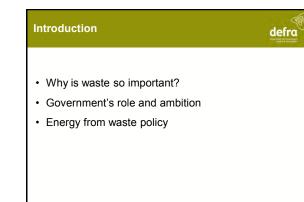
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Energy from Waste: A policy perspective

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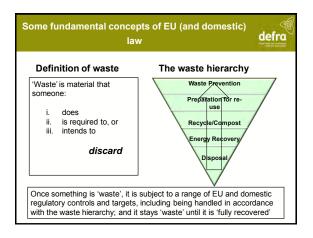
RSC Environmental Chemistry Group RSC Environment, Sustainability & Energy Division Symposium 14 March 2012 Energy, Waste & Resources – three sides of the same coin ?



Why are we all so interested in waste? defro • Excessive or poorly-managed waste leads to: •

- environmental damage
- the loss of valuable resources that could be put to better use
- health risks (hazardous wastes)
- Biodegradable wastes:
 - ending up in landfill produce methane, a powerful greenhouse gas (hence
 - both domestic carbon budgets and EU landfill directive limits)

 can be a source of renewable energy (anaerobic digestion, biogenic fraction)
 - of mixed waste EfW), contributing to EU targets
- Waste policies affect citizens in their daily lives (and their newspapers):
 - household waste collection, fly-tipping, carrier bags etc
 - · public attitudes to incinerators



Progress over the last decade

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- Over 9m tonnes of Local Authority collected waste diverted from landfill since 2000
- Landfill Directive targets met for 2010, on track for 2013 & 2020
- Household recycling rates up from 11% in 2000/01 to 40% now
- 52% of commercial and industrial waste was reused or recycled in 2009, compared with 42% in 2002/3
- 173 authorities are now collecting 5 or more dry recyclables at kerbside
- Average residual waste per person has reduced by 76kg since 2006/07 to 275kg/person/year in 2009/10

Government Review of Waste Policy in England 2011

- Published June 2011
- Sets out Coalition Government view of waste and resource policies, and the roles of Gov't and other key actors in moving towards a 'zero waste economy'
- · Twin themes:
 - a more sustainable approach to the use of materials
 - improving service to households and businesses
 - While delivering environmental benefits and supporting economic growth

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Energy from Waste (EfW) **Delivering more energy** defra · Government supports EfW as part of the · EfW can make a significant contribution to renewable waste hierarchy energy targets · Environmental benefits and energy generation · Need to get more energy out of less waste · Aim: Most energy out of waste, not the · Improving processes most waste into it · Different products · Technology neutral - right technology for Allington, Kent right fuel · Look ahead and be adaptable

Importance for economic growth - the Going forward defra defra road to a greener economy · A green economy is one in which value and growth are maximised · Waste becoming seen as a valuable but diminishing across the whole economy while managing natural assets sustainably. resource · Need to get more value out of waste not more waste in • The waste market in the UK accounts for some 0.7% of GDP. (BIS "Less is more": Business opportunities in Waste and Resource Management. March 2010) · Look towards new technologies, processes and products · Energy from waste beyond electricity and heat Opportunity is in the development of new markets for recovered · Deliver valuable energy in a sustainable manner products · Opportunities for growth in a green economy · Government is committed to reducing the burden of regulation

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