



# **IMPLEMENTING ISCC PLUS: DYNAMICS, BENEFITS, CHALLENGES AND OPPORTUNITIES**

**14th ISCC Global Sustainability Conference**  
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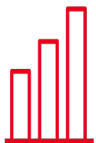
*Sr Business Sustainability Director EMEA*

*Dow Packaging, Specialty Plastics and Hydrocarbons*

# THIS IS DOW

Every answer starts with asking the right question.

At Dow, these questions and the pursuit of solutions for the world's toughest challenges inspire us to collaborate and use our materials science expertise to create innovative solutions that transform our world and deliver a sustainable future.



2022 NET SALES

**\$57B**



EMPLOYEES

**~37,800**



MANUFACTURING SITES

**104**



GLOBAL REACH

**31 countries**

in which Dow manufactures products



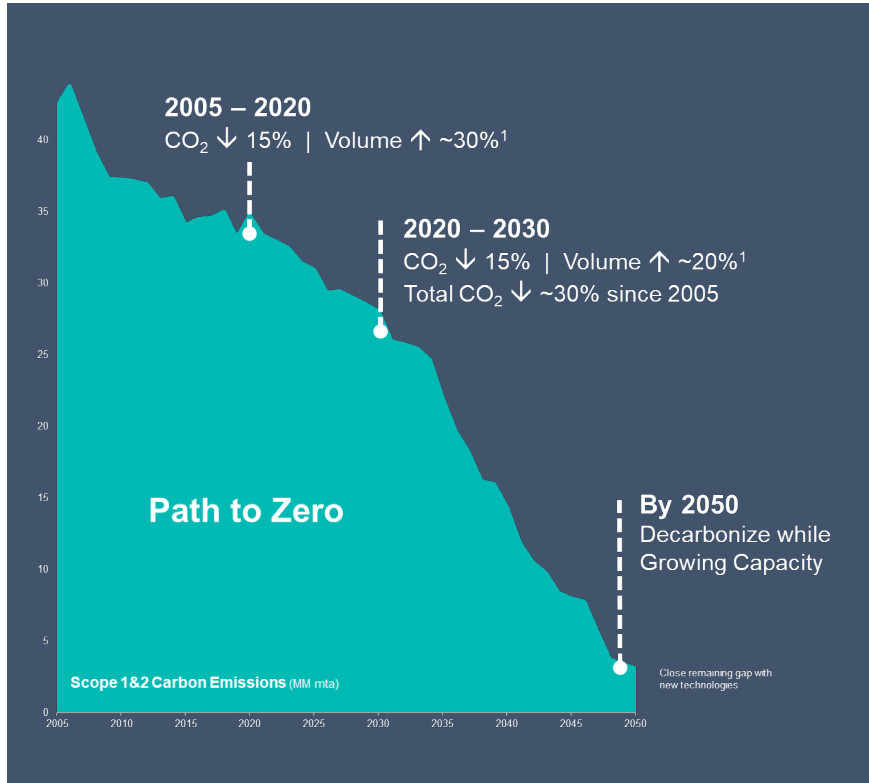
INTEGRATED CERTIFIED SITES

Steam crackers  
Polymerization plants  
Specialty chemicals

Note: All data as of December 31, 2022



# STRATEGIC PRIORITIES: CIRCULARITY AND CLIMATE PROTECTION



## Transform the waste

By 2030, Dow will enable **3 million metric tons** of plastic to be collected, reused or recycled through its direct actions and partnerships.



# INDUSTRY LEADER IN ENVIRONMENTAL SUSTAINABILITY

## Building a Materials Ecosystem

- Founding member of the **Alliance to End Plastic Waste**
- Scaling advanced recycling with **Mura Technology**
- Valoregen** to build the largest hybrid recycling site in France
- Collaboration with **WM** to improve recycling for plastic films
- New Energy Blue** to supply bio-based ethylene from renewable agricultural residue
- Developed disruptive PCR PE film solutions with **Circulate Capital**
- Gunvor** partnership to source circular feedstock
- Established the **Closed Loop Circular Plastics Fund** and invested in **LOIM Plastic Circularity Fund**
- Partnering with **Circusil LLC** to scale silicone recycling plant



## Delivering Innovative Solutions

- REVOLOOP™** Post-Consumer Recycled Resins for flexible or rigid packaging applications
- AFFINITY™ REN** Bio-Based High-Performance Polyolefin Elastomers
- ENGAGE™ REN** for low emissions footwear
- SURLYN CIR™ & SURLYN REN™** made from mixed plastic waste and bio-waste
- ECOSURF™ EH** Readily Biodegradable Surfactants
- AMPLIFY™ SI** Silicone Enhanced Polymer System increases use of recycled plastic from 70% to 90%
- RHOBARR™** Dispersions improve recyclability for coated paper products
- Automotive waste transformed into new car products using **SPECFLEX™ CIR & VORANOL™ CIR** foam
- Low carbon and circular propylene glycol solutions under **Renuva™**, **Ecolibrium™** and **Decarbia™** pillar brands



## Meeting Increasing Brand-Owner Demand

Enabling recyclability of air capsule e-commerce packaging with **P&G China**



Mercedes-Benz Group Media

**SPECFLEX™ CIR** support **Mercedes-Benz's E-class** to meet sustainability goals without compromising performance

Dow's sustainable packaging solutions enable **Mengniu** to launch all PE yogurt pouch designed for recyclability



Collaboration with **LVMH Beauty** delivered first **Surlyn™ ionomers** sales, which enabled the use of sustainable packaging in the cosmetics industry

Dow technology to support **Crocs** in reducing the CO<sub>2</sub> impact in manufacturing process



**SiLASTIC™** Self-Sealing Silicone enables **Bridgestone's B-SEALS**, a recyclable, silicone-based tire sealant technology

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# KEY DRIVERS: FAST-EVOLVING MARKET TRENDS AND REGULATORY LANDSCAPE

## Circular & Bio-circular Materials

### Market Trends

Environmentally conscious consumers demanding more sustainable solutions

### Recycled Content

Key technologies and infrastructure to significantly increase global recycling rates supporting regulatory trends.

### Traceability

Waste-to-end material tracking for improved transparency

## Transform the Waste



Bio-based materials



Circularity of consumer goods



Sustainable certified sources



Less waste



Low-CO<sub>2</sub> materials from non-arable land use



Health & environment protection



## ISCC PLUS IMPLEMENTATION: BENEFITS

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- Robust system enabling **traceability from waste-to-end product** providing granular and clear view of **input origin** and **output use**
- **Expanded access to international markets** as recognizing ISCC PLUS certification as a globally harmonized standard
- Recognized **transparency and credibility**, resulting in **increased consumer confidence, trust** and **brand recognition**
- Common denominator for sustainability claims

## ISCC PLUS IMPLEMENTATION: CHALLENGES AND OPPORTUNITIES

- **Limited availability of certified material** as global supply chain still develops
- Evolving **regulatory requirements** around **sustainable feedstocks and claims**
- Development and adoption rate of **several mass balance attribution models**
- Learning curve for Business-to-Business & Business-to-Customers claims
- **Increased auditing complexity** for global companies
- **Enhance** credibility and stakeholders understanding of mass balance certification and claims
- **Interoperability** and respective recognition of certification systems
- **Transparency** on ISCC transaction and licensing fees
- **Collaborate** on transparency and consistency in carbon footprint reporting across the supply chain
- **Enhance audit consistency** of system implementation along value chain



**Seek**

**Together™**