

Tackling Bulky Waste in the South East

Solutions for waste carpets and mattresses

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The Project

Welcome and Introduction

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Aims of today:

- Background to Remade South East
- History and successes of the Bulky Waste Project to date
- What's out there? - Findings from Bulky Waste Survey
- What's happening? - Industry knowledge and experts overview their operations and experiences.
- What can be done? - Workshops to explore further options and increase diversion of carpets and mattresses.



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What is Remade South East?

- Not-for-profit company which helps to divert valuable waste resources away from landfill into new end uses
- Implements re-use and recycling schemes through research and demonstration trials
- Works with businesses, Councils and community groups to find practical solutions to challenging waste issues
- Seeks to minimise the region's environmental footprint by saving natural resources and reducing CO2 emissions

ZeroWISE Bulky Waste project

5 work packages:

1. South East Bulky Waste Survey
2. Market trials for bulky materials
3. Trial collections of bulky items from households and businesses
4. Exploration of energy from waste solutions
5. Raising awareness of businesses, local authorities and social enterprises

Aims of the project

- Carry out innovative research on bulky waste items from public sector and businesses in the South East
- Reduce volumes and tonnes going to landfill
- Reduce CO2 emissions
- Form partnerships between SMEs, Councils and voluntary sector to find solutions
- Operate demonstration trials and surveys to test methods of collection, treatment and market suitability
- Provide reports, case studies and guidance for replication of trials across the region

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Funding of the Project



South East Development Agency (SEEDA) European Regional Development Fund (ERDF)

- ERDF was set up in 1975 to stimulate economic development in less prosperous regions of the EU.
- Through a total of €47.412 Million the 2007-2013 SEEDA/ERDF programme of activity aims to:

To promote competitiveness in South East England whilst contributing to the reduction of the region's ecological footprint.

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What is bulky waste?

Carpets

Mattresses

Plasterboard

Bulky plastic items

Furniture

Treated wood



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Project Partners

- Remade South East (lead partner)
- East Sussex County Council
- Medway Council
- MDJ Light Bros.
- Ball Contractors
- Countrystyle Recycling
- Neighbourhood Furniture Store
- Kingsnorth Waste Management



Project Contributors

- Beyond Waste
- PPR Wipag
- Kent County Council
- Wrap



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Market trials for bulky materials

- Trial activities to develop markets for carpets, mattresses, waste wood, bulky plastic items, furniture and plasterboard
- Support processes for shredding, chipping, metal extraction, bulking and granulation
- Increase promotion of reuse schemes to customer groups
- Divert 30,000 tonnes of bulky waste from landfill

Plasterboard recycling trials

- ‘Closed loop’ scheme
- Crushed for gypsum and paper separation
- Gypsum sent to Knauf for manufacture
- Paper recycled for animal bedding on Kent farms
- Adjacent businesses = reduced CO2 emissions



Bulky plastic recycling trials

- 9 weekly collections from KCC HWRC
 - 70% PP/PE
 - 15% PVC, ABS, styrene, PC
 - 15% general waste and metal
- Process sample PP/PE mix through bumper recycling line
- Shred, density separate & granulate the material
- Established chemical properties and produced test mouldings



10.76 tons during trial

Re-use furniture collections

- Expansion of Neighbourhood Furniture Store collections into Medway area
- Refurbished for sale to vulnerable and disadvantaged people.
- Creates jobs and volunteering opportunities for local people
- Zero waste approach
0.3 tonnes every 3 months
- Average of 3 tonnes per month

50.35 tonnes diverted = 600+ items
since project began





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Project diversion to date

<i>Furniture re-use</i>	<i>NFS</i>	<i>50.35</i>
<i>Plaster board</i>	<i>Countrystyle & ESCC</i>	<i>6,478.50</i>
<i>Waste wood</i>	<i>Countrystyle & ESCC</i>	<i>13,604.50</i>
<i>Plastic</i>	<i>PPR Wipag & KCC</i>	<i>10.76</i>

Total Tonnes diverted	20,144.1
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CO2 Saved	4,028.8
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