

Contact Details;

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Carpet Recycling UK

Not-for-profit membership association

Divert carpet material from landfill

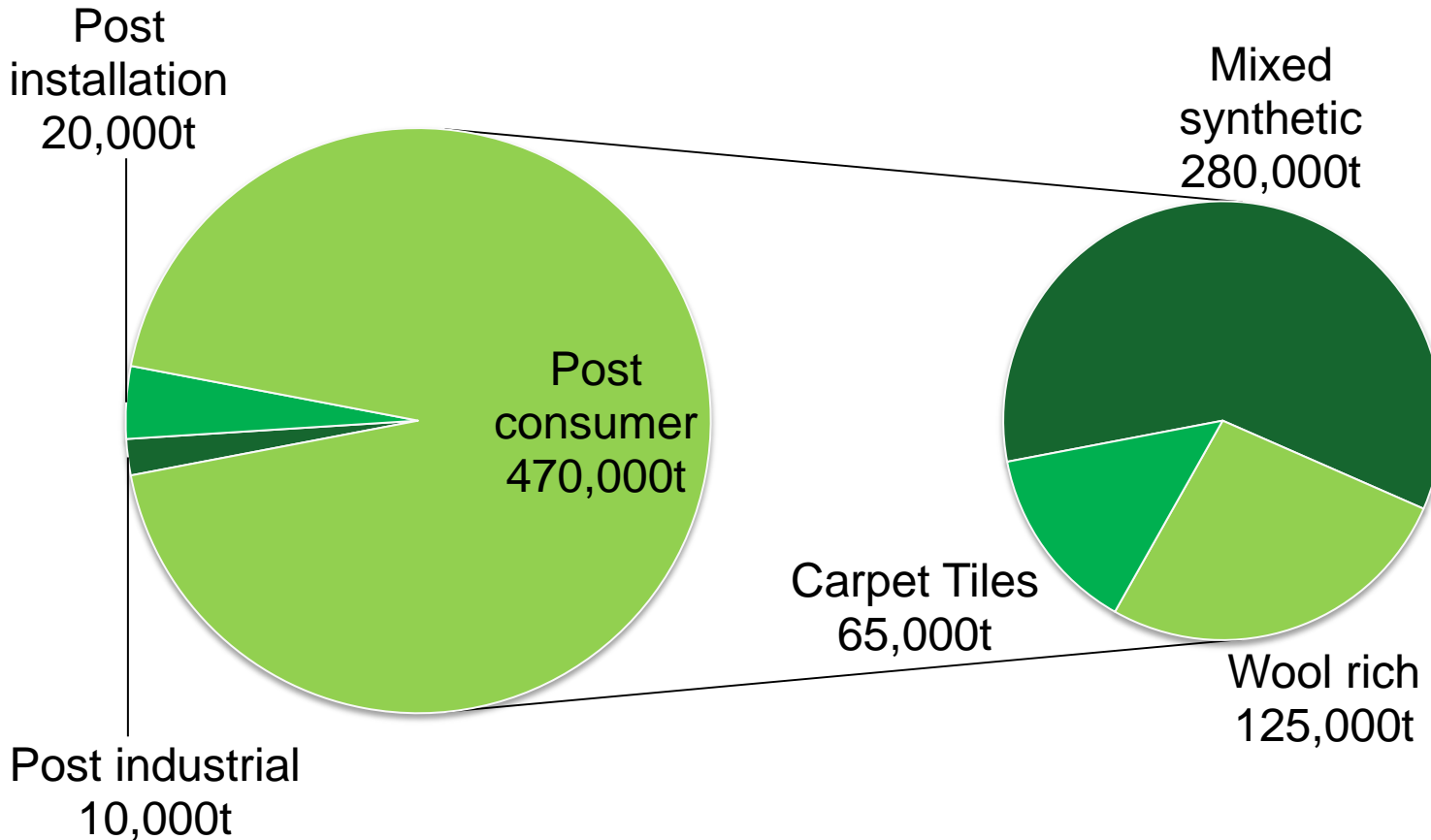
End market development, Information and advice, Lobbying

Increased recycling rate by 20%, cost savings for members

Goal:
25% landfill diversion by 2015



500,000 tonnes of carpet waste arising in the UK every year



UK Carpet Waste Facts

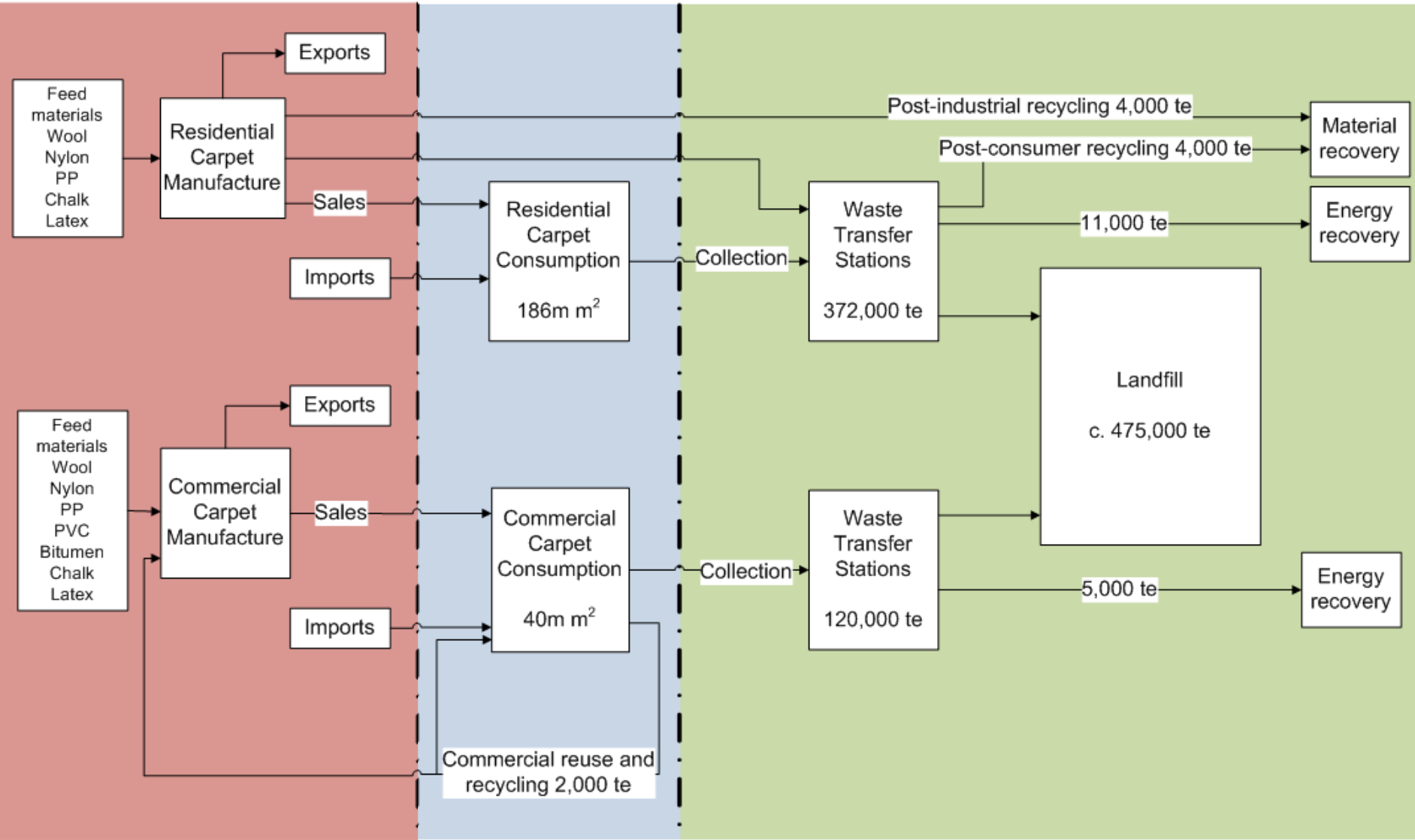
- ~ 10% residual waste in civic amenity sites
- 4.2 tCO₂e saving for every tonne recycled
- Low recycling rate ~2%



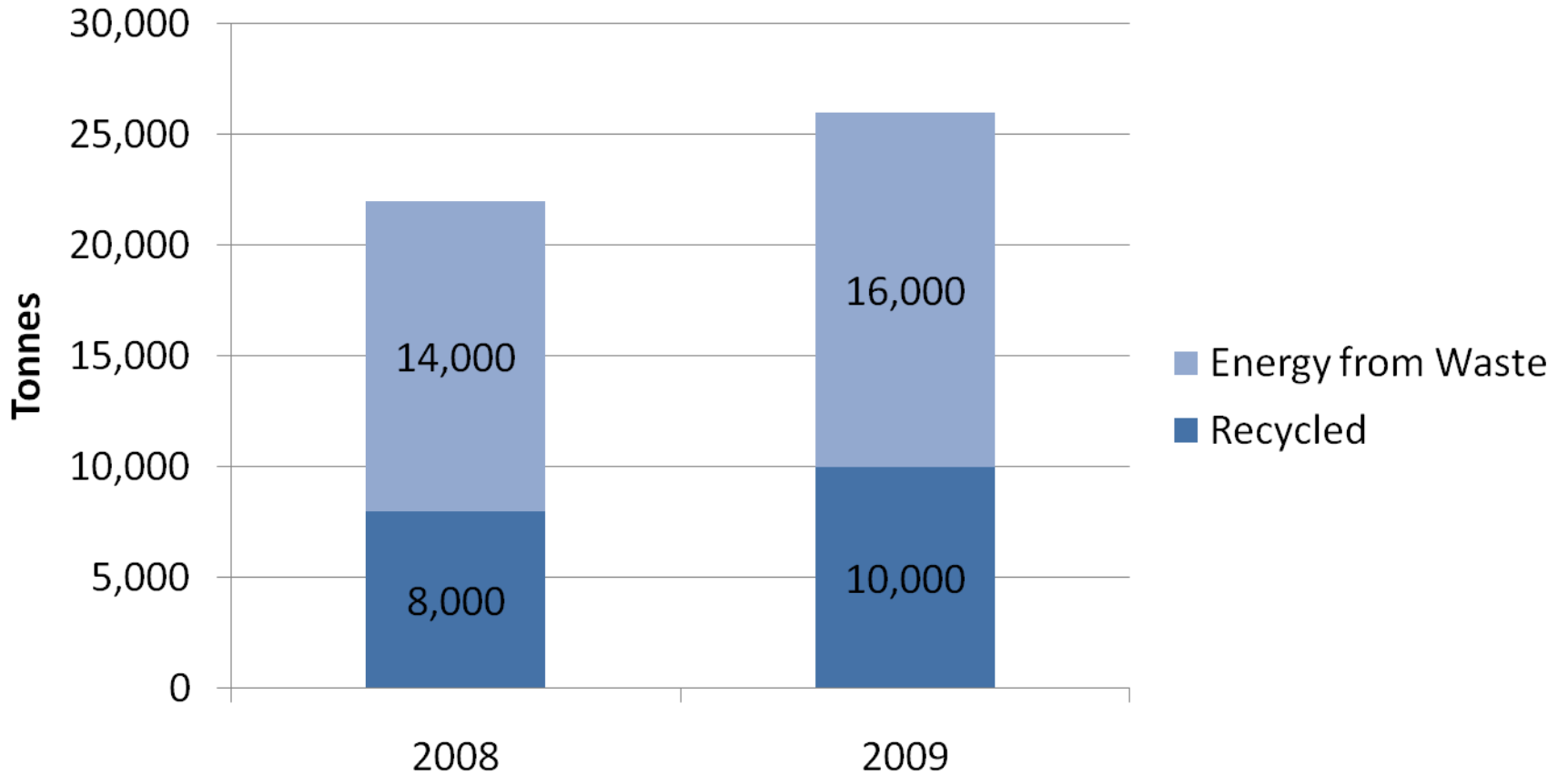
Carpet Waste Flows

CARPET RECYCLING UK
MANUFACTURING **USE**

DISPOSAL AND RECOVERY



Recycling Rates



Policy Drivers

Transition to a low-carbon economy

Landfill diversion targets for local authorities

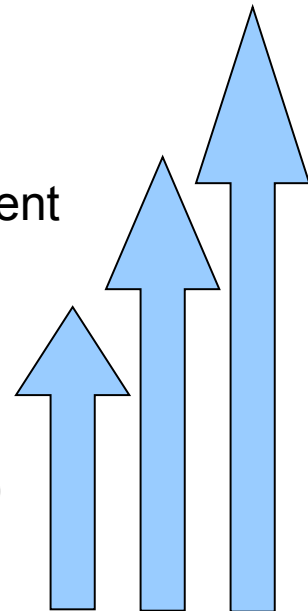
Landfill tax escalator

“Halving Waste to Landfill by 2012” Construction Industry Commitment

Product Level – producer responsibility & retailer take-back

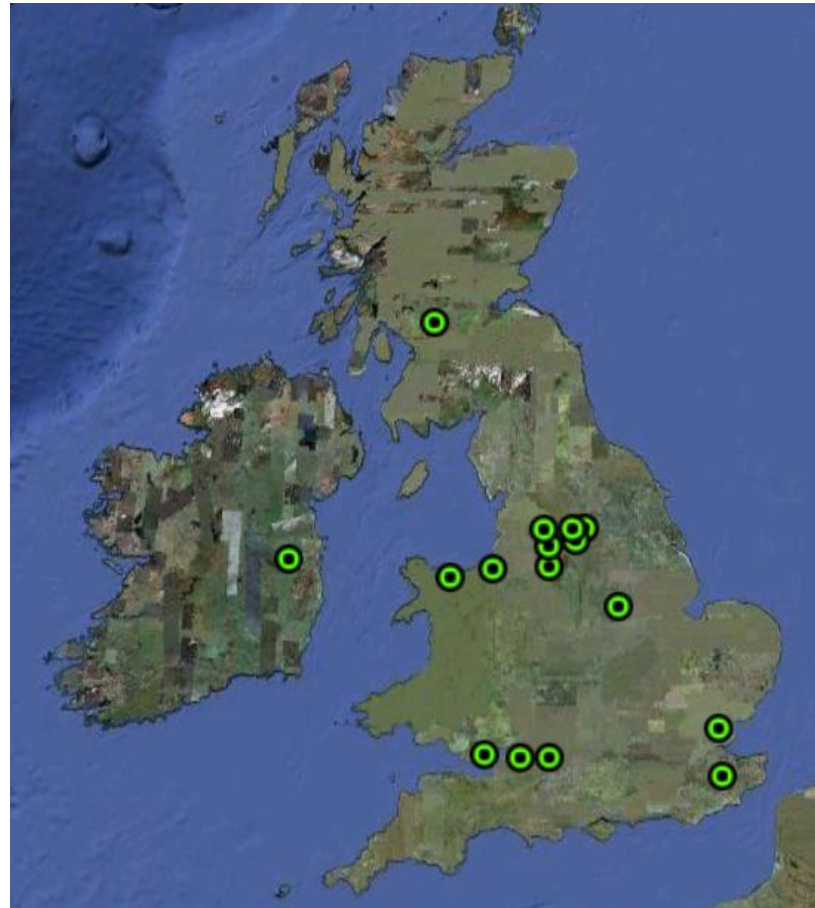
DEFRA consultation on landfill ban for textiles – March 2010

Flooring Resource Efficiency Plan – WRAP/BRE funded - Sep 2010



16 Specialist Carpet Recyclers

- more outlets
needed



OUTLETS, OUTLETS, OUTLETS



Outlets for wool-rich carpet waste



Our work:

- Trialling fibres as additives to large volumes of horticultural products; working with regulator
- Work with members on pulling fibres for nonwovens

Case Study: Penthouse Carpets – Anglo Recycling: Mayfield underlay

Raw material:

- 600 tonnes of wool and hessian top cloth and carpet edge trims from manufacturing process

Result:

- Mayfield underlay, recycled top – cloth - sole fibre source

100% recycled underlay, fabricated entirely from Penthouse wool rich carpet waste, with rubber backing from recycled tyres



Outlets for synthetic carpet

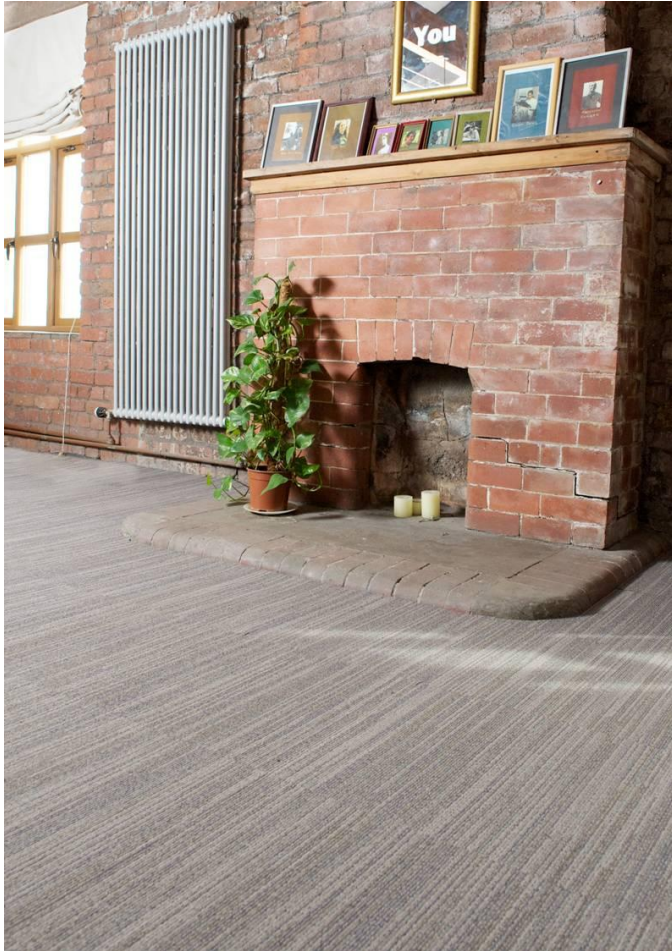


Our work:

- Commissioned work funded by Envirolink Northwest to conduct trials on post-consumer PP carpet
- Nylon recyclate from carpets accepted for engineering compounds



Outlets for Carpet Tiles



Recovery options:

- Carpet Tile Reuse
- Bitumen recovery for use in roadstone
- Recovery of nylon fibre
- Energy from Waste

Our work:

- **Helped to increase carpet tile processing into EfW**
- **Worked to recover Bitumen value**
- **Recovery of nylon fibre**

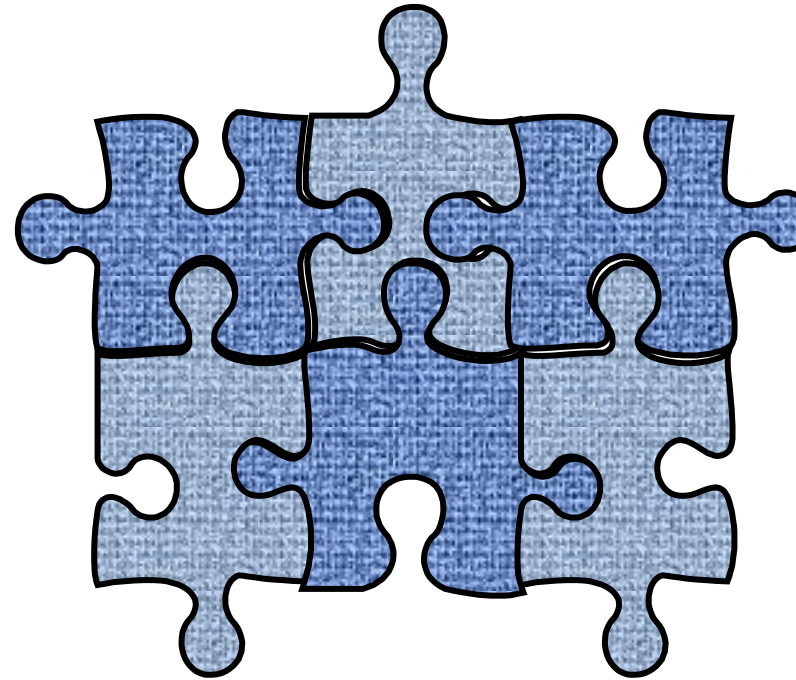
Meet the recycler :



- Contracts with local authorities across South West
- Additional containers sited at HWRCs
- Deliver, gate-fee to tip
- Sorted, shredded, dust extracted and baled
- Sold as fibre product

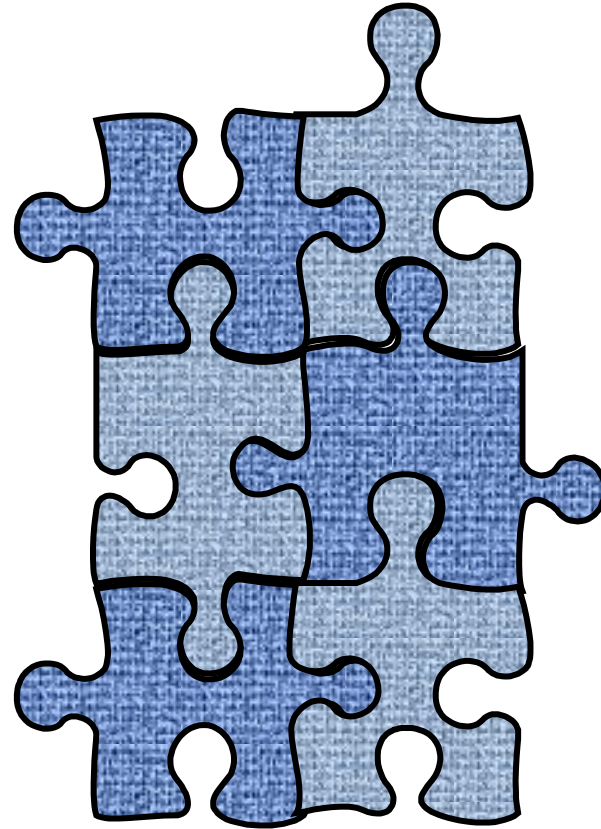
Pieces of the jigsaw we have

- Residential carpet collection and sorting
- End use for mixed synthetic fibre
- Energy from Waste
- Polymer reprocessing of event carpet
- Carpet Tile reuse



Pieces of the jigsaw we still need

- Wool value in agriculture and horticulture to be approved by EA
- Design for recyclability– fewer blends, simpler composites, bio based material e.g Reed carpet
- Collection system for commercial carpets and tiles
- Fully resourced stakeholder body



More members

More recycling outlets

25% landfill diversion by 2015

- Stretch goal
- Many pieces of the jigsaw are in place
- Many outlets in development
- Joint supply chain commitment required to make it happen

We invite you to join our effort





www.carpetrecyclinguk.com

