length;
- up to 25% reduction in required footprint, generating substantial cost savings;
- enhanced system flexibility;
- reduced investment in installation, operation and maintenance for processors.



ENGEL's new system concept for clearmelt technology requires around 25% less floor space.

Haitian and Hennecke: Integrated injection molding and PUR system

To address the challenges of conventional "injection + post-molding coating" processes, including high investments, high emissions, and unstable yield rates, Haitian and Hennecke have joined forces to combine injection molding equipment expertise with core technologies in PUR high-pressure mixing and precision metering.

Together, they have achieved full-process system integration and overcome challenges to mass production of large-size automotive exterior components.

Successful implementation of the complete process requires coordinated integration among injection molding machines, reaction injection molding (RIM), molds, raw materials and automation solutions.

Haitian's JU7500M/2400 dedicated in-mold coating solution for automotive grilles has been specifically optimized for front

grille applications, improving production efficiency while reducing investment in standalone coating lines and environmental treatment equipment.

Hennecke has provided comprehensive support covering the whole process, including raw material feeding, precise metering, high-pressure impingement mixing, atomized spraying, temperature control, and automated production line integration. These technologies ensure the consistency of PUR-coated parts, material utilization efficiency, environmental performance, and production line stability.

Yizumi and Wanhua Chemical: Collaboration between localized equipment and materials

Over the past two years, Yizumi and Wanhua Chemical have established deep collaboration across multiple projects, jointly presenting customers with integrated process solutions.

Yizumi has introduced the ReactPro technology, focusing on equipment integration for in-mold reaction molding processes.

Meanwhile, Wanhua Chemical has developed the Surface-form Pro material system, with targeted optimization in scratch resistance, weatherability and surface appearance stability.

The partnership focuses on the co-development of equipment and materials. The two companies are shortening process industrialization cycles and improving the compatibility of local supply chains.

This collaborative model primarily targets large-scale applications of automotive exterior components in the Chinese market.

Covestro: Direct Coating based on PC system

Covestro's Direct Coating technology integrates injection molding and coating within the same production cycle, eliminating the need for subsequent baking processes.

The chemical company's Makrolon IMC2477 polycarbonate material has been specifically developed and optimized for IMC processes, delivering excellent adhesion performance with PUR coatings.

Due to equipment variations, conventional coating processes typically achieve coating utilization rates of only 40%-65%, while IMC can exceed 95%. IMC also enables zero VOC emissions through 100% solids formulations and significantly reduces scrap rates. Although material costs would be higher, it offers clear advantages in overall production costs.

This system has already been applied in selected automotive exterior and functional components, including illuminated grilles, smart exterior components and parts featuring integrated functional display structures.



Covestro's Direct Coating is a modified 2-shot molding process combining injection molding with reaction injection molding in a single mold.

SABIC: Customized material solutions for IMC program

Geely, together with SABIC and Minth Group, recently held a strategic project meeting for an IMC program at the Geely Automobile Research Institute.

The project marks the successful validation of large-size exterior component manufactured using advanced IMC technology, with mass production scheduled to begin soon.

Reshaping the manufacturing landscape

The ongoing exploration and adoption of IMC technology is reshaping manufacturing approaches for automotive plastic exterior components.

Notably, this front-end process integration, backed by full-chain collaboration, is expected to expand beyond the automotive sector and find widespread application in other industries, such as home appliances and consumer electronics.

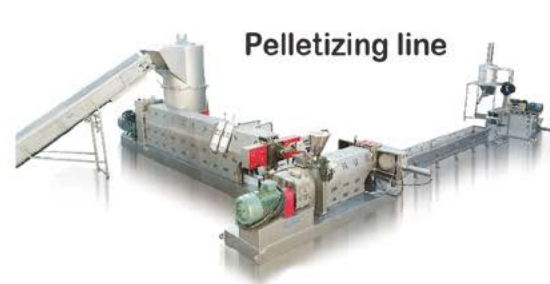


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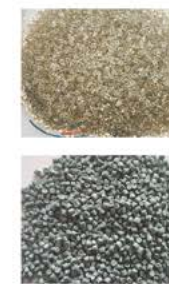
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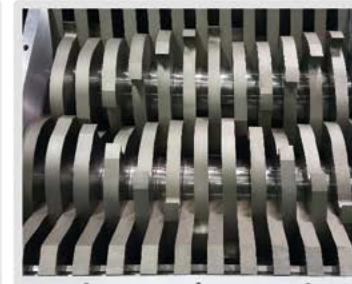
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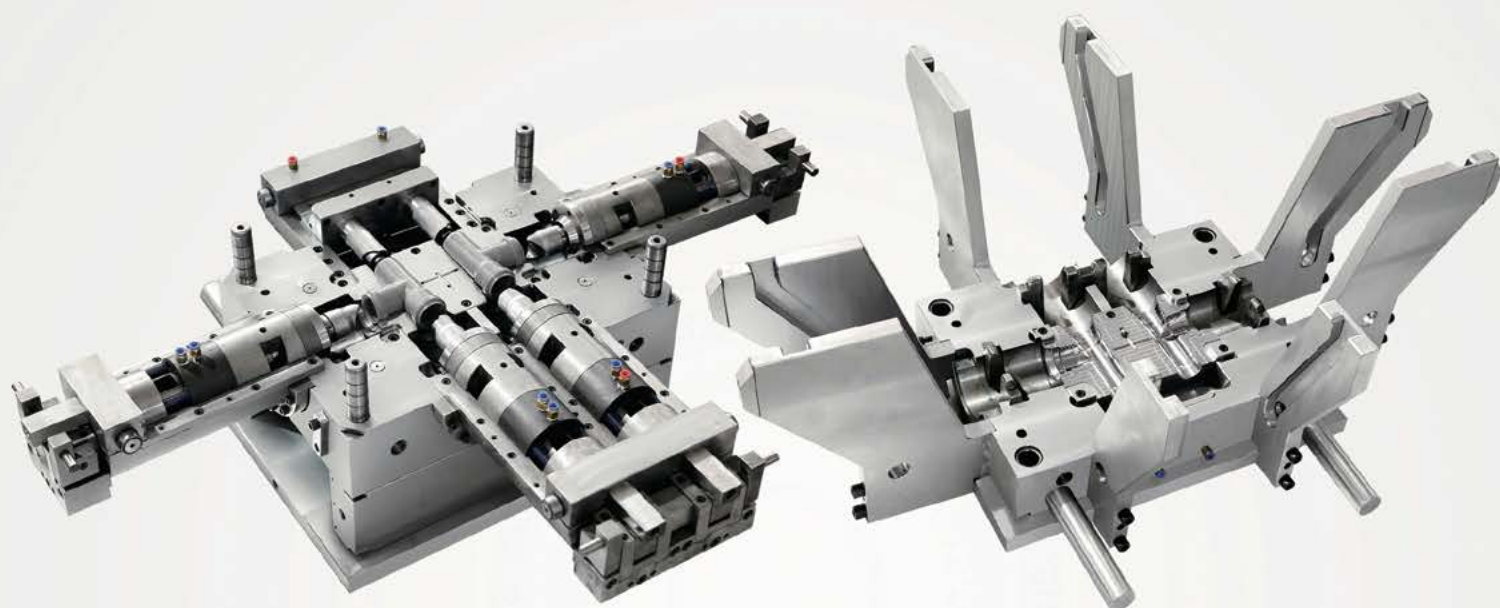


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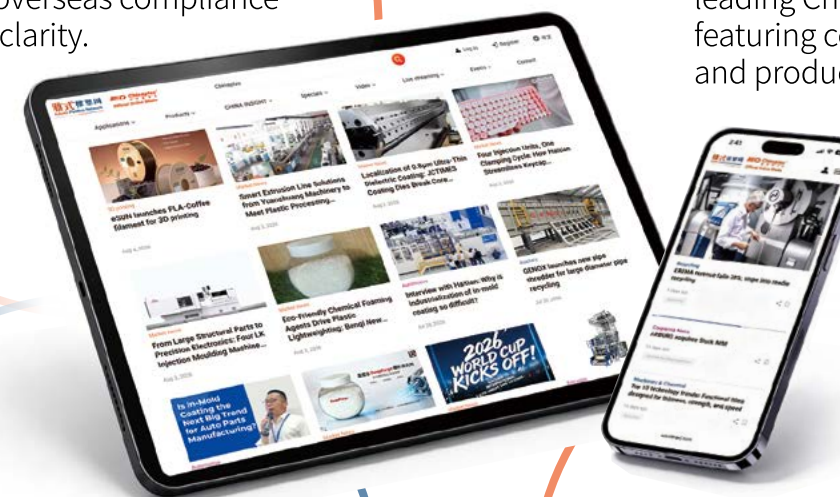
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CRRE 2026: Connecting global stakeholders across resource recycling value chain

#CRRE #Recycling #CircularEconomy

As the world rapidly progresses toward carbon neutrality, resource recycling has evolved from a purely environmental initiative into a strategic pillar of global competitiveness, a high-growth market, and a foundation for resilient supply chains.

To seize this pivotal moment, the China National Resources Recycling Association (CRRA) and Adsale Exhibition Services Ltd. co-organize the inaugural Circular Resources and Recycling Expo (CRRE).

Scheduled for November 25-27, 2026, at the Suzhou International Expo Center in Suzhou, China, CRRE 2026 is positioned as a premier national-level platform featuring deep value-chain integration and extensive international engagement.



CRRE 2026 will be held from November 25-27 at the Suzhou International Expo Center, China.

A comprehensive dual-format platform

Spanning across 20,000 square meters, CRRE 2026 adopts a dual format that combines high-level conferences with an on-site trade exhibition. It is projected to host over 200 global exhibitors alongside dedicated thematic showcase areas.

CRRE 2026 covers a comprehensive scope across multiple recycling sectors, including plastics, textiles, metals, electronics, batteries, automotive components, solar modules, and wind turbine blades.

Knowledge sharing and high-level networking

Knowledge exchange will be driven by

various conferences and forums, highlighted by two flagship conferences: the ESG Development Conference and the Circular Resources and Recycling Conference.

To facilitate concrete commercial outcomes, the expo will feature invitation-only business matching meetings. These sessions will connect exhibitors and visitors directly with procurement decision-makers from major global corporations, including BYD, CATL, P&G, and IKEA.

Strategic China-Egypt collaboration

Underscoring its international reach, CRRE 2026 is set to welcome multiple foreign delegations, including a prominent group from Egypt.

The organizers recently signed a strategic cooperation Memorandum of Understanding (MOU) with Eco Green Waste Management (EGWM) and the E-Waste Committee under the Federation of Egyptian Industries (EWC-FEI).

Led by Ahmed Salem, Chairman of both EGWM and EWC-FEI, this partnership aims to advance China-Egypt collaboration in technology development and business matching to accelerate the global circular economy.

The Egyptian delegation will bring approximately 40 senior executives, general managers, and decision-makers representing Egypt's core green economy sectors, such as municipal solid waste treatment, plastics recycling, power battery recycling, and textile recovery.

Notably, the delegation includes representatives from Egyptian Electronics Recycling Co. (EERC), a leading e-waste recycler, and Ertekaa, one of Egypt's largest solid waste recycling corporations.

Targeted procurement mission

During the expo, the Egyptian delegation will actively pursue

manufacturing and technology partnerships, focusing on procurement across three core sectors:

- **Electronics and metal recycling:** Advanced e-waste collection systems, processing lines, and hydrometallurgical precious metal recovery equipment for printed circuit boards (PCBs).
- **New energy and resource recovery:** Comprehensive recycling systems for lead-acid and lithium-ion batteries, waste tire processing lines, industrial solid waste treatment technologies, textile recycling systems, and integrated paper-pulp and plastic processing systems.
- **Precision sorting and recycling:** Municipal solid waste sorting systems, high-efficiency PET flake washing lines, and automated smart sanitation and waste collection-transport equipment.

This targeted procurement mission highlights Egypt's accelerating demand for advanced recycling technologies and exemplifies CRRE 2026's role as a vital cross-border business facilitator.

Partner for the future

As the resource recycling sector enters a new era of strategic growth, CRRE 2026 offers an unparalleled gateway to the Asia-Pacific market and beyond. The expo will serve as a vital catalyst driving international cooperation and shaping the future of the global circular economy.

Industry stakeholders are invited to join this premier platform to unlock new commercial opportunities and collaborate toward a carbon-neutral future.

CRRE 2026

Date: 25-27 November 2026

Venue: Suzhou International Expo Center, China

Website: <https://www.crre-expo.com/en>

Email: CRRE@adsale.com.hk



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Plast Eurasia returns to Istanbul in December 2026

#PlastEurasia #PlasticsExhibition

Plast Eurasia is one of the biggest international plastics industry fair in the Eurasian region. This year, the fair will welcome its 35th edition from December 2 to 5 at TÜYAP Fair and Congress Center in Istanbul, Türkiye.

Held annually, Plast Eurasia is organized by Tüyap in cooperation with



Plast Eurasia 2025.

PAGEV (Plastics Industrialists Research Development and Education Foundation). Spanning across 125,000 square meter, this year's edition expects to have over 1,700 exhibitors from 50 countries and attract more than 80,000 visitors from 150 countries.

Plast Eurasia will showcase a variety of products and technologies, including plastics machinery, machinery equipment and sub-industry products, molds, recycling, heat and control devices, automation, cooling systems, raw materials and chemicals, and semi-finished goods.

The solutions will focus on innovation, sustainability, automation, and more industry hot topics for plastic processing, packaging, automotive, electronics, construction, medical, textile, and many more industries.

Following last year's success, the featured "The Plastics Days" event series will continue at this year's Plast Eurasia. Bringing together companies, industry leaders, academics, and young talents, this event series include:

- Exhibitors on Stage: Exhibited companies will showcase their innovative products and technologies in short presentations.
- Panels: Experts in different sectors will give insights on sustainability, innovative technologies, and the future of the industry.
- Career Path: Career stories, skills, and development sessions will be held specifically for young professional.
- Networking Areas: International buyer delegations and industry-leading companies will have one-to-one networking opportunities.

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Sept 9-12, 2026
Ho Chi Minh City, Vietnam
<https://vietnamplas.chanchao.com.tw/en>



TaipeiPLAS 2026
Sept 15-19, 2026
Taipei, Taiwan Region
<https://www.taipeiplas.com.tw/en/index.html>



The 24th Vietnam International Printing & Packaging Industry Exhibition (VietnamPrintPack)
Sept 16-19, 2026
Ho Chi Minh City, Vietnam
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8th Edition CPRJ Medical Plastics and Rubber Conference and Showcase
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Suzhou, China
<https://www.adsalecprj.com/en/seminar/2102.html>



AMI Compounding & Recycling Expo
Sept 23-24, 2026
Frankfurt, Germany
<https://events.amiplastics.com/compounding-recycling-expo-eu>



Fakuma 2026
Oct 12-16, 2026
Friedrichshafen, Germany
<https://www.fakuma-messe.de/en/>



15th Edition CPRJ Plastics in Automotive Conference and Showcase
Nov 12-13, 2026
Shanghai, China
<https://www.adsalecprj.com/en/seminar/2104.html>



interpack China 2026
Nov 16-18, 2026
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<https://www.interpack-cn.com/en/>



Plastics & Rubber Indonesia
Nov 17-20, 2026
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<https://www.plasticsandrubberindonesia.com/>



Formnext Frankfurt
Nov 17-20, 2026
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<https://formnext.mesago.com/frankfurt/en/expo.html>



Circular Resources and Recycling Expo 2026 (CRRE)
Nov 25-27, 2026
Suzhou, China
<https://www.crre-expo.com/en>



Plast Eurasia Istanbul 2026
Dec 2-5, 2026
Istanbul, Turkey
<https://plasteurasia.com/en>



The 33rd China International Exhibition on Electric Power Equipment and Technology (EP Shanghai)
Dec 3-5, 2026
Shanghai, China
<https://www.epchinashow.com/EP/idx/eng>



Shanghai International Energy Storage Technology Application Expo 2026 (ES Shanghai); Hydrogen Energy Expo 2026
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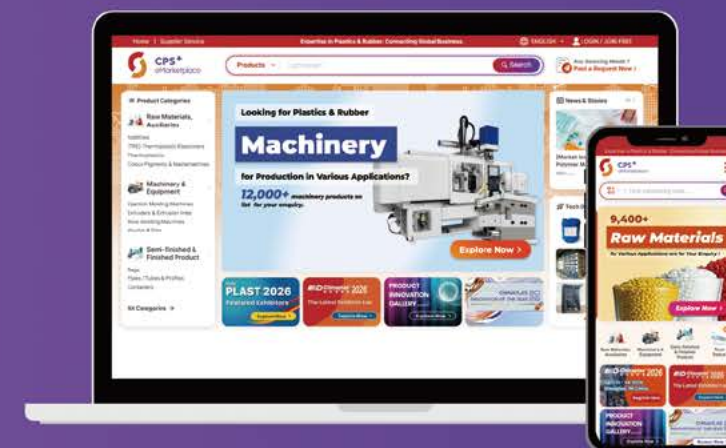


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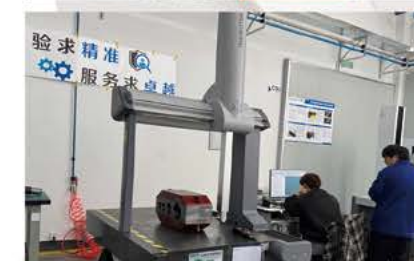
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