The Role of Waste in a Sustainable World City

Shirley Rodrigues Head of Environment Greater London Authority

Mayor's Vision for Waste in London

• By 2020, municipal waste should no longer compromise London's future as a sustainable city.

need to

•produce only the minimum amount of waste

manage waste better to minimise impacts

- on the local and global environment
- on London communities,
- on our economy
- on our heath.

Policy Context - MMWMS



London waste targets

85% regional self-sufficiency by 2020 London Plan 04

45% municipal waste recycling/composting by 2015 London Plan Draft Further Alterations 2006

70% commercial/industrial waste recycling/composting by 2020 London Plan Draft Further Alterations 2006

95% re-use and Recycling of construction/demolition waste by 2020 *London Plan Waste and Minerals Alterations* 2006

London's Municipal Waste management

London's Municipal Waste Management



Climate Change – new factor

<text></text>
MAYOR OF LONDON

- Climate Change Action Plan
 published in February 2007
- Creates a single shared climate change agenda for London, including the GLA family
- Maximises carbon reduction by focusing on highest-impact initiatives
- Creates awareness of Mayor's priorities and of what he will deliver
- Includes actions by partner organisations and what Government action is required
- Focuses on mitigation (reducing CO2 emissions)

CO₂ emissions from London excluding aviation (2006)



Climate Change Action Plan

- A Green Homes Programme
- •A Green Organisations Programme
- •A Green Energy Programme
- •A Green Transport Programme

Where emissions come from: Energy supply 2006 emissions from all sectors,

excl. aviation

100% = 44.3 million tonnes CO₂

2006 emissions from energy supply 100% = 34.7 million tonnes CO₂



Why is de-centralised energy so important?

Promoting decentralised energy







New opportunities - number and type of new facilities needed in London

Facility type	Through put per facility (tonnes per year)	Landtake per facility (ha)	Number of facilities	Total landtake (ha)
Materials reclamation facility (recycling)	42,000	0.9	199	179
Composting	19,000	1.25	57	71
Mechanical biological treatment	125,000	1.75	16	28
Anaerobic digestion	15,000	1	25	25
Gasification/pyrolysis	114,000	2.25	11	25
Totals			308	328

Greenhouse Gas balances of Waste Management Scenarios

MAYOR OF LONDON



Greenhouse gas balances of waste management scenarios



January 2008

Key findings



Conclusion

 need a new approach to sustainable waste management

• must weave in the climate change imperative to our approach.

 huge potential for carbon savings and minimising our ecological footprint

 otherwise no city, let alone London, can claim to be truly sustainable.

Further Information

Municipal Waste Management Strategy and Greenhouse Gas Study:

www.london.gov.uk/mayor/environment/waste/index. jsp

The London Plan:

www.london.gov.uk/mayor/planning/strategy.jsp

Climate Change Action Plan

www.london.gov.uk/mayor/environment/climatechange/ccap/index.jsp

London waste statistics:

www.capitalwastefacts.com

Recycle for London campaign:

www.recycleforlondon.com