

Plastics Industry tackling Plastic Waste

International High Level Conference on Marine Litter

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Introduction



- Too often the way plastics are currently produced, used and discarded fails to capture the economic benefits of a more 'circular' approach and harms the environment.
- There is an urgent need to tackle the environmental problems that today cast a long shadow over the production, use and consumption of plastics.
- The million tonnes of plastic litter that end up in the oceans every year are one of their most visible and alarming signs of these problems, causing growing public concern.

Plastics Strategy European Commission's action plan





(Lebreton & Al., Nature Communication 7 June 2018)



Rivers come to the oceans bringing, every year, between 1,15 and 2,41 millions tons. 67% of this quantity is from 20 rivers mainly located in Asia





The voluntary commitment of the Plastics Industry

Proposing Solutions – Initiating Actions

- 1. Preventing leakage of plastics into the environment
- 2. Increase Re-Use and Recycling of plastics packaging
- 3. Accelerate Resource Efficiency

Plastics 2030 PlasticsEurope's Voluntary Commitment to increasing circularity and resource efficiency







Increase Re-Use and Recycling of Plastics Packaging



- Ensure high rates of re-use and recycling with the ambition to reach <u>60%</u> for plastics packaging by 2030.
- Leading to achievement of our goal of <u>100%</u> re-use, recycling and/or recovery of all plastics packaging by 2040.
- Sector Specific Commitments: via Platforms







Preventing Plastics Litter in the Environment





Actions to Prevent Pellet Loss

Goals:

- 100% of PlasticsEurope member companies to be signatories of Operation Clean Sweep ®
- Development of harmonized monitoring scheme for progress report
- Involve the entire value chain, including transport and logistics as well as engagement in major port authorities

Actions to Prevent Littering

- Launch of new research into top plastic items being littered in the marine environment; to identify suitable solutions to reduce littering
- Support educational programmes



Anew global alliance to help end plastic waste

The new alliance is the largest global, CEO-driven, cross-value chain initiative of its kind, working and investing to find common solutions to reduce plastic waste and prevent it from entering the environment The new initiative will invest \$1.5B USD over the next five years into initiatives and projects, including on-the-ground waste management and infrastructure development in the geographies needing it most, beginning in the Asia-Pacific region



Prevention

Catalyze investment in enhanced waste infrastructure to prevent plastic from reaching the environment

Innovation

Innovate new, sustainable technologies and business models based on sound science and economics

Education and Engagement

Engage and collaborate with governments, industry and consumers to drive effective solutions

Clean Up

Develop solutions to address and clean up areas of existing plastic waste in the environment

Alliance strategic pillars

ALLIANCE TO END PLASTIC WASTE

BASF, Berry Global, Braskem, Chevron Phillips Chemical Company LLC, Clariant, Covestro, Dow, DSM, ExxonMobil, Formosa Plastics Corporation USA, Henkel, LyondellBasell, Mitsubishi Chemical Holdings, Mitsui Chemicals, NOVA Chemicals, OxyChem, Procter & Gamble, Reliance Industries, SABIC, Sasol, SUEZ, Shell, SCG Chemicals, Sumitomo Chemical, Total, Veolia e Versalis (Eni).



The Chemical Recycling

Plastics Cycle: Production, Mechanical Recycling and Chemical Recycling





FCM = Food Contact Material



- Past experience in chemical recycling has shown that technologies in that field have faced, until now, economic and technical challenges preventing their commercial development in Europe.
- Today we are seeing a number of new developments and initiatives in this area; however, further innovation and funding is needed to make chemical recycling technically and economically a reality in the future.

Chemical Recycling

No time to waste: What plastics recycling could offer



McKinsey & Company—



