Circular Economy & Styrenics Circular Solutions
PolyStyreneLoop Open General Assembly
Greta Drumstaite, May 23rd 2018
PlasticsEurope is the pan-European organisation (with more than 100 member companies) representing the plastics manufacturers at the EU, regional and national level.
European Plastics demand by segments and polymer types


Data for EU28+NO/CH
The role of plastics in fostering circularity

- Raw materials feedstock
- Post-use
- Use
- Plastics production
- Product manufacturing

- MECHANICAL RECYCLING
- CHEMICAL RECYCLING
- ENERGY RECOVERY
- REUSE REPAIR
A European Strategy for Plastics in a Circular Economy

Voluntary Commitment
Plastics 2030

Plastics2030
PlasticsEurope’s Voluntary Commitment to increasing circularity and resource efficiency
PlasticsEurope’s Voluntary Commitment

Overarching goals

- Prevent leakage of plastics into the environment
- Improve resource efficiency and accelerate innovation
- Improve circularity of plastics packaging

Targets

100% reuse, recycling and/or recovery of all plastic packaging by 2040
60% reuse and recycling of all plastics packaging by 2030
PlasticsEurope’s Voluntary Commitment

General commitments

1. Preventing plastics litter in the environment
(Targets to prevent pellet loss, research on the top plastic items found in the environment, educational projects)

2. Improve resource efficiency and circularity of plastics
(Research into alternative feedstock, more regular updates of product Life-Cycle Inventories and Environmental Product Declarations, publication of extended waste data, new eco-design guidelines for plastics packaging)

3. Global initiatives
(Global Plastics Alliance, World Plastics Council)

Sector-specific commitments
Joint industry initiative to increase the circularity of polystyrene

**Press Release**
Brussels, 29-06-2017

**PlasticsEurope**

**PlasticsEurope Launches Industry Initiative to Drive Innovative Recycling Solutions for Polystyrene**
- Pro-active industry collaboration to address circular economy
- Consumer waste to be turned into polystyrene ultimately for food-related uses

PlasticsEurope launched today an initiative to promote innovative recycling solutions for Polystyrene, in a push to support the European Union’s circular economy plan. The group aims to engage the value chain in the development and industrialization of promising new recycling technologies.
Polystyrene - Production and Recycling

Post-Consumer Waste (5-10% PS in the Plastic Fraction)

mechanical processes

Physico /Chemical processes

Chemical processes

Recycling technologies

PS feedstock (95%) byproducts of varying composition

collecting / sorting / conditioning

Post-Consumer Waste (5-10% PS in the Plastic Fraction)

distillative separation

Crude Oil ➔ Naphta ➔ Styrene ➔ Polystyrene ➔ Compounding ➔ Moulding

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Styrenics Circular Solutions: What we do

Recycling technologies (WG1):
- Development of knowledge and feasibility on the recycling technologies
- Cooperation with academia / technology providers

Waste Streams & Sorting (WG2):
- Development of sorting technologies in cooperation with sorting organizations
- Waste data intelligence gathering
- Value chain collaboration
Styrenics Circular Solutions: Voluntary Commitment 2030

1. Development of recycling technologies to recycle PS/EPS back into original applications

2. Collaboration with the value chain to improve collection and sorting systems for packaging waste

3. Setup of structure for industrial scale-up of promising technologies