

CARPET RECYCLING UK

recovering carpet value

Carpet Recycling E-News

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EVENTS:

PP Recovery Seminar

15th February 2010, Warrington, Cheshire

Carpet Recycling Seminar

3rd March 2010, Ecobuild, Earls Court

Annual Conference

Carpet Recycling UK, 10th June 2010

2009: Our Achievements

- Assisted manufacturers to divert wastes from landfill to recycling /EfW achieving environmental benefits & cost savings of over £85,000 for members
- Specialist carpet re-use, recycling & EfW outlets expanded from 4 to 16
 - Accessed £40,000 external public funding to research opportunities for pp recovery & wool based carpet recyclates
- Increased membership from 16 to 41 companies across the carpet value chain and in waste recovery
- Lobbying of DEFRA & WRAP resulted in acceptance of the need for support to the carpet industry to increase recycling rate
 - Accepted lead role in the Flooring Resource Efficiency Plan for development of the carpet and carpet tile sector Material Action Plans
 - Gained acceptance of nylon recyclate from post consumer carpets as feedstock suitable for European engineering plastics
 - Received Environment Agency exemptions for use of wool cropper dust in container growing media & for synthetic shred for equestrian surfaces.

Looking ahead to 2010

Carpet Recycling UK begins the year on a firm footing having made significant progress in 2009 towards our aims - see opposite for a list of our achievements. We hope that more major operators will now join those already supporting our association, and by doing so be part of an industry-wide effort to drive forward innovation and development in waste reduction. Download membership information and form at: www.carpetrecyclinguk.com/home.html

PRODUCT: High value output from PP recovery

New research has demonstrated that polypropylene carpet waste can be recycled into good quality pellet worth up to £500/ tonne, more than twice the value of other output produced from carpet waste to date. Results from recent trials undertaken by Axion Consulting have shown that extruded polymer pellet from post consumer carpet could be suitable for low to medium grade injection moulded applications and post industrial carpet for higher grade end uses. This could be a vital step forward in developing a commercial basis for the growth of the carpet recycling sector in the UK. Further testing is now needed to determine commercial viability as Kate Chappell CEO explains : "This study shows there is great potential to reclaim valuable material from carpet waste and re-use it in new products in a variety of end markets. We are actively pursuing fresh sources of funding to take this exciting breakthrough to new levels."

Two dissemination events are to be held to provide full details of trial results:

- Envirolink Northwest seminar, 15th February in Warrington, Cheshire
- Carpet Recycling UK seminar, 3rd March at Ecobuild Conference, London.

Read full story with event details at www.carpetrecyclinguk.com/news.html



Test bars produced from post consumer PP carpet in trials

POLICY: National Action Plan takes shape

The key elements likely to form the basis of the industry-backed Carpet Material Action Plan (MAP) due to be published in March are now emerging. The plan looks likely to include voluntary agreements and targets which have been used by other industries to meet waste reduction targets. The introduction of Flooring Recovery Notes offering additional payments for carpet recycled, as well as backmarking for identification of carpet waste also seem likely to be included in the MAP. Also under discussion is the extension of WRAP's remit to include carpet recycling, which could make public funds available for end market development for carpet recyclate.

Read more in a MAP briefing note at www.carpetrecyclinguk.com/resources.html

Our Targets for 2010

- Increase recycling rate to 15000 tpa
- Increase re-use, recycling & EfW outlets to 30
- Facilitate industry-government voluntary agreement on landfill diversion
- Continue self-funded trials on end market development and optimisation
- Carry out trials to determine best collection logistics
- Increase membership to achieve financial sustainability
- Leverage in additional public funding to support technical work on end market development

Read how these achievements and targets will benefit our members at www.carpetrecyclinguk.com/home.html

NEW RESOURCES ONLINE

CASE STUDY:

Reflex Polymers

Post consumer carpet trial with Hartlepool based Reflex Polymers, a plastics reprocessing company
www.carpetrecyclinguk.com/resources.html

Kenny Skip Hire

Trial conducted with Kenny Skip Hire to indicate volumes of flooring waste as part of the residual waste to landfill through skip hire companies

www.carpetrecyclinguk.com/resources.html

BRIEFING : Carpet Recycling UK Lobbying Positions

An information paper outlining Carpet Recycling UK's priority areas for lobbying activity

www.carpetrecyclinguk.com/resources.html



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OUTLET: New energy recovery option onstream

Mid UK Recycling in Lincolnshire have recently developed technology and handling capabilities for bulky and difficult wastes, and are now able to recycle carpets for energy recovery and reuse. Carpets and carpet tiles are difficult wastes to size reduce for alternative fuel uses, but they do have a good calorific value. A system has been devised to handle all types of carpets, including bitumen backed tiles, and palletised loads of carpet tiles can now be accepted from the construction and production wastes sector, as well as domestic carpets and underlay which have been segregated out and kept dry at civic amenity sites. For further information contact Chris Mountain on 01400 275718 or email chrism@midukrecycling.co.uk
Read more at www.carpetrecyclinguk/news.html

EQUIPMENT: Sellers introduce pile removal machine

Sellers Engineering of Huddersfield have introduced new machinery capable of pile removal from carpets which will enable valuable pile fibres to be recovered and recycled with low levels of contamination. The fibres could then be recovered into engineering resins for plastics moulding, and the carpet backing carcass can also be size reduced and recycled. For further information email Tony Shackleton admin@sellersengineers.com
Read more at www.carpetrecyclinguk/news.html

EQUIPMENT: Greenback carpet shred virtually dust-free

Greenback Recycling, a founder member of Carpet Recycling UK, has recently installed technology to reduce fines and can now produce an improved 25mm shred which is almost dust free. This material will open up new opportunities for equestrian surfaces as well as in other end products, such as for insulation and agricultural uses. The recovered fines could also be suitable as a replacement filler in new latex applications bringing the cradle to cradle goal for carpets a step closer.
Read more at www.carpetrecyclinguk/news.html

TRIALS: Pierret cutting success

Recent trials organised for Carpet Recycling UK by Border Technologies have overcome one of the challenges to recycling bitumen backed carpet tiles by demonstrating a process for chopping them to a size suitable for bitumen recovery. Using two Pierret guillotines, they were able to achieve high volume cutting of wastes down to a 10mm size which is expected to be suitable for incorporation into roadstone applications. It is also possible to use this technique on tile carcasses after pile recovery. Read more at www.carpetrecyclinguk/news.html
View a video of tile cutting at www.carpetrecyclinguk/resources.html

EVENT: Carpet Recycling Seminar @ Ecobuild - 3rd March

Join us at Ecobuild, the worlds biggest event for sustainable design, where as well as exhibiting, we'll be holding a full day fringe event covering all the latest in carpet recycling policy and practice. Sessions include:

- Polymer Recovery from PP carpet, Axion Recycling
- Global Trends in Recyclable Tile Backings, Bill McWhirter
- Meet the Buyer networking - Plastics
- Benefits of Carpet Tile Reuse, Carpet Tile ReUse Network
- Specification Standards for Sustainable Carpet, Milliken Contract
- Meet the Policymaker - Defra Clinic
- Wool-rich Carpets or Rich-wool Carpets, Brintons Carpets

See the full programme at www.carpetrecyclinguk/news.html

see us at the ecobuild fringe
tuesday 02 - thursday 04 march 2010
www.ecobuild.co.uk/fringe

fringe