

Drivers towards resource efficiency - the implementation of EU waste legislation

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Europe 2020: smart, sustainable, inclusive growth

- March 2010: Communication 'Europe 2020'
- Flagship: Resource Efficiency



"Economy that is efficient in use of all its resources...low carbon, resource efficient, climate resistant... biodiversity...."







Resource Strategy

- 1. Decoupling reducing negative impacts of resource use in a growing economy
- **2.** Improving resource efficiency
- 3. Avoiding overexploitation (biotic)
- **4.** Managing scarcity and shortages

In a life-cycle perspective



RAW MATERIALS Minerals-fuels-biomass



MEDIA FLOWS Air LAND Solar Soil Wind Water Tidal





EU RESOURCE POLICIES – LIFE-CYCLE









Contributions of waste policies to resource efficiency





EU waste management: facts and figures

- Total EU-27 waste generation 3 billion tonnes (6 t/person)
- More than 50% disposed
- Less than 50% recovered (recycling + energy recovery)
- Huge potential of reducing disposal and increasing the use of waste as a resource







Contribution of waste management to climate protection

prognos study 2008:

- Approximately 206 Mt CO2 equivalent by waste recycling and recovery in the 2004
- 146 to 244 Mt CO2 equivalents additional emission reduction until 2020
- → Waste sector can contribute to the EU 2020 targets 19% to 31%







CO2 emission reduction by better management of municipal solid waste



The Waste Hierarchy



- Moving waste management in the EU up the waste hierarchy
- Reducing landfilling and waste incineration without energy recovery
- Enhancing the use of waste as a resource





Reducing waste disposal - the Landfill Directive

- Closing landfills not conform with EU standards
- Technical standards for the installation of new landfills
- Reduction of landfilling biodegradable waste compared to amount of biodegradable waste produced in 1995
 - → 2006: reduction to 75%
 - → 2009: reduction to 50%
 - → 2016: reduction to 35%

Derogation: prolongation up to 4 years for Member States which in 1995 landfilled more than 80% of municipal waste







Diversion of biodegradable waste from landfills - a snapshot of 2006





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Promoting waste-to-energy

energy-efficiency-formula in Annex II as part of the recovery definition:

- scope: Incinerators for municipal solid waste
- waste replacing fuels in the plant or in the wider economy
- → 0,60 energy efficiency for installations in operation before 2009
- 0,65 energy efficiency for new installations
- incentive to improve energy-use from waste incineration

Commissions intends to prepare guidelines together with an expert working group





Promoting recycling by targets set by the Waste Framework Directive

- targets in Art 11(2) WFD to be achieved by 2020
 - preparation for re-use, recycling of materials "such as at least" paper, metal, plastic, glass from households + option for similar wastes to be increased to "a minimum of overall" 50%
 - preparation for re-use, recycling and backfilling of 70% construction & demolition waste
- Commission is preparing a decision on the calculation of the targets
- Commission review of the targets in 2014





Member States options to calculate the 50% target







Recycling, incineration and landfilling of municipal solid wastes in Europe



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TARGETS IN EU WASTE LEGISLATION



		min recovery	min recycling	collection rate
Packaging	2008	60%	55%	
Cars	2015	95%	85%	100%
Electronics	2006	70%	50%	min 4 kg per inhabitant per year
Batteries	2011		50% to 75% (efficiency)	
	2012			25%
	2016			45%
Tyres	2006	0 landfill of tyres		
Biowaste diverted from landfills	2006	reduction to 75% of the 1995 level		
	2009	reduction to 50% of the 1995 level		
	2016	reduction to 35% of the 1995 level		
New targets	2015	Separate collection: at least paper/metal/plastic/glass		
(WFD)	2020	50% household waste		
	2020	70% construction and demolition waste		

Recycling and recovery of bio-waste

Art 22 WFD: Member States shall promote

- → Separate collection of bio-waste
- → Recovery of bio-waste
- Commission has carried out an assessment: do we need for more specific European legislation on bio-waste?
 - → benefits of **bio-waste prevention**, in particular food-waste
 - Benefits from improving separate collection and biological treatment (composting and anaerobic digestion)
 - → Quality standards for composts
- Commission Communication COM(2010)235 final





Supporting recycling markets by setting end-of-waste criteria

- End-of-waste criteria should
 - support recycling markets and
 - → improve the implementation of waste management law
- Commission is currently working on
 - → iron and steel scrap
 - → aluminium scrap
 - → copper scrap
 - → paper
 - → glass



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Waste prevention – a new dimension

Member States to establish waste prevention programmes until 2013

- → set out prevention objectives,
- determine qualitative and quantitative benchmarks or targets for waste prevention,
- → describe prevention measures, such as
 - Economic instruments for sustainable resource use
 - Promotion of eco-design for products
 - Campaigns to change consumer behaviour
 - Supporting the reduction of industrial waste (EMAS, ISO 14001)
 - Green public procurement



Breaking the link between economic growth and waste generation





Waste prevention: framework to be further developed

European Commission

- Establishment of a system for sharing information on best practice regarding waste prevention
- → Development of prevention guidelines for Member States
- → Development of waste prevention indicators
- 2011: Commission report on the evolution of waste generation and waste prevention
- 2014: Commission to propose waste prevention and decoupling objectives by 2020, if appropriate







Waste Hierarchy - the future!







On the horizon ...

- 2010: Review of Commission's waste and resource strategies
- **2011:** Report on waste generation and prevention

2014:

- Review of the targets of the Waste Framework Directive
- Report on waste prevention and decoupling objectives for 2014.





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