

National Waste Prevention Programme



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What challenges face Irish business in waste management?

Recycling obligations – e.g. packaging WEEE

Producer

Compliance costs:

Self-compliance, Repak, WEEE Ireland, ERP



User

Recycling costs:

Packaging, WEEE – obliged to have it recycled (should be cheaper than landfill)

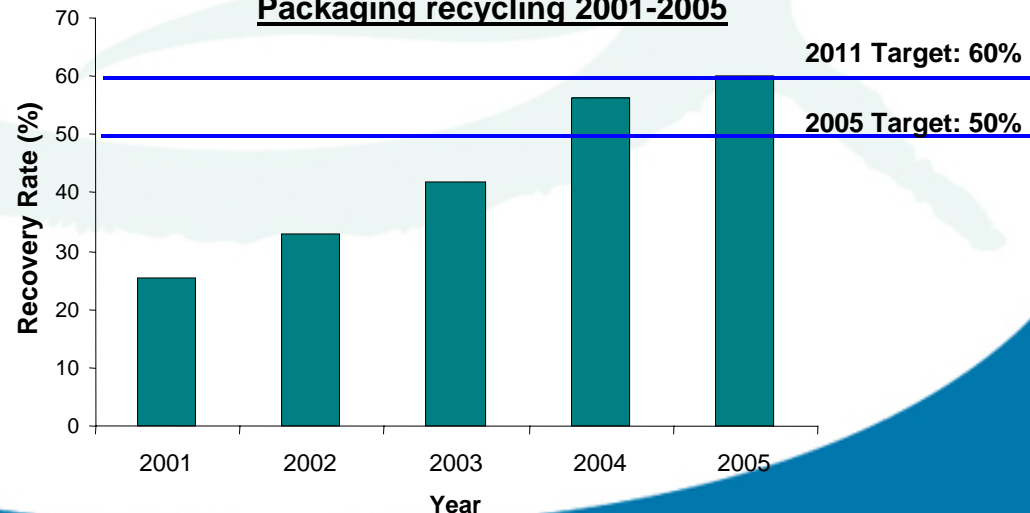


Responses:

For packaging – reduce weight, use less, recycle

For electrical – replace less frequently, design for repair and longevity, eco-design

Packaging recycling 2001-2005



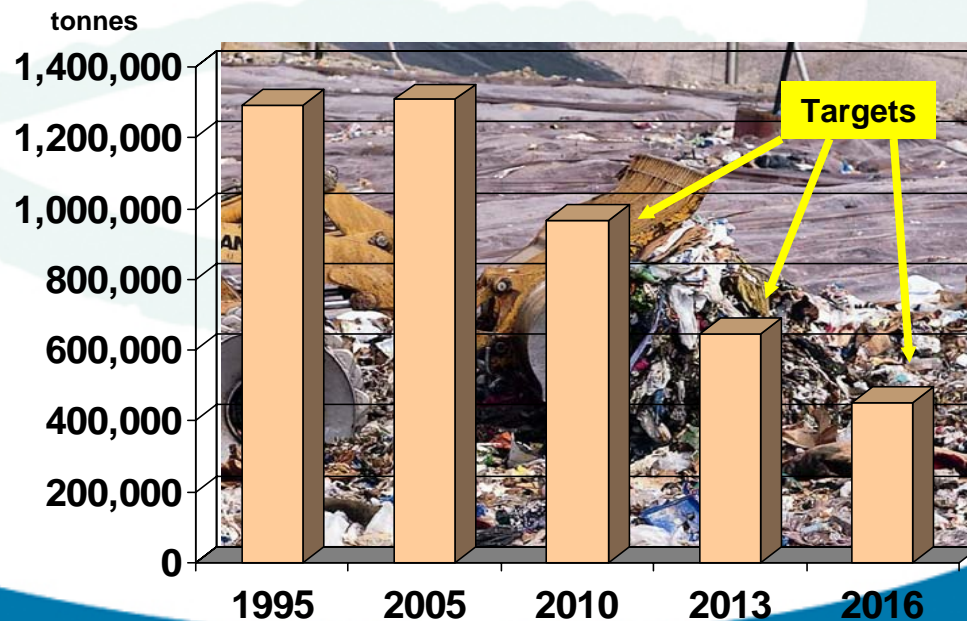
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Recycling obligations – e.g. packaging WEEE

Access to landfills
– especially for organic waste

Landfill Directive

Biodegradable municipal waste to landfill



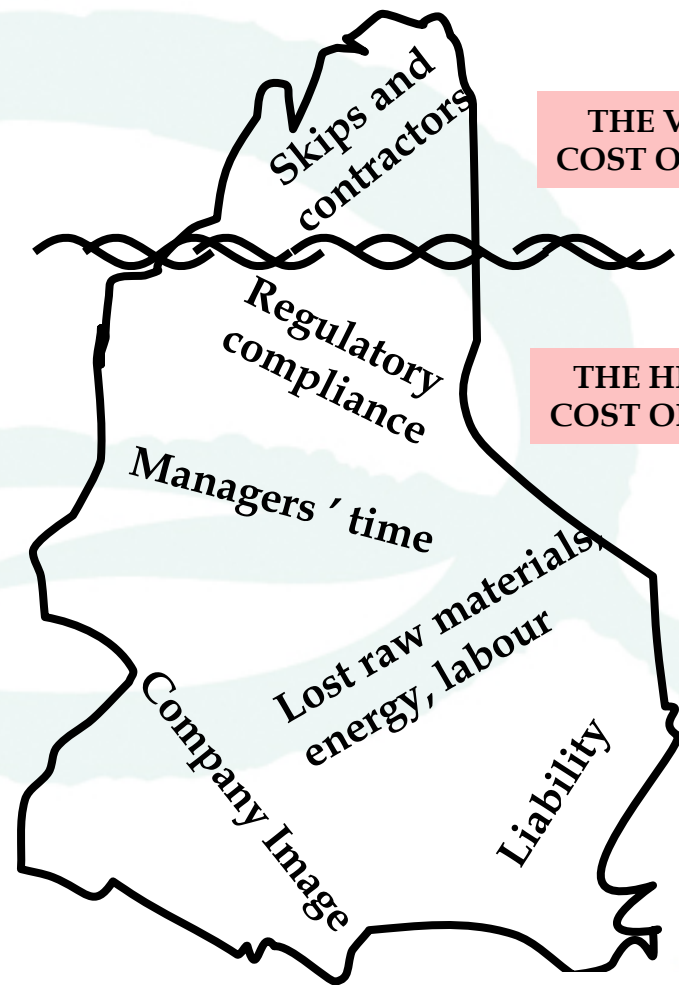
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Recycling obligations – e.g. packaging WEEE

Access to landfills
– especially for organic waste

Internalised waste management costs
- full accounting

The waste iceberg
- don't let it sink you



from UNEP DTIE 2001

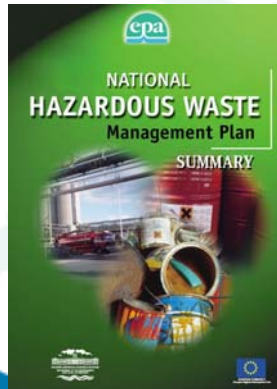
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Management of hazardous waste



National Hazardous Waste Management Plan

- under review
- consultation draft expected in October
- consultation conference 15 November

New focus likely to be on small generators of hazardous waste

- garages
- farms
- photo processing chemicals waste
- other sectors

Initiatives likely to be proposed on

- providing adequate collection services for small business
- enforcement
- measurement and benchmarking
- promoting prevention and good practice

What challenges face Irish business in waste management?

Recycling obligations – e.g. packaging
WEEE

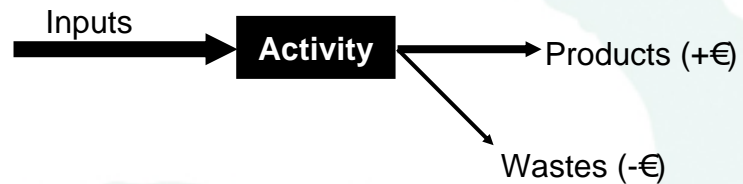
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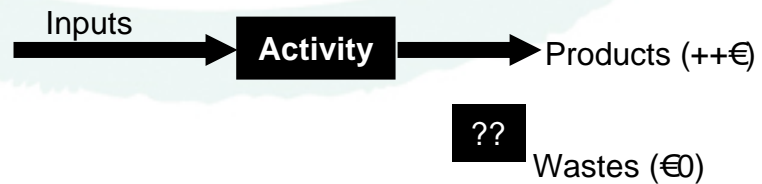
Management of hazardous
waste

Opportunities

Prevention and minimisation of waste

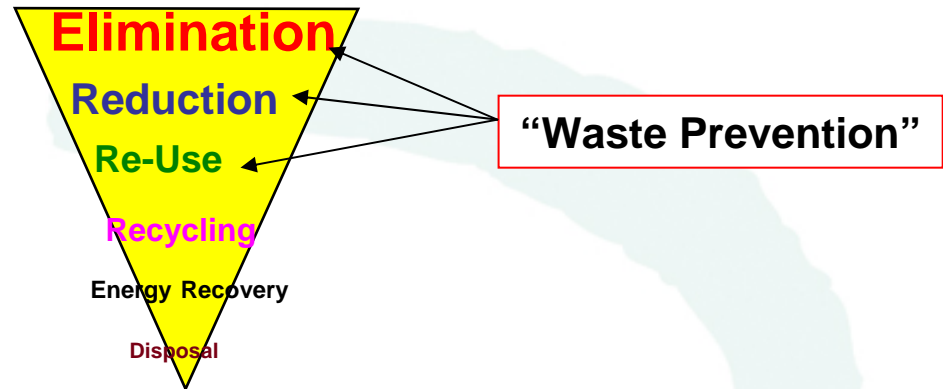


$$\text{Profit} = \text{products} - \text{inputs} - \text{activity} - \text{wastes}$$



Opportunities

Prevention and minimisation
of waste



What it's not

- It's not recycling
- It's not composting

What it is

- Elimination
- Reduction
- Reuse of materials
- Reduced "hazardousness"
- Conservation of raw materials
- Common sense
- It is old-fashioned efficiency

Opportunities

Prevention and minimisation of waste



Disposal to landfill – **ongoing cost**, lower at present, subject to landfill levy €15/tonne



Recycling – **ongoing cost**, should be cheaper than landfill
Meets your obligations vis-à-vis packaging, WEEE, biodegradable waste etc.



Prevention – if no waste is generated, then **no landfill or recycling costs** incurred.

- Goes beyond your obligations. Do it for sound financial reasons.
- Might be investment one-off costs. Examine payback. Start small.
- Often needs staff involvement – sociological change.

Case studies

Value Green Construction Scheme

Three construction companies in Waterford

Reduced average waste management costs by
€86,164 each per year – 1-2% of turnover.

Waste management cost savings
accrue to the construction company

Best practice activity	Average saving per VGCS participant
Accurate ordering and elimination of over-supplying by builders providers	€27,000
Reduced collection of materials by internal staff (fuel savings)	€3,000
Materials “rescue”	€37,500
Return of packaging to suppliers or sub-contractors	€7,110
Reduced skip costs	€11,554
	€86,164 per year

Further information:
www.cleanerproduction.ie

Case studies

Oran Pre-Cast

Produce concrete flooring slabs, which are cut to size. Manual marking resulted in cutting errors often only detected at installation. This required reworking and delivery of new product.

Marking of cuts by computer, linked to CAD, eliminated measuring defects and the need for reworking or replacement of slabs.

Plant capacity has increased by 20% as a direct result of eliminating this waste stream.

Sligo General Hospital

Achieved 12% reduction in water usage by monitoring and reporting leaks (€9,500)

Potential to save €7,000 in clinical waste disposal costs – needs awareness and better waste segregation

Savings of €17,000 per year possible by recycling 1.1 tonnes cardboard per week

Waste management cost savings accrue to the organisations in question

Further information:

www.cleanerproduction.ie

Case studies

Baileys bottle

Lightweighted glass bottle by 12%

Glass packaging saved per annum 378 tonnes

Reduction of cardboard use in cases by 80%

Cardboard packaging saved per annum
53 tonnes

Raw material and transport cost savings
accrue to Diageo

Waste recycling costs (glass and cardboard)
should accrue to retailers, bars etc.



Further information:

www.preventandsave.ie

Case studies

Georgia Pacific

Removed cores from toilet tissue rolls

Reduced packaging film by 76%

Improved pallet utilisation by 66%

Raw material and transport cost savings accrue to Georgia-Pacific

Further information:

www.preventandsave.ie



The Framework

- National Waste Prevention Programme -

- Local Authority Prevention Demonstration network (13 LAs participating)
- Green Business Initiative
 - waste audit tool (wasteaudittool.com)
 - water audit tool (2008)
 - resource efficiency audit tool (2008/9)
 - site assessments and advice
- Case Studies Implementation
 - selected CGPP case studies will be “brought on the road”
 - target companies will be offered assessments and assistance
- Hotels and hospitality project
 - “Greening Irish Hotels” CGPP project will be implemented widely. All hotels will be invited to participate according to priority.
- Repak’s “Prevent and Save” project – preventandsave.ie

What should you do?

Are you a generator of waste?

- measure and manage your waste
- ask what happens to it
- think about what it's costing you
- can you “prevent and save”?
- is your waste contractor giving you the best service and sharing cost savings with you?

Are you waste industry?

- are you advising clients on waste presentation to allow them reduce their costs?
- are you innovating your services – e.g. providing professional advice on resource and material management?

For further information and future developments:

www.epa.ie

www.epa.ie/whatwedo/resource/nwpp/