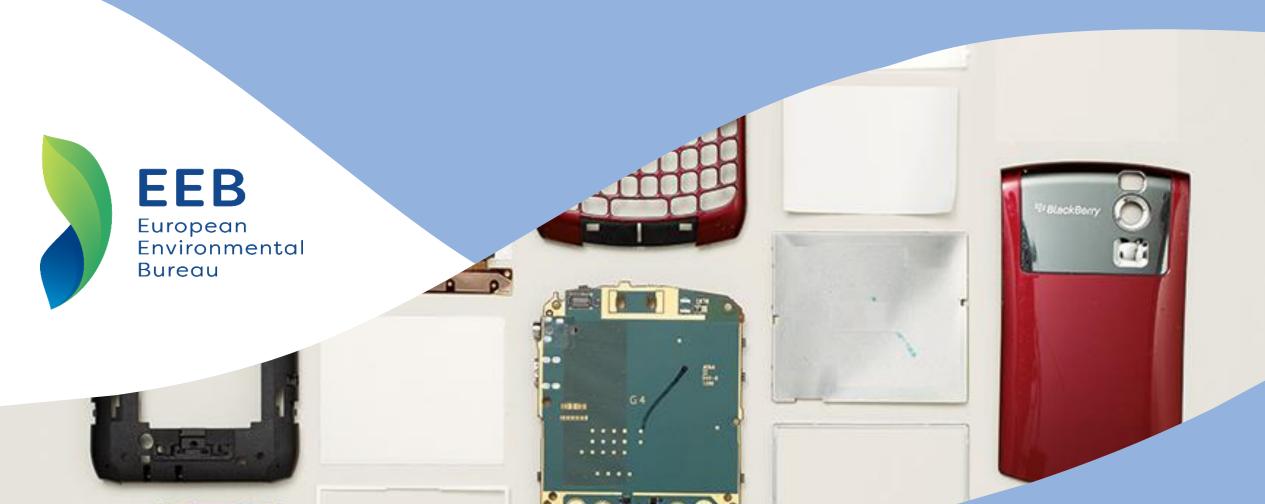
EURIC/EBCD EVENT ON CIRCULAR ECONOMY

22 March 2021



PREVENTION FIRST, NOT ONLY RECYCLING

Waste hierarchy



- > Staying strong on calling for science based material footprint reduction and waste prevention targets
- > Challenging current 'only recycling' business models ('recyclers' also disassemble, reuse...)



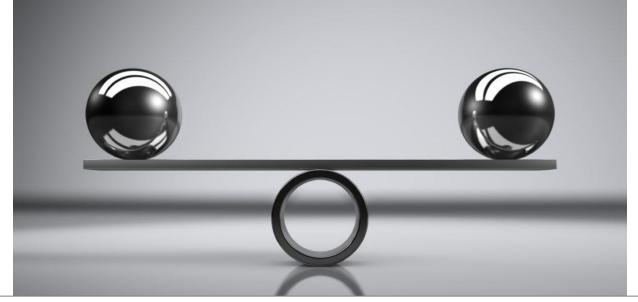
Recycled as virgin

- High quality & performance recycled materials
- No legacy substances

(CSS states same requirements for recycled as for virgin)

Recognising recycling

- Carbon credit & recognition of lower externalities
- Products requirements and modulated EPR fees (recyclability/recycled contents)
- 'Taxing' virgin resources use



Creating legal drivers & a fairer competion for recycling, not triggering a race to the bottom

ECO-DESIGN FOR & FROM RECYCLING

Phasing out design that hampers reuse, repair and recycling (through Sustainable products policy initiative)

		Product level - From start to concept			Table 17: Design guidelines on the part level		
POST-CONSUMER HIGH-TECH RECYCLED POLYTHERS FOR A CIRCULAR ECONOMY		Guidelines and design strategies for	Rationale		Part level: From concept to production		
HOME ABOUT PROJECT PARTNERS RESULTS NEWS & MEDIA DEMONSTRATORS CONTACT		recyclability	process. Batteries are also seen as dangerous by consumers, and therefore it is important to make them		Guidelines and design strategies for recyclability	Rationale	
WELCOME TO THE POLYCE PROJECT ENABLING RECYCLING OF PLASTICS FROM ELECTRONIC WASTE	ents	Use click/snap solutions to fix <u>hatteries</u> in a product. Avoid permanent fixing such as glued, welded, and enclosed solutions.			Avoid the use of brominated flame retardants (BFRs) such as PBDEs, TBBPA, PBBs, HBCDs, etc. in the product.	Plastics containing BFRs can usually be separated by recyclers nowadays and end up in incineration. Several BFRs are already restricted and it is possible that more will become banned in the future. If these substances are used in materials today, it is likely that they cannot meet the requirements to be recycled and reused in new products in the future (legacy substances). However, it is important to make sure that the selected alternative is not worse.	
Guidelines to design for and from recycling (technical EEE plastics)	o Buttanillo di no suopuezeu jo levou finitioni sicr pere 2K ins (dif	To fix valuable components (PCDs, cables, whres, and motors) in a product, use metal screws, click fingers, press fit, shrink foil, celf- screwed!tapering, or connectors. Avoid permanent fixing such as 2K (over-moulding, IML, insert moulding). PSA tapes, glue, melted (different plastics, enclosures), and welded.	Recyclers are most interested in valuable components. Facilitating the separation of these components will lead to a higher yield and less loss in other material streams. As of today, a significant part of e-waste is still recycled in an informal context (especially in developing countries), where valuable components are often extracted by unsafe methods such as burning cables to extract the copper and pouring acids on PCBs to get out valuable metals. These methods can release different kinds of toxic fumes and can pose a risk to human health and the environment. To account for these risks, designers are advised not to glue valuable components to eable easy removal. If valuable components are casier to remove, this design feature can contribute to less negative health and environmental impacts.				
					Avoid the use of substances of very high concern (SVHC) according to REACH and substances classified carcinogenic (Carc. 1A or 1B), mutagenic (Muta 1A or 1), reprotoxic (Repr. 1A or 1B) by CLP Regulation in housing/housing parts.	The reason for this recommendation is to impede these substances to be contained in future plastic recyclates.	
					Avoid the use of substances that are listed for future restriction on the 'SIN list' (<u>https://sinlist.chemsec.org/</u>)	These substances are mainly used in plastics as surfactants, solvents, stabilizers, plasticizers, anti- corrosions, pigments, and coatings. Do not use in concentrations above 1000ppm, (0.1% per article) per substance. Background: The 'SIN list' is a list of substances that are not yet restricted, but are being candidates to go on the SVHC list in the future. SIN list substances are a good indication of substances to be restricted / banned in the future. If these substances are used in materials today, it is possible that the future waste stream might not meet the requirements to be recycled and reused in	
	Enable easy access	Use drains for operating liquids and gasses and enable easy removal of components such as oil tanks, compressors, and hoses.	Some products contain operating liquids and gases that can be hazardous for human health and the environment. Providing easy to find drains that enable the removal of such liquids and gasses should be considered at the design stage. In case drains cannot be implemented, specific markings indicating where the product can be opened (if necessary by applying manual force) can help recyclers during the dismantling process.				
						new products in the future.	

RECYCLING IN EU, NOT EXPORTING WASTE

EU should not delegate its waste management (and overconsumption of resources) to third countries

STOP DUMPING WASTE (legally or illegally)

EXPORTING SECONDARY RAW MATERIALS (if too much recycling potentials)



PRESS RELEASE



THANK YOU!

www.eeb.org

@Green_Europe

@EuropeanEnvironmentalBureau
eeb@eeb.org

The EEB gratefully acknowledges the financial support from the LIFE Programme of the European Union. This communication reflects the organizers' views and does not commit the donors.

