



Illinois Carpet Recycling Stakeholder Group (ICRSG)

Minutes
December 10, 2019 8:00 – 9:00 AM CST

Introduction of Participants

Nick Fiore, CLEAR & Circular Polymers
Joe Foye, Mohawk Industries
James Jennings, Illinois EPA
Julie Manley, Carpet America Recovery Effort (CARE)
Eric Nelson, Interface
Bob Peoples, Carpet America Recovery Effort (CARE)
Louis Renbaum, DC Foam
Jenn Stowe, Carpet & Rug Institute
Mike Thomson, ThomsonWeir
Kasey Wakefield, Kruse Carpet Recycling
Marta Keane, Will County
Dave Van Vooren, Solid Waste Agency of Northern Cook County

National and California EPR Update presented by Bob Peoples, CARE

Bob Peoples provided an overview of the current market conditions affecting carpet recycling.

- The impact of oil had been on an increasing trajectory towards the generally recognized price of \$80-85/barrel for a competitive market for recycled carpet commodities. Unfortunately, the price of oil collapsed and is now closer to ~\$50/barrel. This will lower the cost of virgin material, increasing challenges for recycled materials.
- China's National Sword Program shutdown 95% of the flow of recycled materials into the country. As a result, there is increased emphasis and competitive pressure on waste plastic in the US. Estimations are that it will take 5-10 years for the market to adjust accordingly.
- Transportation cost has doubled over the past 12-18 months due to an increasing demand for goods, reduction in drivers due to retirements, and impact from laws requiring digital driver logs.
- New technologies are in development utilizing post-consumer carpet materials. CARE continues to support process and product development as well as marketing of such products.
- There is a new polyol plant using PET depolymerization technology in Dalton, GA. The market needs to gain traction before they can explore expanding to triple the output.
- The CARE booth at Greenbuild generated a good audience including those learning about products made from post-consumer carpet. It is too early to project the impact from Greenbuild (Nov 2018), but leads continue to be followed.
- The demand for polyurethane foam padding has been gaining traction with prices increasing. This helps recyclers manage the challenging financials of carpet recycling.

- California continues to work towards a 24% recycling rate. Subsidies have been modified to stimulate growth, and outlets are still sought for the goods.
- Fiberon (in Minnesota) sold their decking business which was a major user of PET carpet fiber. The plant is being retooled for another product which is presumably incorporating PET from post-consumer carpet. This transition and the time it will take to bring a new product online and develop market traction has impacted the demand for PET fiber.
- Aquafil's new nylon 6 plant is not yet up to design capacity as they are currently working through process issues. [Update Note: the recent open house for the new plant in Phoenix shows good progress is being made.]
- Nick and Louis shared their Midwest recycler's perspective. Both spoke to the challenge of a lack of processors in the region and transportation costs. As freight increases, it could impact the profitability of nylon 6.6 which is still collected and sorted in IL. The pad demand has helped absorb costs.
- The externalities of oil price, transportation cost, and global regulations, combined with process/product development and market development create a challenging environment for carpet recycling that is more expansive and complex than a financial resolution could address.

Illinois Carpet Diversion Strategy & Update presented by Julie Manley, CARE (see attached slides)

Outreach

- Guidance on carpet collectors/recyclers servicing IL was distributed Dec 2017 with the intention for local communities to update content on their websites.
- In Nov 2018, CARE developed and distributed a magnet containing similar outlet information to those stopping at the CARE booth at Greenbuild. The magnet was intended to be a readily available resource for property management, architects, and demo contractors. The remaining magnets will be distributed to relevant contacts in IL.
- CARE offered complimentary Greenbuild Expo passes (>\$100 value) to property management companies, recyclers, demo contractors, manufacturers of recycled products, other targeted manufacturers, as well as the IL Carpet Recovery Stakeholder Group.
- Several property management companies were unaware of recycling opportunities and were interested in exploring implementation. This reinforces the importance of focusing on expanding education and outreach to this target audience.

Collection

- CARE supported Greenbuild and Freeman staff to carpet and pad from landfill from the Greenbuild Expo. The limited amount of scrap material was collected and sent to a waste-to-energy facility (per info provided by Freeman).
- In Aug 2018, CARE toured DC Foam in Northlake, IL to better understand the operation, challenges, and opportunities, enabling CARE to direct opportunities more efficiently when possible. CARE is willing to do the same with other collectors/recyclers in the region as well.
- Opportunities were identified at Greenbuild to explore expanded collection. These are still in exploration with the interested parties.

End Markets

- As mentioned above, CARE invited selected IL manufacturers to Greenbuild to learn more about post-consumer carpet materials and utilizing them in production. Some contacts

were made but it is too early to assess impact.

- CARE continues to develop the Double Green environmental label denoting the use of post-consumer carpet material and other recycled content in a finished product. The application process for the label is expected to be open in 2019, providing a method for manufacturers to differentiate their product in the market.

Summarize Outcomes & Actions

- Continue to seek to add collectors in Kendall, Gundy, and Will counties.
- Continue education and outreach to property management organizations
- Encourage end market development.
- Continue follow up from Greenbuild
- Seek stakeholder support
 - Update websites
 - Contact with retailers/property management/recyclers/demo contractors
 - Marta Keane and Dave Van Vooren were willing to meet with CARE. Meetings will be arranged for January.
- Mike Thomson made the observation that with the Democratic supermajority there may be renewed interest to revisit legislative mandated recycling.

Next Meeting Date

Targeting the end of March/early April 2019. A final date and meeting notice will be forthcoming.

IL CARPET RECOVERY STAKEHOLDER GROUP

December 10, 2018 8:00 AM – 9:00 AM CST

Join the meeting via web or phone

Web meeting:

<https://guidinggreen.webex.com/guidinggreen/j.php?MTID=mdddb027db4a07f0237adc4918ddcf54c>

Join by phone: 1-650-479-3208

Meeting number (access code): 732 546 599

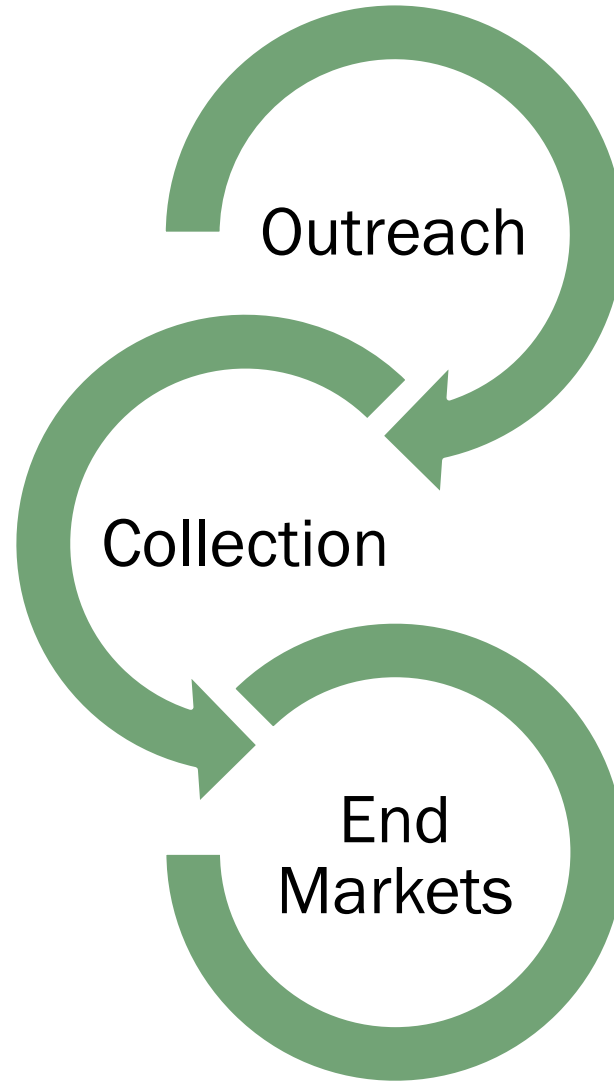


Agenda

Agenda Item	Lead	Time
Introduction of Participants	All	8:00 AM
National and California EPR Update	Bob Peoples, Executive Director, CARE	8:05 AM – 8:20 AM
Illinois Carpet Diversion Strategy & Update <ul style="list-style-type: none"> • Outreach • Collection • End Markets 	Julie Manley, Program Manager, CARE	8:20 AM – 8:45 AM
Summarize Outcomes & Actions	All	8:40 AM – 8:55 AM
Next Meeting Date	Julie Manley, Program Manager, CARE	8:55 AM – 9:00 AM
Adjourn Meeting		9:00 AM



IL Carpet Recovery Strategy



Review from June 2018 Meeting

Outreach

- Leveraging Greenbuild 2018



Collection

- 1 new business exploring carpet recycling
- Striving for 100% diversion from Greenbuild
- Working with recyclers/collectors to create opportunities to increase collection.



- ## End Products
- Engaging IL-based manufacturers to evaluate recycled post-consumer carpet



Outreach

**Updated Collector/Recycler Information
Dec 2017
Target: Local community websites**

**Recycling Outlets Magnet
Nov 2018
Target: IL prop mgmt/architects/demo contractors**



Guidance on Carpet and Carpet T

Mail or Drop-Off Program		Phone	Details &c
Drop Off	DC Foam Recycle, Inc. 150 N. Railroad Ave, Northlake, IL 60164 Attn: Shaun Israel	(312) 882-0110	Carpet Only: Carpet must be nylon 6'6' inquire and submit a sample. No drop of there is no fee.
Drop off	Repurposed Materials 550 N. Hobbie Ave., Kankakee, IL 60901	(303) 321-1471	Carpet Tile Only: No minimum quantity. steel, useable lumber/wood, anything tha about possible arrangements for pick up. 5:00pm
Mail	CLEAR, 3520 16th St., Zion, IL 60099	(414) 899-3060	Carpet Only: LEED compliant jobs over
Mail	Interface	(888) 733-6873	Carpet Tile Only: Any vinyl backed carp charges may be incurred for less than tru
Mail	Mannington	(800) 241-2262 x 6211	Carpet Tile Only: Current Mannington c tile with new Mannington flooring has n
Mail	Milliken	(800) 824-2246	Carpet or Carpet Tile: Milliken's landfill regardless of the manufacturer. We follo recycle, waste to energy). Fees are asses: samples may be required. Other requiren Landfill Diversion Quote form: http://www.US/sustainability/Documents/Milliken_C_Form.pdf
Mail	Mohawk	(877) 373-2925	Carpet or Carpet Tile: Any type of carpe assessed on a project basis. Call or email shipping within 24-48 hours. Material n

EXCERPT

Carpet Recycling Outlets Serving Illinois

Carpet	Carpet Tile
DC Foam Recycle, Inc. I ✓ Nylon 6, 6 only Also accepts most carpet pad www.recyclefoam.com (312) 882-0110	Repurposed Materials I ✓ Also accepts other materials Inquire about pick-up www.repurposedmaterialsinc.com (303) 321-1471
CLEAR I ✓ >5,000 SF www.landfillclear.com (908) 899-3060 Email: nick.fiore@landfillclear.com	Interface F ✓ Vinyl backed carpet tile - any manufacturer. www.interface.com Email: reentry@interface.com (888) 733-6873
Legend \$ Fees assessed F Freight charge may apply I Illinois-based company ✓ Prior authorization required	Mannington ✓ Current customer replacing PVC backed carpet tile with new Mannington flooring. www.manningtoncommercial.com (800) 241-2262 x 6211
Kruse Carpet Recycling \$ F ✓ Any carpet or carpet tile – any manufacturer. krusecarpetrecycling.com (317) 337-1950	
Milliken & Company \$ F ✓ Any carpet or carpet tile – any manufacturer. www.millikencarpet.com Email: millikencarpet@milliken.com (800) 824-2246	
Mohawk Industries \$ F ✓ Any carpet or carpet tile – any manufacturer. www.mohawkgroup.com Email: reclaim@mohawkind.com (877) 373-2925	
Shaw Industries \$ F ✓ ≥500 yd ² ; EcoWorx (\$) or commercial carpet replaced with Shaw product (\$)	

Collection

McCormick Place

- 2.6 million ft² exhibit space
- ~1 trade show/week
 - 49 shows in 2014 per Crain's Chicago Business March 25, 2015
- Collaborated with Greenbuild Expo & Freeman to facilitate carpet and pad diversion from landfill – Nov 2018
 - Including scrap



Total carpet & pad scrap from Greenbuild.
Sent to waste to energy.
Picture credit: VP of Sustainability, Freeman
11/20/2018

End Markets

- Invited to Greenbuild
 - Recycled product mfrs
 - Target industry mfrs
- Double Green certification process in development

Target Industry Manufacturers

Engineered Resins	Carpet Fiber	Carpet Backing
Insulation	Composite sheets (signage)	Erosion Control
Flooring underlayment	Mats	Wheel stops
Ramps	Pavers	



Potential to meet requirements for:



Actions

- Seek to add collectors in Kendall, Grundy, and Will counties
- Educate/Outreach to property management organizations
- Encourage end market development
- Continue Greenbuild follow-up
- Support from stakeholders
 - Website updates
 - Identification of contacts for outreach
 - Retailers/property management/recyclers/demo contractors

