EU Instruments for Plastics Recycling and use of Recyclates: Now and Into the Future

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About Eunomia







A policy, strategy and implementation consultancy, we are led by our purpose of helping to transform our clients' environmental and economic outcomes for the better

We are market experts in systemic change in material and energy resource efficiency, working at the highest level of professional competence to meet our clients' needs Our work is global in scope with 100+ circular economy and sustainability specialists working on projects on six continents from bases in the UK, Brussels, Athens, New York and Auckland







Eunomia Sectors and Selected Clients

National, Regional, Government



Local Government

Somerset Waste

Private Sector

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Scottish Borders

environmental services

association

SURREY

SWA

COUNCIL City of Westminster

TOMRA

TESCO

Nestlé



Plastics are incredible materials

But their potential for persistence in the environment is now the cause of a major consumer, media and political backlash

PLASTICS IN THE MARINE ENVIRONMENT: WHERE DO THEY COME FROM? WHERE DO THEY GO?

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NGO and mainstream media campaigns are increasingly targeting brands and retailers, driving extensive voluntary commitments

Citizen Attitudes to Plastic and Consumption

Sustainability statements that could positively influence purchase

PACKAGING STATEMENT (found on existing FMCG products)					
Compostable packaging	46 %	50%	44 %	54 %	45 %
Packaging made of recycled materials	37%	35%	40 %	39 %	43%
Packaging made from renewable resources	31%	34%	20 %	33%	25%
Eco-friendly packaging	24 %	28%	28 %	33 %	38%
Reduced impact on climate change	22 %	18 %	16 %	13%	28%
Bio-based / bio-sourced packaging	22 %	15%	27 %	18%	22 %
Less plastic (eg. "30% less plastic")	19 %	17 %	20%	26 %	22 %
Sustainably-sourced packaging	17 %	22 %	17%	15%	8%
Lower/Low carbon footprint packaging	16 %	15%	20 %	12%	14%
CO2 reduced packaging	10%	14%	11%	9 %	6 %

KEY FINDING 6 PEOPLE WILL PAY MORE FOR MORE SUSTAINABLE PACKAGING

Europe

ready to pay 15% / 10% / 5% / 1% more for it? - in % of respondents									
(Price examples were given in local currency)									
Don't want to pay more	20%	21 %	8%	22%	14%				
Ready to pay 1% more	80%	79 %	92 %	87 %	86%				
Ready to pay 5% more	68%	69 %	83%	74 %	72%				
Ready to pay 10% more	52 %	55%	68%	55%	57%				
Ready to pay 15% more	44%	49 %	63 %	48 %	51%				

Willingness to pay more for more sustainable packaging If your favorite food brand was offering a more sustainable packaging, would you be

Plastic recycling – a real concern or a load of rubbish? Global

COMMANDING A PREMIUM

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How much more will consumers pay for sustainability?



with plastic bags, fizzy drink bottles and straws most at risk of being replaced or used less.

57% Plastic bags Fizzy drinks bottles Fizzy drinks



Top 3 items for those who will buy an alternative

Source: KANTAR Worldpanel

Top 3 items for those who will reduce use

Top 3 claims per country most likely to influence



EU Directive on Packaging and Packaging Waste

- New targets for plastic (and other) packaging
- Plastics: up from 22.5% (2018) to 50% (2025); 55% (2030)
- New calculation method as per WFD: metals from bottom ash included;
- Requirement for fee modulation as per WFD



Single Use Plastics Directive Measures

EU Directive on the reduction of the impact of certain plastic products on the environment (Article 6)

- Separate collection of single-use plastic beverage containers:
 - 77% by 2025;
 - 90% by 2029
- Recycled content:
 - 25% recycled content for all single-use PET beverage bottles by 2025
 - 30% recycled content for all single-use beverage bottles by 2030
- EPR costs extended to public waste collection and clean-up of litter

EPR Under Article 8 - Section I, Part E

- Food containers
- Packets and wrappers
- Beverage containers
- Cups for beverages and lids
- Lightweight carrier bags

Article 8(2) Awareness raising (Art 10) Public collection systems Clean-up of litter Costs of Collecting and Sorting Plastic Packaging which is Recycled via Separate Collection

Costs of Recycling Operation for Plastic Packaging from Separate Collection

Costs of Sorting and Recycling Packaging From Mixed Waste (to meet targets) Costs of Providing Information to Waste Holders

Costs of Data Gathering and Reporting

Material Revenues / Unclaimed Deposits Costs Associated with Awareness Raising e.g. littering and reusable alternatives

Costs of Collecting Packaging which is Littered

Costs of Treating or Disposing or Recycling of Packaging which is Littered Costs of Collecting Plastic Packaging which is Not Separately Collected

Costs of Treating or Disposing of Packaging which is Not Recycled

= required under PPWD / WFD= required under SUP

= permitted as per WFD Art 14







Net GHG Emissions (Billion tonnes CO2 equivalent)



Drive to Much Higher Recycling Rates



Start: 100 units made of 'raw materials'



Collect 70% for recycling



Recycling yields 95%



• Repeat...





Expanding LCA System Boundary for Material Circularity

System Boundary

Expanding LCA System Boundary for Material Circularity

System Boundary

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Shift to Reuse

Uptake of Recyclates

Recycled Content

Measurement questions will bring focus on the role of innovation and emerging technologies... as well as technical issues around food contact materials

Fuel ┥

Next Steps

EU Green Deal

- Climate neutrality by 2050
- Climate neutrality linked to circular economy ambitions
- Sustainable product policy trailed, as well as EU industrial strategy and new CE action plan
- Textiles, construction, electronics and plastics highlighted for action
 - Consider legal requirements to boost the market of secondary raw materials with mandatory recycled content'
- Revisit waste shipments regulations
- MS encouraged to use ecological tax reform

Circular Economy Action Plan (EU)

- Sustainable Product Policy initiative Eco-design Directive
 - Durability, reusability, repairability
 - Recycled content
 - Remanufacture
 - Restricting single-use / premature obsolescence
 - Digital passports, tagging and watermarks
- Packaging:
 - reduce overpackaging, design for reuse / recyclability
 - reduce complexity
- Plastics mandatory recycled content; framework for biobased and compostables

Taxes on plastic

- Italy: €450/tonne (compostables exempt)
- UK: £200/tonne on all plastic packaging with recycled content <30%
- Spain: €450/tonne tax on single-use packaging
- EU: €800/tonne of unrecycled plastic packaging under consideration as a budgetary support measure

Conclusions

- Regulation and voluntary commitments are starting to drive one another
- Broad direction of travel seems clear
 - Long-term, very high recycling rates
 - Systemic shift to reuse in some sectors
 - Increased recognition of role of circular economy in mitigating climate change
- If not now then soon.... We will have fiscal instruments that align raw material costs with environmental externalities

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