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VOL XLII

No. 12

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December, 2025



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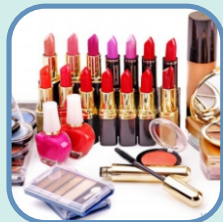
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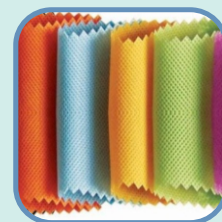
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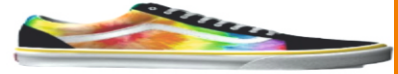
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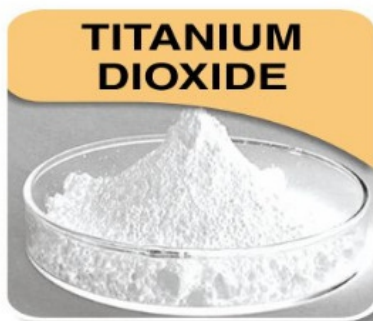
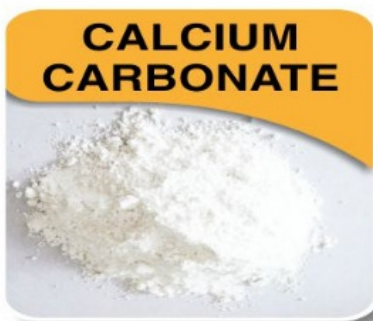
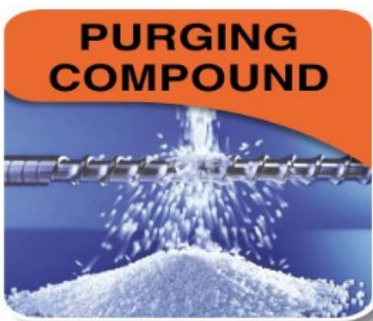
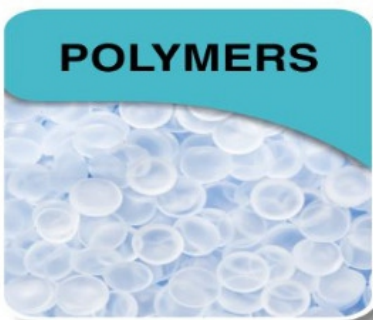
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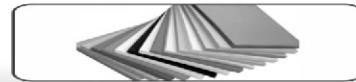
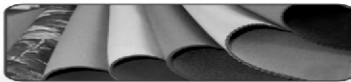
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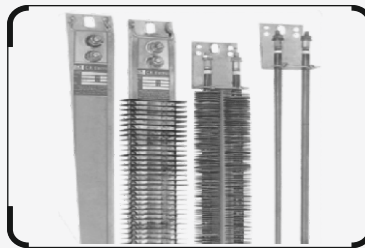
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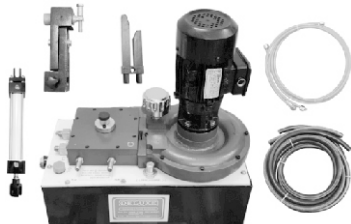
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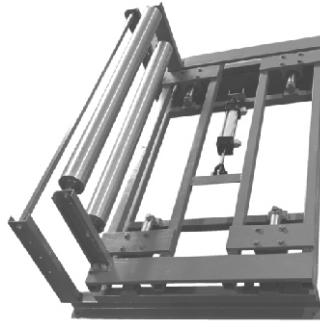
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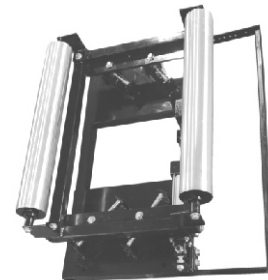
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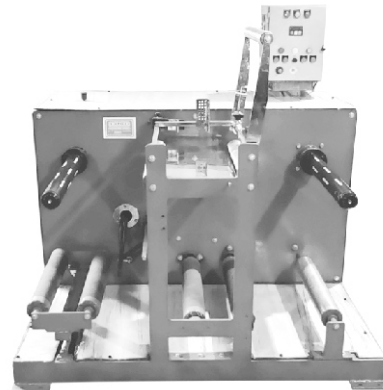
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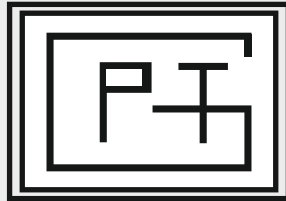
  
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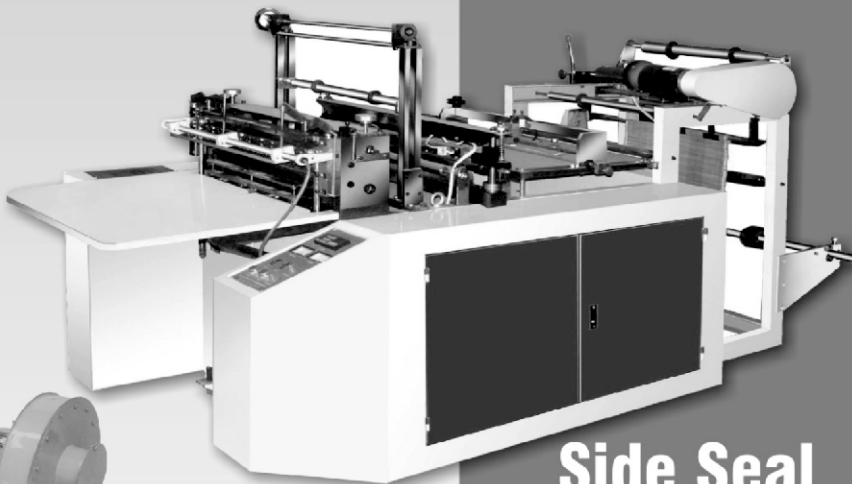
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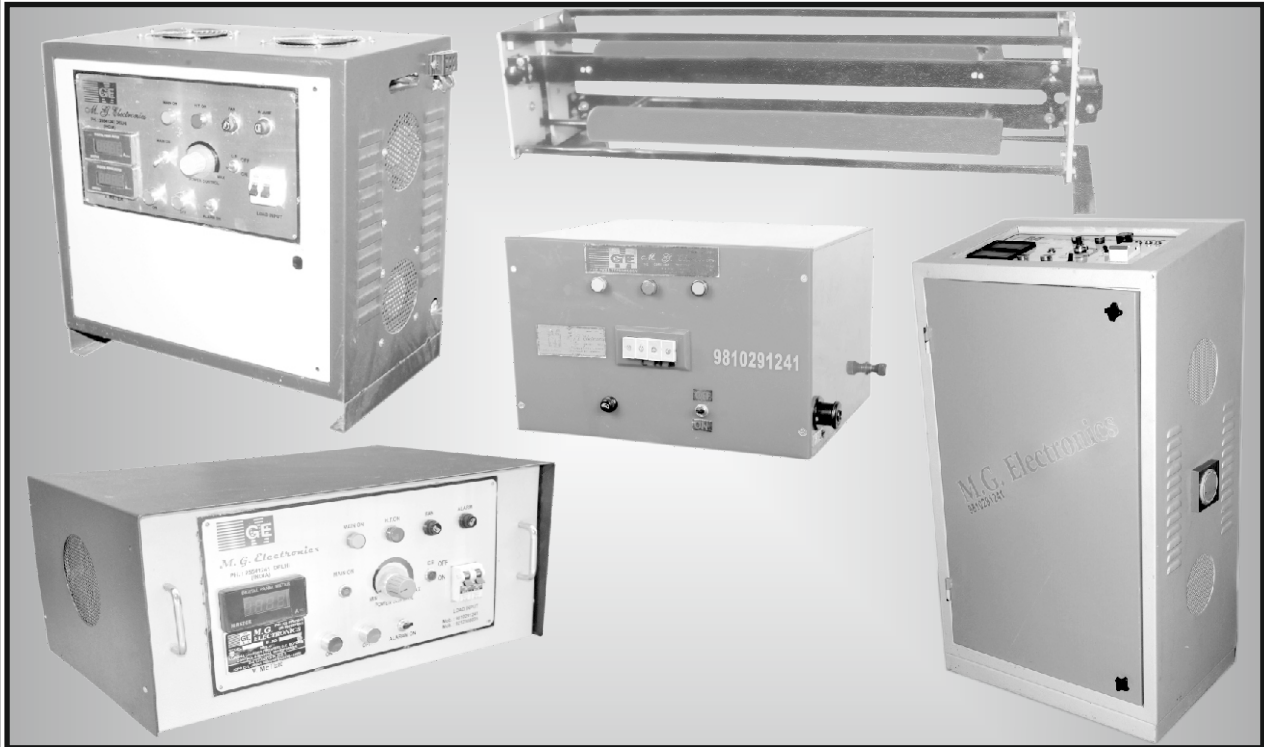
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## Manufacture quality products

Our Hon'ble Prime Minister has already given us broadly two directions which apply to all the industries in India, i.e. 'Make in India' and 'Make in India for the world'. It could not be better expressed, the two challenges that our nation faces at present. The per centage of manufacturing viz-a-viz services and trading has to increase, secondly our exports need a quantum jump. After the current inordinate duty hikes by USA it becomes all the more important.

Let us narrow down our focus to plastics. They are merely 12% of our exports. We are a developing nation and have a wonderful pool of technical expertise. In this scenario our exports could increase to both the developed nations, because our cost of production is comparatively low, and to developing nations because we are technically better. If a concerted effort is made then this is an achievable target.

Broadly speaking, we have many plastic processing machine manufacturers who make world class machines and export a sizeable per centage. Moreover, the government authorities are open to the import of high-end, cutting-edge machines, if they are required by the industry. This brings them at par with the more developed nations.

Most of the plastic raw materials are made in India and even if imported, are available. Man power, as we have mentioned, is available in plenty that is to say that we have all the ingredients available for increasing exports.

Commodity plastic is one segment that we should focus on, items like small and big plastic containers, tiffin/lunch boxes, daily use plastic items are required everywhere, throughout the world. With slight technical innovation we could find a niche market. We are aware that in this, we have to face stiff competition from China.

We have to focus on quality and timely delivery. Substantial amount has also to be spent on research and development of new products. Some centres of excellence have also to be nurtured by the authorities. Search for manufacturers who excel in their field should be started immediately. Government organizations like CIPET and the IITs have to be actively involved in this.

All the above steps will go a long way in not only improving the quality of our plastic products but also increase our export substantially. Our wish is that any plastic product bought off the shelf in India should be exportable.

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**Important points discussed during the monthly meeting of the Executive Committee held on 10<sup>th</sup> November, 2025**

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**1. Approval of the Minutes from the Previous Executive Committee Meeting held on 13<sup>th</sup> October, 2025**

The minutes of the meeting held on 13<sup>th</sup> October, 2025 were reviewed and confirmed.

**2. Approval of expenditure for October, 2025**

The expenditure statement for **October 2025** was reviewed and duly approved.

**3. To consider and approve Income & Expenditure accounts and Balance Sheet for the year 2024-25.**

The Hony. General Secretary informed that certain entries required corrections. Accordingly, the Balance Sheet has been sent to the Chartered Accountant for necessary modifications and will be placed again in the next meeting for approval.

**2. Discussion on Industry- related matters.**

The Committee held a general discussion on current industry developments and concerns.

**3. Holding of Annual General Body Meeting-cum-Election-cum-Industry Meet (2025-27) on 18<sup>th</sup> December, 2025 at the Hotel City Park-Pitampura.**

- Appointment of the Election Officer:

Deferred to the next meeting.

- Formation of organizing/reception committee for the AGM and allocation of duties to concerned members:

It was decided that **all Executive Committee Members** will collectively function as the Organizing/ Reception Committee for the AGM.

- Relaxation in Attendance:

Shri Rakesh Sachdeva, Sr. Vice President, suggested granting attendance relaxation to members contributing financially, in addition to the two leaves permitted under the Rules.

Shri Amrinder Singh raised an objection, questioning the basis of linking attendance with contribution.

- Sponsorship proposals:

It was decided to retain the sponsorship slab as the previous year:

**Platinum** – ₹ 51,000 + GST

**Diamond** – ₹ 31,000 + GST

**Gold** – ₹ 21,000 + GST

**Silver** – ₹ 11,000 + GST

**4. Felicitations to the sponsors**

The Hony. General Secretary, Shri Brijesh Bhutani, proposed replacing sponsor felicitations with an **Award Ceremony**, with awards to be given across various sectors of the plastics industry (e.g., masterbatch, injection moulding, machinery, etc.).

Shri Arun Rastogi, Vice President, suggested naming them “**Youth Icon Awards**,” which was appreciated by the Committee.

Shri Bhutani further informed that the **Office Bearers will contribute ₹ 21,000 + GST each**, and the **Executive Committee Members ₹ 11,000 + GST each**, as done earlier.

**The Meeting ended with a vote of thanks to the Chair.**

## PPRC 2025: Tracking EPR's progress

*In back-to-back sessions at the annual event in Chicago, speakers discussed program implementation, harmonization across states and the key role of responsible end markets.*

-By Chris Voloschuk, Associate Editor

Seven states have passed extended producer responsibility (EPR) legislation in recent years, and Oregon became the first to **launch its program** in July.

With Oregon's implementation serving as a primary example, a panel of packaging and recycling industry stakeholders came together at the annual Paper and Plastics Recycling Conference (**PPRC**) in Chicago on Oct. 16 to discuss EPR developments and the opportunities that lie ahead.

The session, EPR in Action: State Updates, was moderated by Shannon Crawford Gay, director of recycling and environmental policy at Houston-based WM.

### Seeking harmonization

With each state—California, Colorado, Maine, Maryland, Minnesota, Oregon and Washington—passing legislation that will result in differing programs, the Circular Action Alliance (**CAA**), which has been selected as the producer responsibility organization (PRO) in four of the states, has sought ways to harmonize rules where possible.

Jeff Fielkow, CEO of CAA, said harmonization is “one of the topics we constantly pound our fist on,” and CAA is working to form harmonization principles throughout the industry.

“When a state passes an EPR law, producers have three obligations—register, report their data and pay,” Fielkow said. “We harmonize what that experience is from state to state. We've established one place to go to ask a question with our streamlined portal.”

Using Oregon as an example, Fielkow said CAA's **producer portal** has provided stakeholders a streamlined experience that will allow them to effectively participate in the program. Along with Oregon, CAA is serving as the PRO in California, Colorado and Minnesota, and also has a presence on Maryland's advisory council.

“Now that we're live in Oregon, we have a harmonized experience for suppliers,” he said. “All the suppliers and MRF [material recovery facility] operators needed to report in their data so we could pay them. It takes a little time to get that right, but now we have the model, so we can move that to the next state.

“We're harmonizing the timeline. When a state passes a law, how many years should go by before it goes into effect? We're harmonizing who should run the program, harmonizing the definition of what is a producer. Getting all those mechanisms right is the key.”

Fielkow added that ecomodulation, an element of an EPR program that rewards producer behaviors that make packaging easier and more cost effective to recycle and also penalizes those that make recycling more difficult, also requires a level of harmonization across states.

“If you don't have harmonization of those, you have producers putting their hands in the air,” he said.

### The importance of REMs

Where recovered materials ultimately end up presents an important challenge for each EPR state, and identifying responsible end markets (REMs) for commodities is a priority stakeholders want addressed sooner than later, according to Scott Byrne, vice president of global sustainability at Hartsville, South Carolina-based packaging producer **Sonoco**.

Byrne serves on Oregon's **Recycling System Advisory Council** and described REMs as “the most contentious issue that I've been a part of in that group. ... Within that group there's a lot of tension, but it's good tension.” He said there have been differing opinions amongst the board when it comes to topics like ecomodulation, “but

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there's a sense of, 'Let's kind of get the program rolling, and then we can look at maybe the next program plan amendment.'

However, he said, "If you get [REMs] wrong, it could almost be existential to the program. If the end markets haven't signed up and MRFs can't move that material, the whole system becomes very fragile. Some of the stakeholders are saying responsible end markets are almost a cornerstone of the program, [while others say] we need to make sure the program works first."

Crawford Gay noted that sorting out domestic end markets for material could be helpful given market volatility for different commodities, and posed the question of what is being done to bolster those end markets in the U.S. to prevent a scenario in which there is too much material and not enough end markets.

Fielkow said that markets currently are "extraordinarily weak," not just in the U.S. but globally.

"The best feature of a well-structured EPR program is to help the industry sort out those markets," he said. "The high volatility is always what's created problems for long-term investments, and EPR can help smooth that out and actually promote the industry."

"If markets go weak, [EPR] creates a way for the industry—the haulers and the MRF operators—to remain profitable. It helps to manage the volume of material and the quality of that material."

If stakeholders can get this right, Fielkow says, "each of the ecosystems for recycling can improve. We can make sure we're presenting high-quality materials for sale. There are huge needs in terms of what must be collected for recycling. It's not a wish; it's in the targets. And we know those [end] markets aren't there yet. But we're making sure we get there in the right order."

### **Limiting confusion**

Lynn Dyer, executive director of Springfield, Massachusetts-based American Institute for Packaging and the Environment (**AMERIPEN**), said EPR laws should be designed to include existing collection programs for materials already in the marketplace while also preparing for future materials.

"How do we not disrupt what's working today and prepare for tomorrow," Dyer said. "People are going to be fighting to get more materials [included in the legislation]. If you're a producer and start to see those fees assessed on your products, how's that going to affect materials entering the marketplace? We have to make sure any legislation that comes up is prepared for that."

Dyer suggested states conduct a needs assessment early in the legislative process and avoid throwing EPR "and the kitchen sink" into the law. "Let's build EPR laws that move things along. There's already a huge burden on companies learning how to do this. If you have states coming out with these very different rules, you create all this confusion in the industry."

Fielkow pointed out that CAA works with different industry organizations, including AMERIPEN, as well as MRF operators, haulers and other stakeholders to develop covered materials lists while also planning for future capital expenditures that will help improve collection outcomes.

"Our role is we're a nonprofit and we only want to see great outcomes," he said. "We want the industry to be healthier than it is today. There's a role for all of the trade associations, the TRPs [The Recycling Partnership], the Closed Loop Partners'. We want to convene all these groups and try to coordinate a plan so we're using resources efficiently and getting the most impact."

"If we don't have the answers, the group will come up with the answers. It's about getting higher impact for the products we know are there where maybe resources are limited in a particular area, then getting capital in to help solve these problems. That's what we do."

In Oregon, in particular, Fielkow said producers have "showed up in a big way."

"I'm really impressed and proud of the producer community," he said. "They've registered and paid, registered and reported. ... I'm really proud of the haulers and collectors; they've been incredibly collaborative in the states we're working in. We've seen better cooperation than I thought I'd see on my most optimistic day."

Fielkow said EPR programs will require a degree of patience if they are to be successful in the long run.

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“What does a program look like? I’d say, I have no idea. Give it time. Give us time to get the program up and running and some time under our belts to see what it looks like. Allow the time to let these programs incubate, then we can start to build the next wave.”

### **An alternative view**

In the second session, EPR at a Crossroads: Protecting Recycling, Addressing Batteries, National Waste & Recycling Association (NWRA) President and CEO Michael E. Hoffman said the organization does not support EPR for packaging, though it does support collection programs for items such as batteries.

“We do want to recycle,” he said. “Our concern is that [EPR] is an extraordinarily expensive way to try and improve recovery rates.”

Hoffman cited data from a study NWRA conducted in 2021 with the aid of **Eunomia Research & Consulting** that looked at four different outcomes, though “none were positive.” The outcomes researched included:

- Does the EPR program lead to an increase in recycling rates? Hoffman said the study showed that it is likely but not always certain.
- Does it lead to an increase in recycled content usage? The study claimed there was no evidence to support design-for-recycling improving usage.
- Does it lead to an increase in design-for-recycling practices? The study said there was no evidence.
- Does it lead to an increase in the market value of collected packaging material? The study concluded there was no evidence supporting better secondary market value of recycled packaging.

“If communities don’t have access because they don’t have the markets, there’s ways to work around this,” he said. “With rural recycling programs, we found some that are successful, with exceptional recovery rates at a fraction of what EPR would cost today.

“CAA, AMERIPEN [and others] are working at this in a sensible way, but his process is expensive. This is a grocery tax. Anyone that thinks producers aren’t going to increase prices to make this work is delusional. They’re going to pass these costs on. There are better ways to do this economically.”

Hoffman noted that some groups want producers to pay to support EPR programs, but a smarter economic model exists. “Cost matters,” he said, adding that EPR paired with bottle bills also do not work.

Per the Eunomia study, an alternative approach to EPR would include nationally coordinated recycling standards, targeted infrastructure investment, a focus on efficiency and market incentives and proven material recovery system upgrades.

Hoffman encouraged entities forming EPR programs in different states to include MRF operators in their discussions, since those facilities will be tasked with processing higher volumes of material.

“[When you have] conversations about EPR and putting more volume through MRFs, you have to talk to us,” Hoffman said. “What can go through these plants and still allow us to run them at high efficiency to maintain economics.”

*(Source: Recycling Today; 29<sup>th</sup> October, 2025)*

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## Recycling Falters as Companies Retreat from Plastic-Waste Pledges

*An article from Chemical & Engineering News reveals how weak markets for recycled plastic are undermining both corporate pledges and recycler viability.*

*By: Anne Marie Mohan*

A recent article from *Chemical & Engineering News*, titled "Plastics recycling is in trouble," presents a sobering analysis of the state of plastics recycling in the U.S. The article shows that many of the hopeful promises by brands surrounding plastic-waste recycling are now under strain and outlines why the problem is deeper than simple public sorting of bottles. It describes a system built on optimism but facing the hard limits of economics, infrastructure, and market demand.

As *C&EN* reports, nearly a decade ago, many of the world's largest CPGs set ambitious goals to increase their use of recycled plastic and reduce reliance on virgin resin. Brands like Coca-Cola, PepsiCo, and Danone pledged to incorporate more recycled content into packaging, with several committing to targets as high as 50% by 2030. The article suggests that these promises reflected a period when many companies positioned recycling as a practical, publicly appealing way to address plastic waste without significantly reducing production. Now, as *C&EN* reports, those same commitments are proving difficult to meet, revealing how heavily the industry leaned on recycling as a fallback rather than a fundamental fix.

As the article makes clear, that strategy is unraveling. While companies are using more recycled plastic than they did a decade ago, many are falling short of their own deadlines. Some have extended timelines or scaled back targets, pointing to the high cost of recycled material and limited availability. Virgin plastic, made from abundant and inexpensive fossil feedstocks, remains far cheaper, creating a financial gap that has proven difficult to close.

The publication quotes Jan Dell, founder of the Last Beach Cleanup, who recalls that 2025 "was supposed to be the year that plastic recycling would show that it could work." Instead, the year has arrived with disappointing results and an industry confronting its limitations.

### Recyclers under mounting pressure

According to the article, the challenges extend well beyond corporate boardrooms. *C&EN* describes a recycling sector under mounting financial and operational pressure. MRFs and recyclers/reprocessors are facing shrinking margins and rising competition from virgin resin. Even in states with strong environmental policies, such as California, recyclers are struggling to stay open.

The article notes that several U.S. recycling facilities have closed in recent years, including plants in North Carolina and California. One company—r.Planet Earth—representing about 4% of the nation's PET recycling capacity, has also gone out of business. These closures have ripple effects throughout the supply chain. When recyclers shut down, the flow of recycled resin tightens, making it even harder for brands to source material and meet their sustainability commitments.

The economic pressures are compounded by technical barriers. The article highlights that not all plastics can be easily recycled. Many products are made from mixed materials or contaminated with residues that reduce their value and recyclability. Sorting and cleaning these materials adds cost and complexity, further weakening the industry's competitiveness against new plastics.

### The feedback loop of decline

As *C&EN* explains, the recycling system is caught in a damaging feedback loop. Weak demand for recycled resin discourages investment in new recycling capacity. The lack of capacity, in turn, makes it harder for companies to meet their recycled-content goals, which depresses demand even further. Over time, this cycle has created an unstable market that struggles to attract long-term funding.

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The article traces part of the current situation to China's 2018 decision to ban imports of plastic waste. Before that ban, much of the plastic collected in the U.S. was shipped overseas for processing. The sudden loss of that outlet forced the domestic industry to expand quickly, often without the economic foundation to sustain growth. Since then, *C&EN* notes, more recyclers have shut down than have opened—a clear sign that the economics of recycling remain challenging.

### **Voluntary goals are not enough**

The article emphasizes that voluntary corporate commitments alone are unlikely to solve the problem. Without consistent demand for recycled materials, recyclers cannot operate profitably. *C&EN* reports that the U.S. recycling rate for plastics remains below 10%, a figure that has barely improved since 2018, according to data from the Environmental Protection Agency. Despite years of corporate pledges, the national system still depends on cheap virgin plastic, limited sorting capacity, and fragmented local recycling programs.

Experts interviewed in the article argue that meaningful progress will require stronger policy measures. They point to examples from Europe, where governments have implemented recycled-content mandates, deposit-return programs, and extended producer responsibility (EPR) systems that hold manufacturers accountable for the packaging they create. Similar efforts are beginning to take shape in the U.S., though far more slowly.

*C&EN* reports that several U.S. states, including California, Oregon, Maine, and Colorado, have enacted or are EPR laws aimed at improving recycling and reducing packaging waste. These laws require producers to help fund the collection, sorting, and recycling of the materials they put into the market. California's version, considered the most comprehensive, also sets targets for reducing single-use packaging and mandates that all packaging sold in the state be recyclable or compostable by 2032. Other states are developing similar frameworks, but national policy remains elusive.

According to the experts cited by *C&EN*, such policies could help stabilize markets by creating a guaranteed demand for PCR and by providing recyclers with predictable funding. Without them, they warn, the imbalance between low-cost virgin plastic and high-cost recycling will persist, and the ambitious sustainability goals set by major brands will continue to slip further out of reach.

### **A system out of sync**

In its closing analysis, *C&EN* describes a recycling system that is fragmented and fragile. Collection programs vary widely from place to place, and contamination from mixed materials still limits the quality of recovered plastic. Recyclers remain squeezed by low prices and inconsistent supply, while brands struggle to secure the recycled material needed to meet their own commitments.

Rather than repeating calls for the same solutions, the article highlights the need for coordination across the entire plastics value chain. It points out that stronger policy alone will not be enough unless product design, manufacturing, and consumer behavior also evolve to support reuse and recycling. The publication emphasizes that the challenges are interconnected—economic, technical, and structural—and that they require a comprehensive approach rather than isolated fixes.

*C&EN* concludes that the potential for a circular plastics economy still exists, but realizing it will require sustained investment, clearer accountability, and collaboration among governments, companies, and recyclers.

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## Understanding the 2025 Amendments in India's Plastic Waste Management Rules: Transparency & Traceability

By- Kinjal Kansabanik

Plastic pollution remains one of the gravest environmental challenges worldwide and India is no exception. The Government of India first introduced the Plastic Waste Management Rules in 2016 to control plastic pollution by setting recycling targets, responsibilities, and penalties for producers, importers, and brand owners. Over the years, these rules have been amended multiple times to increase their effectiveness.

The most significant update came in June 2025 when the Ministry of Environment, Forest and Climate Change (MoEFCC) notified new amendments aimed at improving transparency, traceability, and compliance mechanisms within the plastic waste management system. In this blog, every element of the 2025 amendments will be explained to provide a full understanding of what has changed and how companies must now operate to remain compliant.

**Background: Why Amend the Plastic Waste Management Rules Again?**

Since the first rules in 2016, India's plastic consumption and waste have continued to grow. The original rules focused on Extended Producer Responsibility (EPR), mandating that producers and importers take responsibility for collecting and recycling the plastic waste generated by their products. Nevertheless, challenges persisted:

- Tracking and verifying compliance was difficult.
- Importers were not sufficiently accountable for plastic packaging.
- Food packaging and technical exemptions complicated universal targets.
- Data collection and transparency were inadequate.

The 2025 amendments seek to close these gaps by institutionalising complete traceability through a centralised online portal and by ramping up recycled content and reuse targets for all stakeholders, including importers and brand owners.

### What Are the Key 2025 Amendments? A Deep Dive

#### 1. Recycled Plastic Content Targets

The amendments introduce mandatory, category-wise year-on-year targets for recycled plastic in packaging. This measure is the backbone of promoting circularity in the plastic economy.

#### Who Does This Affect?

- Producers of plastic packaging.
- Importers bringing plastic packaging into India.
- Brand owners use plastic packaging for their products.

#### Categories of Packaging

Plastics are divided into three categories for ease of regulation:

- **Category I:** Rigid packaging, like bottles and containers.
- **Category II:** Flexible packaging (films and bags).
- **Category III:** Other packaging types not covered in I or II.

### Year-wise Recycled Content Obligations

Year	Category I	Category II	Category III
2025-26	30%	10%	5%
2026-27	40%	10%	5%
2027-28	50%	20%	10%
2028-29+	60%	20%	10%

These percentages represent the minimum recycled plastic required in packaging material annually.

#### Exemptions Allowed

- If regulatory laws prohibit the use of recycled material (statutory reasons).
- If use of recycled material compromises product integrity (technical reasons).
- Exemptions are granted case-by-case by the CPCB on sufficient proof.

Companies must clearly justify exemption needs, ensuring this is not abused to limit progress toward circular plastic use.

#### Special Provisions for Food Packaging

Food contact materials are subject to strict safety rules. Hence, the 2025 amendments allow companies to carry forward shortfalls from the recycled content targets for up to three years (i.e., they can make up deficits accumulated from 2025-26 to 2028-29).

#### 2. Inclusion of Importers in Responsibilities

Importers now have the same obligations as producers under plastic waste management rules.

- They must meet recycled content targets similar to producers for all packaging categories.
- The recycled content in imported plastic itself does not count for obligations. Companies must effectively “buy” recycled plastic credits within India’s compliance system.
- Exemptions for statutory or technical reasons and carry-forward rules for food packaging also apply equally.

#### 3. Brand Owner Obligations: Reuse and Recycled Content

Brand owners have dual responsibilities under the amendments:

##### A. Reuse of Rigid Plastic Packaging

Brand owners using Category I (rigid) plastics must meet minimum reuse targets according to packaging size and product type.

Packaging Size & Type	2025-26	2026-27	2027-28	2028-29+
0.9 to <4.9 litre/kg rigid packaging	10%	15%	20%	25%
≥4.9 litre/kg rigid packaging (drinking water)	70%	75%	80%	85%
≥4.9 litre/kg rigid packaging (other than water)	10%	10%	15%	15%

Reuse target percentages represent the annual minimum amount of packaging material that must be reused rather than disposed of.

##### B. Recycled Plastic Content in Packaging

- Brand owners must also comply with year-wise recycled content targets for all categories (same as producers and importers).
- Statutory/technical exemptions and carry-forward from 2025-26 shortfalls apply here as well.

#### 4. Creation of a Centralised Online Portal

To improve transparency and traceability, all producers, importers, and brand owners must register and report on a digital portal managed by the CPCB.

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Portal Functions:

- Record weight of virgin, recycled, and reused plastic used.
- Track purchase and sale of EPR (Extended Producer Responsibility) certificates.
- Provide real-time data access to regulators for audits.
- Maintain a clear online record that enhances compliance monitoring and enforcement.

The portal brings a much-needed digital backbone to the Plastic Waste Management framework.

#### 5. EPR Certificates and Credit Trading

The amendments formalise a system of EPR certificates:

- Entities exceeding obligations generate credits.
- Those unable to fully comply can acquire certificates from others.
- All transactions are recorded on the portal for full auditability.

This system encourages shared responsibility across the industry and prevents evasion of duties.

#### 6. Reporting and Compliance

Entities must submit annual reports through the portal covering:

- Plastic packaging quantities produced, imported, or brought to market.
- Proportion of recycled content used.
- Volume of packaging reused (for brand owners).
- Certificates bought/sold to meet targets.
- Exemption approvals obtained.

Accurate and timely reporting is mandatory to comply with the plastic waste management rules.

#### 7. Application Process for Exemptions

To apply for statutory or technical exemption, entities must:

- Submit formal requests to the CPCB via the portal.
- Provide supporting evidence like regulatory barriers or technical limitations.
- Await approval before exempted targets are adjusted.

#### 8. Legal Framework and Public Consultation

- This notification is part of the Plastic Waste Management (Second Amendment) Rules, 2025.
- It comes into effect on publication in the Gazette but allows 60 days for public objections or suggestions.
- Comments can be sent to the Ministry of Environment, Forest and Climate Change.

Public participation improves policy acceptance and effectiveness.

How These Amendments Impact Businesses

Increased Accountability

Companies are now more accountable for their packaging than ever before. The central portal creates a transparent platform which regulators and the public can scrutinise.

Need for Robust Internal Tracking

Businesses must invest in systems to segregate and measure virgin vs recycled material, track reused plastics, and manage certificate trading.

Planning Ahead for Targets

Given fixed year-wise targets, companies must prepare their supply chains to source recycled content and create reuse programmes.

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## Cost Implications

- Increased recycled content may affect packaging costs.
- Participation in certificate trading creates a new financial market risk and opportunity.
- Non-compliance penalties will motivate businesses to meet or exceed targets.

## Transparency and Traceability: The Core Benefits

These amendments bring India's plastic waste management up to date with global standards by:

- Creating clear measurable targets.
- Ensuring full disclosure of compliance data.
- Establishing a marketplace to smooth out hard-to-meet targets.
- Making it difficult to hide or falsify information.

This will ultimately improve environmental outcomes and public trust.

## Special Case: Food Packaging and Safety

Recognising the concerns around food-contact packaging, the rules balance safety with sustainability by permitting carry-forward exceptions for three years and strictly regulating exemptions.

## Timeline Summary

Year	Major Requirements
2025-26	Start of recycled content and reuse targets
2026-27	Increase recycled content for Categories I and III
2027-28	Further increases; start 20% Category II recycled content
2028-29+	Full targets realized (60% recycled content Category I, etc.)

## Conclusion

India's 2025 amendments to the plastic waste management rules represent a thorough, state-of-the-art approach to handling plastic pollution. From detailed recycled content targets to the digital compliance portal, these changes emphasise transparency, accountability, and long-term sustainability.

Businesses, importers, and brand owners now face clear responsibilities, complete with annual reporting and the ability to trade compliance credits fairly. With strong enforcement and public oversight, India is poised to lead on plastics circularity in the years ahead.

## Frequently Asked Questions (FAQs) on 2025 Plastic Waste Management Rules Amendments

Q1. What are the main goals of the 2025 amendments to the Plastic Waste Management Rules?

The amendments aim to increase the use of recycled plastics in packaging, improve reuse of rigid plastics, bring importers under the same rules as producers, and introduce a central online portal for transparent tracking of compliance. These changes enhance accountability, traceability, and overall plastic waste reduction in India.

Q2. Who is affected by the new rules?

Producers, importers, and brand owners of plastic packaging are all responsible under the amended rules. They must meet yearly recycled plastic content targets, reuse rigid plastic packaging where applicable, and report details through the central portal.

Q3. What are the recycled plastic content targets?

Targets are set category-wise and increase each year from 2025-26 to 2028-29 onward. For example:

- Category I packaging must include 30% recycled plastic in 2025-26, rising to 60% from 2028-29.
- Categories II and III have lower but rising targets.

Q4. Are there any exemptions from these targets?

Yes, exemptions are allowed for statutory reasons (e.g., other laws banning recycled plastic use) and technical reasons (where recycled plastic would spoil the product). Every exemption request must be approved by the Central Pollution Control Board.

Q5. How are importers impacted?

Importers must meet the same recycled content targets as producers, but recycled content in imported packaging does not count towards obligations. They can buy certificates from businesses that exceed their targets to meet obligations.

Q6. What are brand owners required to do?

Brand owners must meet minimum reuse targets for rigid plastic packaging annually and also comply with recycled content targets. They also have access to exemptions and carry-forward provisions as producers and importers do.

Q7. What is the central portal and why is it important?

The Central Pollution Control Board manages an online portal where producers, importers, and brand owners must register and submit annual recycling and reuse data. The portal provides transparency and traceability, enabling the government to verify compliance and track certificate trading.

Q8. What are EPR certificates?

Extended Producer Responsibility (EPR) certificates are credits earned by businesses exceeding recycled material or reuse targets. These certificates can be sold to others who have unmet targets, allowing flexibility while ensuring overall compliance.

Q9. How should companies prepare for these new rules?

Businesses must set up tracking systems for recycled and virgin plastic, reuse packaging, register on the portal, comply with targets, and maintain clear records. Planning ahead for certificate trading and exemption applications is also vital.

Q10. What penalties exist for non-compliance?

Failure to follow the amended plastic waste management rules can lead to penalties under the Environment (Protection) Act, 1986, including fines and legal proceedings.

*(Source: Recircle; 29<sup>th</sup> October, 2025)*



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## News Concerning Plastics

### India Drops 14 BIS Norms for Plastics, Impact on Industry

The Indian government has withdrawn 14 Bureau of Indian Standards (BIS) Quality Control Orders (QCOs) that covered many petrochemical feedstocks, polymers, and synthetic fibres. The move removes the need for mandatory BIS certification for items such as polyester fibre and yarn, polypropylene, polyethylene, PVC, ABS, and several chemicals used as raw materials. The government says this will ease imports, cut compliance costs, and help manufacturers, but how big is the change, and what should investors watch next?

#### Which Qcos Were Scrapped, And When Did This Take Effect?

The Ministry of Chemicals and Fertilisers published a gazette notification rescinding 14 QCOs with immediate effect. The list includes key intermediates and polymers such as Terephthalic Acid (PTA), Ethylene Glycol (EG), Polyester Yarns and Fibres, and major industrial plastics such as Polypropylene (PP), Polyethylene (PE), Polyvinyl Chloride (PVC), Acrylonitrile Butadiene Styrene (ABS), and Polycarbonate (PC), among others. The government's chemicals portal and several media reports confirm the withdrawal and say it is effective from the date of the Gazette notification.

This step follows earlier rollbacks of other QCOs in October, when a small number of chemicals had already been delisted from mandatory BIS coverage. The government says the revocations aim to align India with global practice, where many countries use voluntary standards or buyer-led checks rather than mandatory certification for such intermediate goods.

#### What Does This Mean For Manufacturers And Importers?

At a basic level, removing mandatory BIS certification lowers a compliance hurdle. Importers no longer need to obtain a BIS licence or undergo mandatory testing for these intermediate chemicals and polymers. That should speed customs clearances, reduce paperwork, and lower direct costs tied to certification. Trade bodies and industry groups have welcomed the move as a relief for plastics, chemical, and textile supply chains that argued QCOs were raising input costs and hurting competitiveness.

Lower compliance costs can help improve margins for downstream users, textile mills, plastic processors, film makers, and chemical manufacturers, and could reduce the landed cost of imports. For exporters, cheaper input costs can improve price competitiveness in global markets. However, price gains for end firms will depend on how much of the savings are passed through and whether global prices move independently.

On the other hand, removing mandatory checks transfers quality assurance to buyers, importers, and downstream firms. That can speed trade but also raises the risk that low-quality or counterfeit inputs enter the supply chain unless private buyers insist on third-party testing or stricter vendor qualification. Some industry voices warned that buyers, especially smaller firms, must now build stronger procurement and quality-control systems.

#### How Significant Is This, And What Should Investors Watch Next?

This policy change is important because these inputs sit at the start of many value chains. A few practical points for investors:

- **Impact on input costs:** Track raw-material import prices and local producer margins in the next two quarters. If manufacturers report lower certification and compliance costs, margins could improve, especially for mid-sized and export-oriented units.
- **Trade volumes and lead times:** Watch customs clearance times and import volumes for PTA, EG, and polymers. Faster clearances or a pick-up in imports would be an early sign that the measure is easing supply constraints.
- **Quality incidents or recalls:** Because checks are now buyer-led, any increase in product failures, factory rejections, or recalls would be a warning that voluntary compliance needs strengthening. Keep an eye on trade-body alerts or firm disclosures.

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- **Policy follow-through:** The government has previously signalled a broader review of QCOs (NITI Aayog recommendations were cited). Investors should watch whether more QCOs are suspended, revoked, or reworked, which will affect the medium-term sector structure.

### Conclusion

Scrapping 14 BIS QCOs for plastics, synthetic fibres, and key chemical feedstocks removes a clear regulatory step and should make imports faster and cheaper for many manufacturers. The move can help competitiveness and reduce costs, but it also shifts responsibility for quality to buyers and supply chains. Will lower compliance friction translate into meaningful margin improvement and higher exports, or will firms face increased quality risks unless they strengthen buyer-side controls?

*(Source: Kotak Security Team; 14 Nov., 2025)*

### **Adoption of circular manufacturing practices, recycling technologies must for competitive future of industry: Petrochemicals Secretary Verma**

DCPC, FICCI and CIPET join hands for sustainable plastic waste management and industry collaboration  
The Department of Chemicals and Petrochemicals (DCPC), in collaboration with the Federation of Indian Chambers of Commerce and Industry (FICCI) and the Central Institute of Petrochemicals Engineering & Technology (CIPET), organized a Summit on Recycling, Plastic Waste Management and Circular Economy in the Petrochemicals and Plastics Sector in Dehradun on 14<sup>th</sup> November, 2025.

The Summit aimed to promote dialogue and collaboration among stakeholders to develop a sustainable and circular roadmap for India's petrochemical and plastics industries. The initiative aligns with the national goals of environmental protection and responsible development.

Delivering the keynote address, Nivedita Shukla Verma, Secretary, Department of Chemicals and Petrochemicals, highlighted major government initiatives including the Carbon Capture, Utilisation and Storage (CCUS) framework, the National Mission for Green India, the BioE3 Policy, strengthened Extended Producer Responsibility (EPR) norms, the Plastic Waste Management Rules, and NITI Aayog's Waste to Wealth programme.

She underscored the pivotal role of institutions such as CIPET and the Indian Institute of Petroleum (IIP) in advancing cleaner technologies and fostering industry-academia linkages for a sustainable petrochemical ecosystem. Ms. Verma emphasized the need for faster adoption of circular manufacturing practices, innovation-led recycling technologies, and global best practices to ensure a greener and competitive future for the sector.

Addressing the Summit, Prabh Das, Chair, FICCI Petrochemicals & Plastics Committee, stressed the importance of strengthening waste collection and recycling mechanisms. Arvind Mehta, Chairman, All India Plastics Manufacturers' Association (AIPMA), called for greater public awareness to encourage responsible consumer behavior and highlighted the growing potential of plastic exports from India.

The Summit served as a platform for meaningful engagement among policymakers, industry leaders, and academia, reaffirming collective responsibility towards building a sustainable and circular economy for India's petrochemicals and plastics sector.

*(Source: ICN Bureau; 15<sup>th</sup> November, 2025)*

### **PPCB summons 14 major brands for contributing to plastic waste, seeks clear action plans**

Mohali: The Punjab Pollution Control Board (PPCB) has summoned 14 leading brands after a recent audit found that these were major contributors to hard-to-recycle plastic waste in the state. The PPCB has directed these companies to present time-bound and practical plans on how they would collect and manage the plastic packaging that consumers discard.

PPCB chairperson Reena Gupta said the companies would not be allowed to pollute Punjab and shift responsibility elsewhere. She emphasised that accountability would be enforced and that action on the ground must improve.

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“We will clean our cities and ensure every polluter takes responsibility,” she said. The action is based on the ‘Plastic Waste Brand Audit 2025’ carried out by the PPCB in six major cities — Amritsar, Bathinda, Jalandhar, Ludhiana, Mohali, and Patiala. The audit examined waste collected from various residential and market areas to identify which brands generated the most plastic waste.

Out of 6,991 kg of municipal waste studied, around 613 kg was plastic. The findings show that 88% of this plastic was non-recyclable. Further, out of 11,810 pieces of branded plastic packaging recovered, 14 brands were linked to nearly 59% of the waste that cannot be recycled.

The Pollution Control Board highlighted that some companies had been fulfilling their Extended Producer Responsibility (EPR) obligations through unverifiable certificates or by diverting waste responsibilities to other states, which did not solve Punjab’s pollution problem.

The PPCB has instructed the companies to submit clear collection models, including incentives for consumers to return used plastic packaging, partnerships with local recyclers, and verified waste-processing systems. The Pollution Control Board also stated that monitoring and enforcement measures would be strengthened.

The PPCB said it was committed to making Punjab cleaner and ensuring industries contribute to a sustainable, circular waste management system.

(Source: *The Times of India*, Nov 11, 2025)

### **Indian campaign seeks plastic recycling entrepreneurs**

*An Indian government minister and a trade group are backing an effort to identify and help fund entrepreneurs in the nation’s plastics recycling sector.*

The New Delhi-based PlastIndia Foundation and a national government minister in India have launched the Bharat Next Challenge, calling the initiative India’s biggest plastics innovation drive.

Announced this week, the initiative’s backers include the IIM Calcutta Innovation Park (IIMCIP) in Kolkata, India, the PlastIndia Foundation and Indian Commerce & Industry Minister Piyush Goyal.

The initiative will entail a nationwide search for “Born in India” breakthrough ideas in sustainability and circular plastics.

“Through our partnership with IIMCIP, the National Innovation Challenge will identify high-potential startups across plastics, materials, recycling, sustainability and circular economy,” PlastIndia Foundation President Ravish Kamath says. “Winning startups will benefit from exclusive mentorship from IIM Calcutta, strengthening their ability to scale and commercialize transformational ideas.”

Officially titled Bharat Next Challenge: PlastIndia Foundation Startup Search 2026, the program organizers are seeking to discover and promote ideas that reimagine plastics for a greener, more circular future. The initiative will be highlighted at the PlastIndia 2026 event in February in New Delhi, which the foundation calls one of the largest international plastics exhibitions in the world.

“The government is committed to strengthening India’s deep-tech ecosystem, enhancing ease of doing business, reducing compliance burden and fostering entrepreneurship,” Goyal says. “I hope this initiative will enable the plastics industry to take a decisive leap towards 100 percent reuse and recycling, aligned with India’s sustainability goals and rising global demand for circular products.”

Its organizers say the competition welcomes innovation across the plastics value chain, including life-saving medical devices, next-generation materials, green chemistry, recycling tech, sustainable packaging, manufacturing breakthroughs and policy innovations.

Startup companies selected to be part of the program will receive more than \$2,200 and a complimentary display stall at PlastIndia 2026, where they will have access to thousands of visitors and some 2,000 fellow exhibitors from around the world.

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“This challenge aims to accelerate innovation and foster meaningful industry and startup collaboration,” says Alok Tibrewala, chair of the national executive council of PlastIndia 2026. “Our goal is to give young entrepreneurs the visibility, access and credibility needed to reimagine India’s plastics ecosystem,”

The PlastIndia Foundation says the challenge is open to all Indians above the age of 16. Applicants must submit a 1,000-word proposal and a two-minute video describing their idea and its potential impact. A selected panel will evaluate submissions, shortlist the top 50 ideas then select the 10 winners who will make a presentation at PlastIndia 2026.

“We believe the future of India’s growth will be defined by breakthrough ideas that integrate sustainability with world-class innovation,” sIIMCIP Chair Ajay Jain says. “Through the Bharat Next Challenge, we aim to empower startups with the mentorship, platforms and partnerships needed to convert bold ideas into impact at scale, strengthening India’s leadership in circular and sustainable technologies and contributing meaningfully to the nation’s journey towards Viksit Bharat 2047.

“India’s plastics industry is undergoing a pivotal phase of modernization, and fresh thinking from startups is essential to accelerating this transition. This initiative reflects a forward-looking vision from the PlastIndia Foundation, and we are privileged to partner with them in nurturing the next generation of innovators who will shape the future of this sector.”

(Source: Recycling Today; 25<sup>th</sup> November, 2025)

## कर्नाटक सरकार का बड़ा फैसला, सरकारी कार्यक्रमों में प्लास्टिक बोतलें बैन, नंदिनी डेयरी के प्रोडक्ट्स होंगे अनिवार्य

कर्नाटक सरकार ने पर्यावरण संरक्षण और स्थानीय उत्पादों को बढ़ावा देने के लिए एक बड़ा कदम उठाया है। मुख्यमंत्री सिद्धारमैया ने राज्य भर के सभी सरकारी विभागों को निर्देश दिया है कि अब किसी भी कार्यालय और सरकारी कार्यक्रमों में प्लास्टिक पानी की बोतलें इस्तेमाल नहीं की जाएंगी। उनकी जगह पर्यावरण के अनुकूल विकल्पों का उपयोग किया जाएगा।

### प्लास्टिक बोतलों पर सरकार सख्त

यह आदेश 28 अक्टूबर को जारी किया गया था, जिसे शुक्रवार को मीडिया के लिए सार्वजनिक किया गया। मुख्यमंत्री ने अपने नोट में साफ कहा कि सरकार पहले भी प्लास्टिक बोतलों के बजाय पर्यावरण के लिए अनुकूल सामग्री अपनाने के निर्देश दे चुकी है, लेकिन अब इसे सख्ती से लागू किया जाएगा।

### नंदिनी डेयरी के उत्पादों का इस्तेमाल जरूर करें

इसके साथ ही मुख्यमंत्री ने यह भी कहा कि सरकारी बैठकों और कार्यक्रमों में नंदिनी डेयरी के उत्पादों का इस्तेमाल अनिवार्य किया जाएगा। नंदिनी, कर्नाटक मिल्क फेडरेशन की ओर से संचालित सरकारी डेयरी ब्रांड है और इसे राज्य का गौरव माना जाता है। अब सचिवालय और अन्य सरकारी दफ्तरों में होने वाली बैठकों में चाय, कॉफी, दूध और अन्य डेयरी उत्पाद नंदिनी ब्रांड के ही उपयोग किए जाएंगे।

सरकार का मानना है कि इससे न सिर्फ प्लास्टिक प्रदूषण कम होगा, बल्कि राज्य के स्थानीय डेयरी उद्योग को भी मजबूती मिलेगी। सरकार ने सभी विभागों से कहा है कि वे इस आदेश का सख्ती से पालन करें और सुनिश्चित करें कि हर कार्यक्रम, सेमिनार और बैठक में ये नियम लागू हों।

(Source: Aaj Tak 1<sup>st</sup> November, 2025)

### Can the plastic recycling industry be saved?

There's no shortage of plastic to recycle

In the plastic recycling industry, the casualties keep coming.

Waste management company Biffa's Sunderland plant closed in February after opening in 2022 at a cost of £7m, while rival Viridor closed its Avonmouth plant in 2022, Skelmersdale in 2023 and confirmed this summer that its Rochester plant would close, too.

Like falling dominoes, plastic recycling plant closures have been endemic across Europe too: another big name, Veolia, will close its two German operations this year, while seven plastic recyclers closed in the Netherlands last year.

Meanwhile, companies Borealis, Dow and Neste have all dropped plans to construct new plastic recycling plants in Europe.

Industry body Plastic Recyclers Europe equates this to the loss of nearly one million tonnes of plastic recycling capacity since 2023.

"Without decisive political action, Europe will replace its recycling industry with dependency on unsustainable imports and growing volumes of waste, undermining both its economic resilience and its climate leadership," the organisation told the BBC in a statement.

And more closures are likely, warns James McLeary, managing director for Biffa's polymers division, as the industry here and in Europe faces its most challenging year yet. High energy and labour costs here are two factors, in parallel with the fact that sourcing virgin and recycled plastic from Asia is currently cheaper than buying European recycled plastic. Plastic recycling plant closures are affecting the US as well, also prompted by the low price of virgin plastic, causing the country to miss its recycled content targets, as S&P Global reports.

"There's a big global dependence building on Asian plants, and we then have the situation where (plant operators in the UK and Europe) are going to make very tough decisions. Either they run their plants at a point where they're literally not making anything, or they decide to close," explains Mr McLeary, who is based in County Durham.

A dependence on exporting plastic waste also hasn't helped. The UK exported around 600,000 tonnes of plastic waste last year, according to environmental analysts at ENDS Report - 5% more than in 2023.

Loopholes in current UK legislation mean plastic waste collectors are inadvertently incentivised to export rather than process domestically. Meanwhile, manufacturers using plastic packaging are still inclined to use cheaper virgin plastic from abroad, and stomach being taxed for it.

Ahmed Detta, CEO and founder of plastic waste recycler Enviroo, is frustrated by the flaws and contradictions that he feels are plaguing the industry and disrupting the goal of creating a circular economy that keeps materials in use for as long as possible.

"For me, a circular economy is a win-win. Every single person in that journey has to have some benefit, and that's not working," says Mr Detta, who is based in London.

"Brands aren't aligning with the circular economy. They're saying, 'why should I buy recycled material when it's cheaper for me to pay the fine for the plastics packaging tax, than actually pay for recycled materials? No one is saying, 'let's unite'."

So concerned is RECOUP, a UK-based plastic recycling independent authority, that its head of policy and infrastructure, Steve Morgan, warns: "We are almost witnessing the demise of plastic recycling as we know it, unless we have some interventions. There's no way a lot of recyclers in the UK can compete."

UK regulations have benefited foreign markets more than they have the UK, and serious reform is needed, Mr Morgan argues.

"There are an awful lot of fantastic technologies developing. But it's a scale up of those and how they can actually make money, to continue to exist and then also thrive, is the secondary thing," says Mr Morgan, who is based in Peterborough.

"The commercial viability long term is just not there at the moment. There are some really good people producing

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technologies that we couldn't even dream of 10 years ago. But I just feel we're not going to see any real change in the next two to three years without some intervention."

RECOUP is urging the UK government to introduce a single plastic recycling certification scheme aimed at reducing the export of plastic waste and making more companies more inclined to use recycled packaging.

Mr Morgan is optimistic that a UK government consultation this year will seriously consider what changes should be implemented to save the plastic recycling industry.

Packaging reforms are indeed being implemented, alongside £10bn of investment in new plastic sorting and processing facilities, according to a spokesperson from the UK Department for Environment, Food and Rural Affairs (DEFRA).

They also say the Deposit Return Scheme, launching in October 2027, will create higher quality material for recycling, as consumers will be encouraged to return drinks bottles and cans to collection points to collect the small deposit they will have paid on purchase. The government has also convened a Circular Economy Taskforce.

"Our collection and packaging reforms will support UK-based recycling, meaning we can reduce our dependency on exports of plastic waste," says the spokesperson. "The export of waste is subject to strict controls set out in UK legislation."

Over in Brussels, Virginia Janssens is the managing director at Plastics Europe, which represents plastic producers, including those with recycling operations and that use recycled materials. She's concerned that the plastic recycling industry is set to flourish outside Europe.

"Business will go where it makes sense and where it's cheapest to build. If those big production plans are built somewhere else, with huge investments of billions, they're not all of a sudden then going to decide to go back and build one in Europe," says Ms Janssens.

"It will have a huge effect on our value chain. It would set us back to 20 years ago, when we would have to incinerate or use landfill more, and that would be a real shame. Nobody wants this."

But there are some bright spots in an otherwise struggling industry.

Biffa, for example, has recently acquired bottle manufacturer Esterform, which uses recycled PET.

Meanwhile, Enviroo recently secured £58m to build a new recycling facility in the north-west of England, specialising in converting PET drink bottles into a recycled granulate that can be used in food packaging.

Due to be operational by 2026, the plant is expected to process up to 35,000 tonnes of plastic annually.

Mr Detta believes being a specialist in an industry of generalists, and going back to the fundamentals of plastic recycling, will be his key to success.

"I'm not here to tell you I've got the most innovative technology. No - I've looked at the real, hardcore problems and said, 'What is it that I need to resolve?'"

Plastic Energy, meanwhile, is successfully converting plastic waste into pyrolysis oil that can be used to make food and medical grade plastic. Headquartered in London, the company has plants in Spain, France and the Netherlands.

CEO Ian Temperton is preparing to benefit from an anticipated under supply of recycled plastic as recycled content targets kick in across Europe: by 2040, plastic drinks bottles must contain at least 65% recycled content.

"We're about developing and continuing to enhance the technology that deals with waste plastics. Having partners commit to new investments over the next couple of years is going to be a bit harder, but it's very clear the market will be very significantly under-supplied against any version of the targets," says Mr Temperton.

"So I will keep my team focused on the best technology for when that comes."

*(Source: BBC News; 24<sup>th</sup> October, 2025)*

## **Ellen MacArthur Foundation releases 2030 Plastics Agenda for Business, updates commitment figures**

The 2030 Plastics Agenda for Business includes a "practical roadmap" to tackle plastic waste and build a circular economy.

The United Kingdom-based Ellen MacArthur Foundation has released its **2030 Plastics Agenda for Business**, which calls on businesses to work together to "drive market transformation." The organization says the guide defines what's

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needed to tackle plastic waste and build a circular economy, setting out three key levers:

- collective advocacy by businesses to help shape ambitious, effective policy;
- collaborative action to share risks, costs and innovation to tackle barriers; and
- aligned individual action to “keep pushing boundaries” within businesses today to inspire policy and market change

“By acting early and collectively, leading businesses will be in a position to shape regulation, lower transition costs and speed up progress through shared advocacy and innovation,” **the foundation** says, adding that the evidence-based report highlights the progress made by a group of companies that represent one-fifth of the world’s plastic packaging market through their backing of the foundation’s Global Commitment Initiative.

The foundation reports that, collectively, signatories have avoided 14 million tons of virgin plastics, have tripled their use of recycled content and have eliminated billions of problematic packaging items.

The foundation also highlights major challenges that still exist, with 80 percent of the market “yet to step forward, and on average, lagging behind those who have.” In addition, the foundation says even the most ambitious businesses face systemic barriers they cannot overcome alone, such as scaling reuse models, tackling flexible packaging waste and building effective collection and recycling infrastructure.

The 2030 agenda calls for mainstreaming proven solutions, addressing systemic barriers and creating enabling government policy that aligns incentives with circular outcomes.

“Many business leaders ask me what comes next,” says Rob Opsomer, executive lead for plastics and finance at the foundation. “My answer is simple: don’t wait. The companies that act now can help shape effective policies and make circular solutions the new normal.

“By working together, they’ll cut transition costs and build resilience in a fast-changing world. They can make what once seemed impossible not only possible but, ultimately, inevitable.”

The Foundation also is calling on the rest of the global plastic packaging market to sign on to the global commitment, which was launched in 2018 in partnership with the **United Nations Environment Programme**.

“Nestlé will continue to contribute towards the common vision of a circular economy for packaging,” says Antonia Wanner, the company’s chief sustainability officer. “Building on years of effort to evolve our packaging, we look forward to collective action on the 2030 Plastics Agenda for Business, working with the Foundation and value chain partners. Together we aim to overcome systemic barriers by building broader systems and a policy landscape for the circular economy.”

#### Commitment update

The Ellen MacArthur Foundation has updated its Global Commitment figures with its **2025 progress report**, which includes actions taken by plastic packaging producers in 2024 to reduce virgin plastic usage, increase postconsumer recycled (PCR) content usage and design more products for reuse and recycling, among other targets.

According to the foundation, the Global Commitment has brought together more than 1,200 organizations behind the shared goal of a circular economy. Companies representing 20 percent of all plastic packaging produced globally have committed to 2025 targets, and the updated report shows results at both the aggregate level and the company level, and benchmarks signatories’ performance against broader market trends.

The **progress report** highlights several key trends:

- Signatories have “bent the curve” on virgin plastic use in packaging. The Foundation says that while the global market has increased virgin plastic use by 13 percent compared to 2018, brand and retail signatories have, on average, decreased their use by 6 percent.
- Signatories tripled their use of PCR
- They eliminated more than 775,000 tons of packaging commonly identified as “problematic or unnecessary.”
- Systemic barriers, such as scaled reuse models, continue to hold back further progress.

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Compared to 2023, signatories reduced virgin plastic usage by 1.5 percent while increasing PCR usage by 2 percent. Also, they developed 2 percent more packaging that was designed for recycling.

Per foundation data, of the top 10 fast-moving consumer goods (FMCG) companies by revenue that also are commitment signatories, **Nestlé**, **PepsiCo Inc.**, **Unilever** and **L'Oréal** all recorded reductions in virgin plastic use from 2018-2024, based on the baseline year each joined the initiative.

For example, Unilever led those companies with a 23 percent reduction, though it still lags behind its 50 percent commitment for 2025. Nestlé and L'Oréal each reduced virgin plastic use by 21 percent, but both have set goals to reach a 33 percent reduction by 2025.

Of the top 10, **The Coca-Cola Co.** and **Mars Inc.** recorded 10 percent and 1 percent increases in virgin plastic use over the time period, respectively. Each of the six companies listed in the top 10 increased PCR content in their packaging from 2018-2024, though none have reached their 2025 targets. Each increased the percentage of packaging designed for recycling and packaging that is reusable, recyclable and compostable compared to their baseline years.

Among other large FMCG companies, **Mondelez International Inc.** (5 percent), **Diageo** (16 percent), **SC Johnson & Son Inc.** (33 percent), **Essity** (20 percent) and **FrieslandCampina** (28 percent) met or surpassed their 2025 virgin plastic reduction goals a year early, while Diageo and SC Johnson both also surpassed their 2025 PCR content goals.

Diageo set 40 percent PCR target for 2025 and reached 43 percent, and SC Johnson reported meeting its 25 percent PCR goal.

“We’ve made real progress, but as I often say, I wish we were even further along,” SC Johnson Chairman and CEO Fisk Johnson says in a news release. “We’ve learned that voluntary actions, such as using more recycled plastic in our products, can only go so far, unfortunately. The solution to the plastic waste crisis requires strong national standards like federal extended producer responsibility [EPR] to make companies, including ours, accountable for improving recycling systems, driving innovation and funding effective collection programs.

“EPR works. Around the world, it’s raised recycling rates and reduced waste. But it takes all of us working together to make it succeed.”

The foundation notes that businesses representing 20 percent of the plastic packaging market have recommitted to the **next phase of its Global Commitment**, setting 2030 targets and publicly reporting their progress. It adds that this initial group of businesses is expected to expand during the 12-month signup window.

“The Global Commitment is now more explicitly embedded in a broader market transformation approach, recognizing individual business action is a critical component, but not enough by itself,” the foundation says. “It is therefore complemented by a program of collaborative action and collective advocacy to unlock systemic barriers and help signatories achieve their goals, as outlined in the Foundation’s 2030 Plastics Agenda for Business.”

*(Source: Recycling Today; November 4, 2025)*

## **EU Recyclers warn commission of industry collapse**

More than 100 recyclers issued a call, coordinated by a Dutch consultancy, for the European Commission to take immediate action in addressing the causes of the current industry crisis – itself a window into what may await the North American recycling sector.

Coordinated by Netherlands-based Searious Business, the statement notes that the European plastics recycling industry “is at a critical breaking point,” despite €5 billion (\$5.8 billion) in investments from 2020 to 2023 and 12.5 million metric tons of installed capacity. As in the United States, EU recyclers are experiencing low demand for recycled plastics amid cheap virgin resin and “insufficient regulatory incentives for the use of recycled materials.”

Among the actions the signatories asked policy makers to take are to strengthen extended producer responsibility (EPR) mechanisms to ensure profitability of recycled materials and encourage investment, and to enhance import standards and certification schemes for all recycled plastics entering the EU.

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In addition, the statement urges plastics stakeholders to prioritize recycled plastics in their products to drive demand, and to collaborate across the value chain to innovate and integrate recycled content.

The statement is part of the Searious Business campaign called the “Elephant in the Room” seeks to “stop ignoring the obvious”: that recyclability alone cannot address the broader challenges associated with plastic waste. Signatories of the statement include equipment manufacturers such as Erema and TOMRA; recyclers Veolia Polymers and ReValyu; Gemini, parent company of Sigma Recycling; and chemical technology firm BUSS ChemTech.

“Recyclers cannot afford to wait for policy timelines — they need action now,” said Willemijn Peeters, CEO of Searious Business, in a press release. “Without consistent demand and fair market conditions, Europe’s recycling base will collapse — and with it, the foundation of a circular economy.”

### **Parallels in North America**

In North America, recyclers are experiencing the same issues that have resulted in the closure of more than a dozen plastics recycling facilities across Western Europe over the past three years, said Steve Alexander, CEO of the US-based Association of Plastic Recyclers.

Last month, WM closed its Texas film-recycling operations. And in September, RPET company rPlanet Earth shut down, mirroring the accelerating plant-closure landscape in the EU.

“Unless there’s a strong demand component by consumer brands using the domestically produced material, there’s not going to be a market for all this material that EPR is supposed to generate,” he said.

APR owns Resource Recycling, Inc., publisher of *Plastics Recycling Update*.

Among the mechanisms APR supports are incentives for both recycled plastic manufacturers and brand companies incorporating PCR into their products and packaging design. For example, following the announcement of French incentives to encourage the use of recycled content, recycling technology company Carbios decided to restart work on its new plant.

In North America, APR recently relaunched its Recycling Demand Champions Program, supported by The Recycling Partnership, to recognize companies committed to the long-term use of domestic PCR.

APR recently recognized Amcor, Charter Next Generation, Kraft Heinz, Novolex and Triton Group for their leadership in the use of domestic PCR, helping to strengthen the North American circular economy.

Alexander added that while APR can provide technical solutions to make a package or a product recyclable, “if there’s not a market, why are you developing your product?”

“Unless there are changes, it would be very difficult to see how we’re not going to be in the same position as Europe and elsewhere throughout the globe,” Alexander said.

*(Source: Plastic Recycling Update; Nov 12, 2025)*

## **Abu Dhabi Enacts Comprehensive Policy to Cut Emissions and Single-Use Plastic**

*The Emirate’s new framework sets a 22% carbon reduction target and has already delivered a 95% cut in plastic bag use.*

### **Briefing**

The Environment Agency ’! Abu Dhabi (EAD) has implemented a comprehensive Environmental Policies and Regulations Framework, anchored by the Abu Dhabi Climate Change Strategy (2023 ’! 2027). This action translates long-term sustainability goals into immediate, binding regulatory mechanisms for the energy and consumer sectors. The policy mandates a clear path for industrial decarbonization, aiming for a 22% reduction in carbon emissions by 2027, primarily driven by the energy sector. Concurrently, the Single-Use Plastic Policy, enforced since 2022, has already achieved a 95 per cent reduction in single-use plastic bag consumption, demonstrating the immediate impact of targeted regulation.

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## Context

For years, the informed public has questioned whether major economies in the Gulf Cooperation Council (GCC) would move beyond long-term net-zero pledges to implement concrete, short-term regulatory action with measurable impact. The central question was whether a strategic vision for economic diversification and environmental resilience could be translated into a binding, multi-sector policy framework that holds industry accountable for specific emissions and pollution targets.

## Analysis

This policy framework is driven by a strategic, long-term vision for environmental resilience, outlined in the Abu Dhabi Environmental Centennial 2071. The cause is a political decision to align the Emirate's governance with international standards, including the Paris Agreement, to secure a competitive, sustainable future. The effect is a clear signal to the energy sector that decarbonization is now a regulatory requirement, not a voluntary goal.

Think of this framework like a company's five-year business plan: it moves beyond a vague mission statement to set specific, measurable goals for different departments, forcing immediate operational changes. The new Measurement, Reporting, and Verification (MRV) system ensures compliance by creating a transparent, data-driven mechanism for tracking emissions, a critical component for any effective climate policy.

## Parameters

- Key Target '1 22% CO<sub>2</sub> Reduction by 2027. This is the absolute emissions cut mandated by the Abu Dhabi Climate Change Definition '1. Climate Change refers to long-term alterations in global or regional weather patterns. Strategy for the next four years.
- Plastic Policy Success '1 95% Single-Use Bag Reduction. The measured drop in consumption of single-use plastic bags since the policy's enforcement in 2022.
- Compliance System '1 Measurement, Reporting, Verification (MRV). The region's first system to track and verify emissions data, ensuring accountability to the Paris Agreement standards.
- Visionary Framework '1 Environmental Centennial 2071. A 50-year strategic framework guiding all environmental policy and regulation

## Outlook

The immediate focus will be on the ENERGY sector's progress toward the 22% emissions reduction target, which is the most ambitious component of the strategy. Watch for the full operationalization of the new Air Quality Regulation and the Measurement, Reporting, and Verification (MRV) system. The success of this MRV system, the first in the GCC region, will be a key indicator of whether this model of transparent, data-driven ENVIRONMENTAL GOVERNANCE can be replicated across other Gulf nations.

THIS NEW POLICY FRAMEWORK IS A CLEAR SIGNAL THAT ABU DHABI IS TRANSLATING LONG-TERM CLIMATE AMBITION INTO BINDING, SHORT-TERM REGULATORY TARGETS WITH IMMEDIATE, MEASURABLE SUCCESS IN POLLUTION REDUCTION.

(SOURCE: SUSTAINABILITY DIRECTORY; 9-10-2025)

## US Plastics Pact position paper addresses physical, chemical recycling

*The organization calls for consensus guidance on when these technologies should be used and the standards needed to protect communities and advance circularity.*

The U.S. Plastics Pact (USPP) recently released a **position paper** outlining the role of physical and chemical recycling in a circular economy, offering what it says is science-based, consensus-driven guidance to policymakers and industry leaders.

The paper, which the **USPP** says has been developed with input from the full plastics value chain, aims to provide clarity on how these technologies can help address hard-to-recycle plastics while ensuring they do not displace reduction, reuse or mechanical recycling efforts.

“Too often, these technologies are talked about in extremes—either as a silver bullet or as something to be dismissed outright,” says Jonathan Quinn, president and CEO of the Walpole, New Hampshire-based USPP. “This position paper

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is exactly what the USPP is designed to do—bring activators together in a precompetitive space to wrestle with hard problems and consider data-driven real-world solutions.”

The USPP says its position paper affirms that physical and chemical recycling are options for materials that cannot be addressed through reduction, reuse and mechanical recycling. The paper notes that the scale-up of these technologies should expand—not duplicate—recycling system capabilities, while enabling high-quality postconsumer recycled (PCR) content, including for applications requiring stringent health and safety standards.

The paper lists potential benefits of physical and chemical recycling for the overall circularity of plastics, including the ability to capture more materials that may be “difficult or impossible” to process mechanically, including challenging packaging and nonpackaging plastics such as textiles; a reduction in reliance on virgin plastic; and the ability to “unlock” additional applications that can use PCR, such as food-contact or medical-grade packaging.

In the paper, the USPP recommends adherence to the U.S. Environmental Protection Agency’s (EPA’s) **Waste Management Hierarchy**, which prioritizes solutions such as reduction and reuse, followed by mechanical recycling, then physical or chemical recycling for material formats that cannot be addressed otherwise. Examples of material that could be addressed by physical or chemical recycling include films and flexible packaging, certain food packaging applications, medical packaging and products and durable goods, such as toys, vehicle parts, electronics and more.

“We appreciate the thoughtful approach to understanding how each recycling pathway can help keep plastics in the value chain,” says Cherish Changala, vice president of sustainability and public affairs at Little Rock, Arkansas-based **Revolution Sustainable Solutions**. “Balancing innovation, environmental responsibility, sound policy and continued advancement in mechanical recycling will move us closer to true circularity.”

The paper also addresses environmental impact, stating physical and chemical recycling processes should have a lower environmental impact than virgin plastic manufacturing, confirmed through transparent, science-based assessments. Additionally, it says facilities should employ best practices and “good manufacturing processes” to ensure safe utilization of feedstock, intermediates and outputs while managing emissions and handling material streams safely.

Human health also is discussed. The USPP writes that environmental justice considerations should be included in all siting decisions for physical and chemical recycling facilities, and communities should be engaged in decision making when it comes to those facilities.

Addressing the topic of transparency and consistency, the USPP writes that recycled content should be certified using chain of custody certification standards, for example. The paper also advocates for transparency from the industry in regard to yield losses, as well as the need for a measurement standard for calculating recycling tonnages, using Canada’s system as an example.

USPP says its position reflects months of research, discussion and review. The organization says it examined scientific literature, existing policy approaches and environmental assessments and incorporated feedback from its activators across the plastics value chain.

“This position paper recognizes that physical and chemical recycling technologies can play a meaningful role in addressing plastics that are difficult to recycle through conventional means,” says Tamsin Ettefagh, chief sustainability officer and executive vice president of government and industry relations at Orlando, Florida-based **PureCycle Technologies Inc.** “As a physical recycler, we believe it is essential to define responsible parameters and to position these technologies as complimentary within the broader system. The U.S. Plastics Pact is helping create the clarity companies need to innovate with confidence. With the right guardrails, we can scale solutions that prioritize material-to-material recycling, expand circularity, protect communities and keep more plastic in the value chain—not in the environment.”

Crystal Bayliss, director of strategy and engagement at the USPP, says the goal of the position paper is to help policymakers, companies and communities make informed decisions grounded in science, transparency and shared responsibility.

“When implemented with the right standards and accountability, physical and chemical recycling can help unlock new circularity pathways for materials that today have no viable end-of-life solution,” Bayliss says. “This position provides the practical guidance needed to ensure these technologies strengthen our collective progress toward a circular economy.”

*(Source: Recycling Today, 24<sup>th</sup> November, 2025)*

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## NEWS IN BRIEF

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### Panel suggests reforms to make life easy for small enterprises

The high-level committee headed by NITI Aayog member Rajiv Gauba has recommended at least 17 reforms, aimed at easing regulatory and financial pressure on Micro, Small and Medium Enterprises (MSMEs).

The key recommendations cover credit access, compliance under the Companies Act, tax procedures, payment dispute resolution and CSR donations. The measures expected to significantly improve the business environment for small enterprises. The panel has provided the timelines for implementing the reforms, which are being examined by ministries and departments.

For improving access to credit, the panel has proposed expanding the Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE) to include manufacturing medium enterprises. It has also urged extending credit guarantee cover to receivables on the Trade Receivables Discounting System (TReDS) to ensure faster payments.

To deal with the problem of MSMEs struggling to operate, for govt entities delaying payment of arbitration award or challenging such orders, the committee has recommended strengthening the provision of mandatory preappeal deposit of 75% arbitral award value under the MSME Development Act. It has said the law should be amended to mandate pre-deposit enforcement through actual deposit and authorise partial release of payment of at least 50% due to micro and small enterprise suppliers after six months.

Appointment of a sole arbitrator has also been suggested to accelerate dispute resolution.

The panel has recommended exemption of all micro and small companies from the mandatory Corporate Social Responsibility (CSR) obligations under the Companies Act. It has suggested amendments of the provision, which currently lays down the applicability criteria for CSR obligations based on net worth, turnover and net profit thresholds. The committee

has also recommended reducing the number of mandatory board meetings of MSMEs from two per year to one per year.

Similarly, the panel has favoured removing the mandate for auditor appointment for companies with turnover of less than Rs 1 crore. It has also recommended raising the tax audit exemption limit for companies, with more than 5% cash receipts to Rs 2 crore from Rs 1 crore.

It has suggested the revenue department to reduce penalties for small errors by micro enterprises under GST and also to reduce interest rate. The revenue department has also been directed to reduce the frequency of retrun filing for MSMEs.

*(Source: TOI; 17<sup>th</sup> November, 2025)*

### Engineers India bags major order for petrochem plant from Dangote Group

Dangote plans to increase the polypropene production from 830,000 TPA to 2.4 million TPA

Engineers India Limited (EIL) partnered with the Dangote Group as the Project Management Consultant (PMC) and EPCM Consultant for the iconic 650,000 barrels-perday Dangote Refinery and Petrochemical Complex, commissioned in 2024.

This landmark facility is widely recognised as a transformative asset for Africa's energy landscape, standing as a testament to EIL's engineering brilliance and execution leadership. The project has reshaped Africa's energy architecture and elevated the region as a major hub for world-class hydrocarbon assets across the entire value chain. Dangote's Lekki refinery, engineered and executed by EIL, is among the world's largest single-train refineries, producing Euro-V quality gasoline, diesel, jet fuel, and polypropylene.

Dangote plans to expand its refining capacity from 650,000 barrels per day to 1.4 million barrels per day with a new PDH unit to increase the Polypropene Production from 830,000 TPA to 2.4 million TPA. The latest expansion further reinforces Nigeria's mission to become a regional hub for refined petroleum products and petrochemicals.

Building on this strong and trusted partnership, EIL has once again joined hands in this endeavour of Dangote and signed an MoU to partner as the PMC and EPCM consultant for this Project. Once completed, this expansion will position Dangote as the world's largest petroleum refinery, strengthening fuel production within Africa, reducing reliance on imports, and supporting regional energy security.

Speaking on the development, President of Dangote Petroleum Refinery and Petrochemicals FZE, Aliko Dangote said: "Dangote reaffirms its confidence in Engineers India Limited (EIL). We deeply appreciate the exemplary manner in which EIL executed the First Train of our refinery complex. Their professionalism, engineering depth, and project management excellence have been outstanding. The signing of this MoU for the Second Train is a clear testimony to EIL's sustained brilliance and our trust in their capabilities. We are confident that EIL will once again bring its very best to the execution of this

critical phase. With the completion of the Second Train, the Dangote Refinery will emerge as the world's largest refining complex."

Highlighting the significance of this important development C&MD, EIL, Vartika Shukla said: "This MoU is a strong affirmation of the trust reposed in EIL's capabilities to deliver projects of exceptional scale and complexity. As we move into this next phase, EIL will bring its decades of experience, multidisciplinary strengths, and global execution model to support Dangote in creating one of the world's most advanced and fully integrated refinery, petrochemical and fertilizer complexes. The proposed expansion to 1.4 million barrels per day is a project of global significance and will stand among the largest refinery complexes at a single location, complemented by world-scale fertilizer facilities, anywhere in the world."

(Source: ICN Bureau | November 27, 2025)

## औद्योगिक उत्पादन 13 महीने में सबसे कम

औद्योगिक उत्पादन की रफ्तार अक्टूबर में 13 महीनों के निचले स्तर पर आ गई। सांख्यिकी एवं कार्यक्रम कार्यान्वयन मंत्रालय ने सोमवार को बताया कि इंडेक्स ऑफ इंडस्ट्रियल प्रोडक्शन (IIP) के रूप में मापा जाने वाला औद्योगिक उत्पादन सालभर पहले से केवल 0.4% बढ़ा। माइनिंग, पावर और मैनुफैक्चरिंग सेक्टरों में सुस्त उत्पादन का बढ़ा असर पड़ा। साल भर पहले अक्टूबर में IIP ग्रोथ 3.7% और इस साल सितंबर में 4.6% थी।

अक्टूबर में मैनुफैक्चरिंग सेक्टर की रफ्तार घटी और उत्पादन 1.8% ही बढ़ा था। जो सालभर पहले 4.4% बढ़ा था। माइनिंग प्रोडक्शन तो 1.8% घट गया, जो सालभर पहले 0.9% बढ़ा था। वहीं, बिजली उत्पादन भी 6.9% कम रहा, जो सालभर पहले 2% बढ़ा था। टीवी फ्रिज सहित कस्यूमर ड्यूरेबल्स में ग्रोथ माइनस 0.5% और कस्यूमर नॉन-ड्यूरेबल्स में माइनस 4.4% रही। कुल मिलाकर इस वित्त वर्ष में अक्टूबर तक औद्योगिक उत्पादन की ग्रोथ 2.7% ही रही, जो सालभर पहले 4% थी।

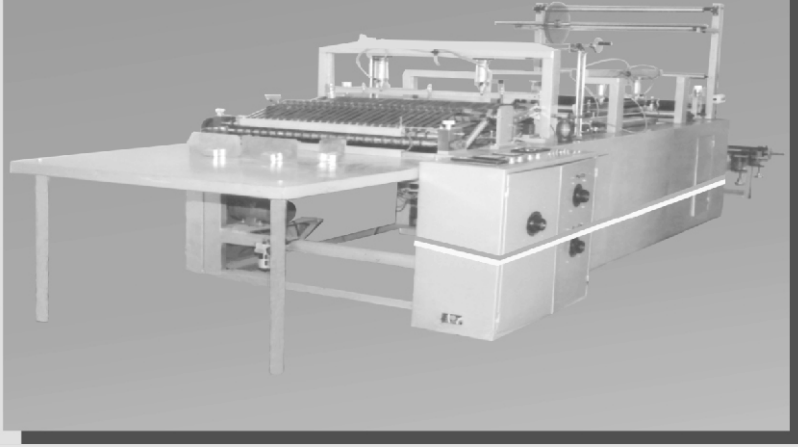
बैंक ऑफ बड़ौदा के चीफ इकनामिस्ट मदन सबनवीस ने कहा, बारिश का मौसम देर तक 'खिचने से माइनिंग और बिजली उत्पादन पर असर पड़ा। वहीं अक्टूबर में त्योहारों के चलते वर्किंग डेज कम होने का असर भी औद्योगिक उत्पादन पर दिखा है। इंडस्ट्री के लिए तीसरी तिमाही रहेगी क्योंकि GST में कमी और कम इनकम टैक्स रेट्स के पूरे असर के चलते लोगों का खर्च बढ़ना चाहिए।'

## नीचे आया मैनुफैक्चरिंग PMI

HSBC इंडिया मैन्युफैक्चरिंग परचेजिंग मैनेजर्स इंडेक्स नवंबर में 55.6 पर आ गया, जो अक्टूबर में 59.2 पर था। सोमवार को जारी रिपोर्ट में कहा गया कि सेल्स और प्रोडक्शन में सुस्त बढ़ोतरी के चलते ऐसा हुआ और यह फरवरी के बाद कामकाजी स्थितियों में सुधार की सबसे सुस्त रफ्तार रही। HSBC की चीफ इंडिया इकनामिस्ट प्राजल भंडारी ने कहा कि PMI के आंकड़ों से यह कन्फर्म हुआ है कि अमेरिकी टैरिफ के चलते मैनुफैक्चरिंग ग्रोथ सुस्त पड़ी। नए एक्सपोर्ट ऑर्डर में ग्रोथ 13 महीनों के निचले स्तर पर रही।

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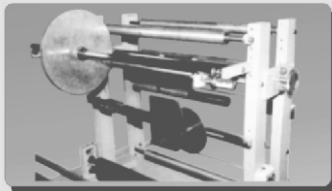
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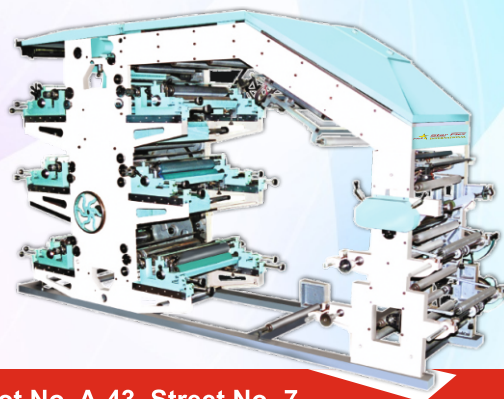
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