

MARCH 2018

Interface | Making Closed Loop Carpet a Reality

MIKHAIL DAVIS
DIRECTOR OF RESTORATIVE ENTERPRISE



1973



INTERFACE[®] FLOORING SYSTEMS

BY
CARPETS INTERNATIONAL-GEORGIA, INC.

Interface Profile

Founded in 1973

HQ in Atlanta, Georgia

Publically Traded: TILE

\$1B Annual Revenues

3,600 Employees in 110 Count

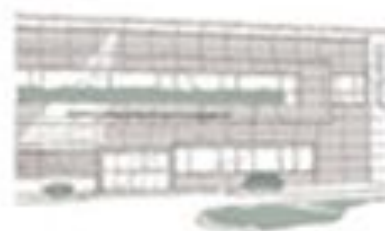
\$70M InterfaceSERVICES



**1. LaGrange & West Point,
Georgia USA**



**2. Scherpenzeel,
The Netherlands**



3. Taicang, China

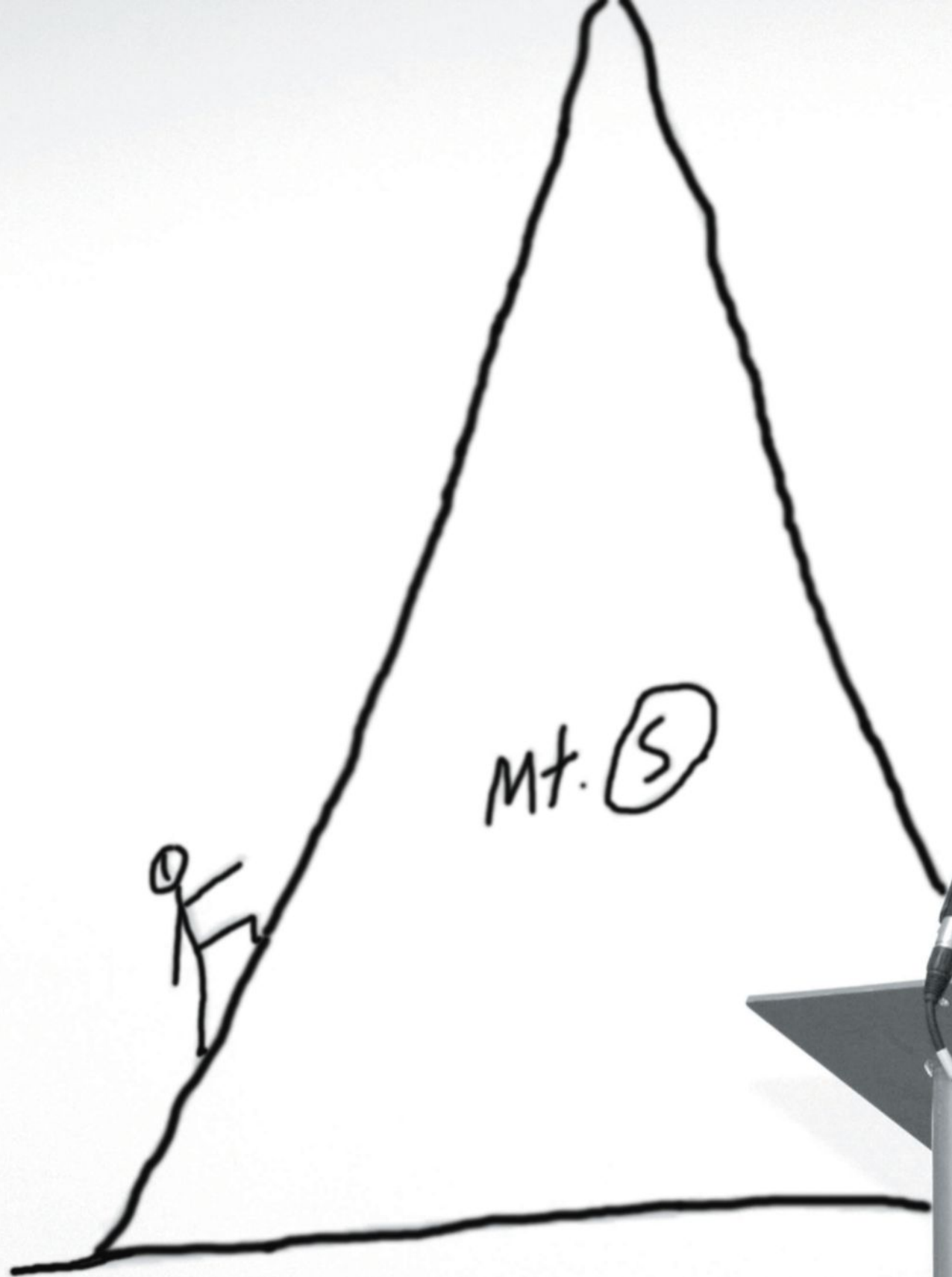


4. Chonburi, Thailand



5. Sydney, Australia

BETTER WAY





mission

ØMISSION ZERO

eliminate negative impact on the
environment by 2020

SUSTAINABILITY OVERVIEW

2016 Sustainability Highlights - EcoMetrics

Energy efficiency has improved by **43%** since 1996



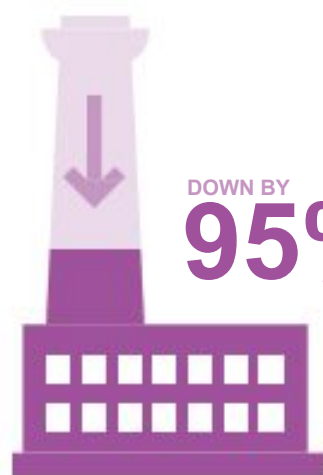
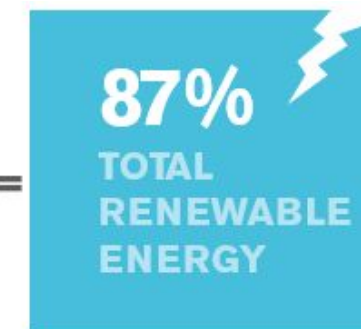
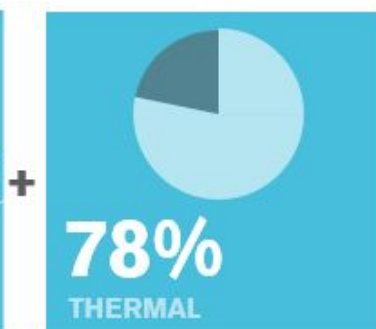
The carbon footprint of our carpet is down since 1994



Waste is down!
Total discarded materials down **46%**



Use of renewable energy increases from **84%** to **87%** at manufacturing facilities



GHG emissions intensity from manufacturing facilities continues to decrease



58% of total raw materials used to make carpet were from either recycled or bio-based sources, up 8% points from last year



Every year, 4 billion lbs. of carpet are sent to landfill
in the U.S



ReENTRY®

turning old carpet into new

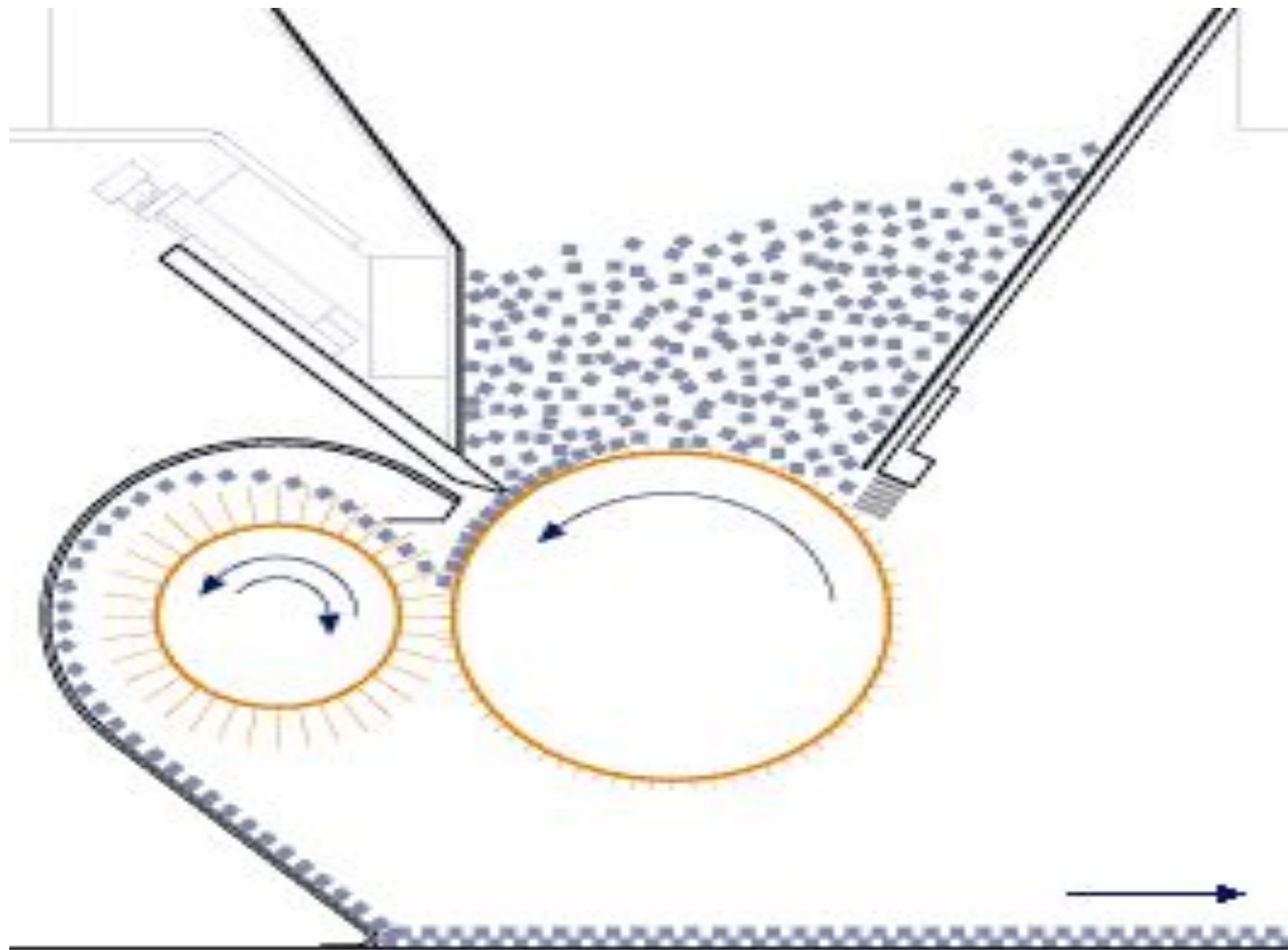
Why ReEntry?

- Taking responsibility for 40 years worth of products on the floor
- Fulfilling a promise to our customers to help them make the right decision about end of life issues
- Decoupling our supply chain from oil

**Cool Blue: closing the loop
on carpet tile backing**

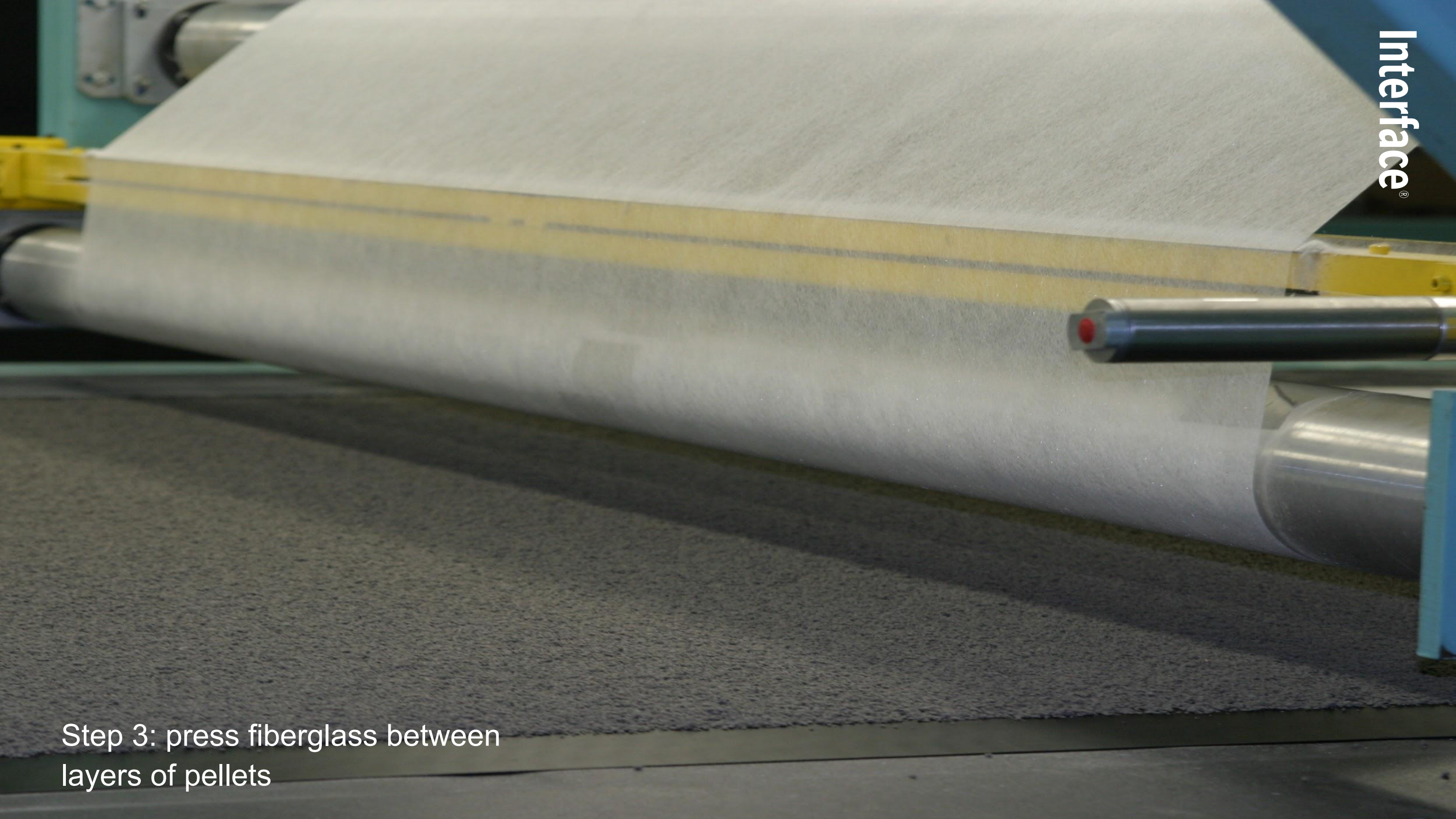
Step 1: turn old backing into
plastic pellets





Step 2: scatter pellets evenly on conveyor belt

Step 3: press fiberglass between
layers of pellets



Step 4: melt pellets into sheet
of GlasBacRE



CLOSED-LOOP PROCESS

Backing-to-backing is happening
Yarn-to-yarn is more difficult



FOR IMMEDIATE RELEASE
October 14, 2017

Contact

Heidi Sanborn, Executive Director
National Stewardship Action Council
(916) 217-1109
Heidi@nsaction.us

Annie Pham
Office of Assemblymember Kansen Chu –
25th District
State Capitol, Room 3126
Phone: 916-319-2025
Annie.Pham@asm.ca.gov

**GOVERNOR BROWN SIGNS AB 1158 TO MAXIMIZE CARPET
RECYCLING, CREATE JOBS, AND HELP CALIFORNIA
REDUCE GREENHOUSE GAS EMISSIONS**

The Carpet Stewardship Program is the First of its Kind in the World

(SACRAMENTO) – Today, California Governor Jerry Brown signed carpet recycling legislation that will help California reach its target of emitting 40 percent fewer greenhouse emissions by 2030. The bill, [AB 1158](#), which was written by [Assemblymember Kansen Chu](#) (D-Milpitas) and sponsored by the [National Stewardship Action Council \(NSAC\)](#), was crafted to protect consumers and the environment by requiring manufacturers to implement a stewardship program that sets a carpet recycling goal of 24 percent by 2020.

1994



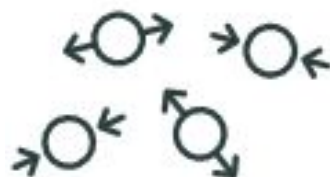
Smokestacks



Take Make Waste



Petroleum
intensive products



Disconnected
supply chain

NOW-2020



Factories to Zero



Recycled, closed
loop materials



Low carbon
products



Sustainable
supply chain

WHAT'S NEXT...



Factories as Forests



Products from
dispersed materials



Products that
sequester carbon



Supply chain that
benefits all life

MODELS FOR RESTORATIVE ENTERPRISE

Net-Works™

Toward a circular and inclusive supply chain.

Net-Works™ is an innovative, cross-segment initiative designed to tackle the growing environmental problem of discarded fishing nets in some of the world's poorest coastal communities.

At the same time, it supports Interface's Mission Zero™ goal to source 100% recycled material for its Modular Carpet Tile.

Collection Levels:

To date, **150 metric tons** (313,056 lbs) discarded nets collected. Enough to go around the world twice. Through the project we have now been able to provide **1,500** families with access to finance and **62,000** people are now enjoying a healthier environment.

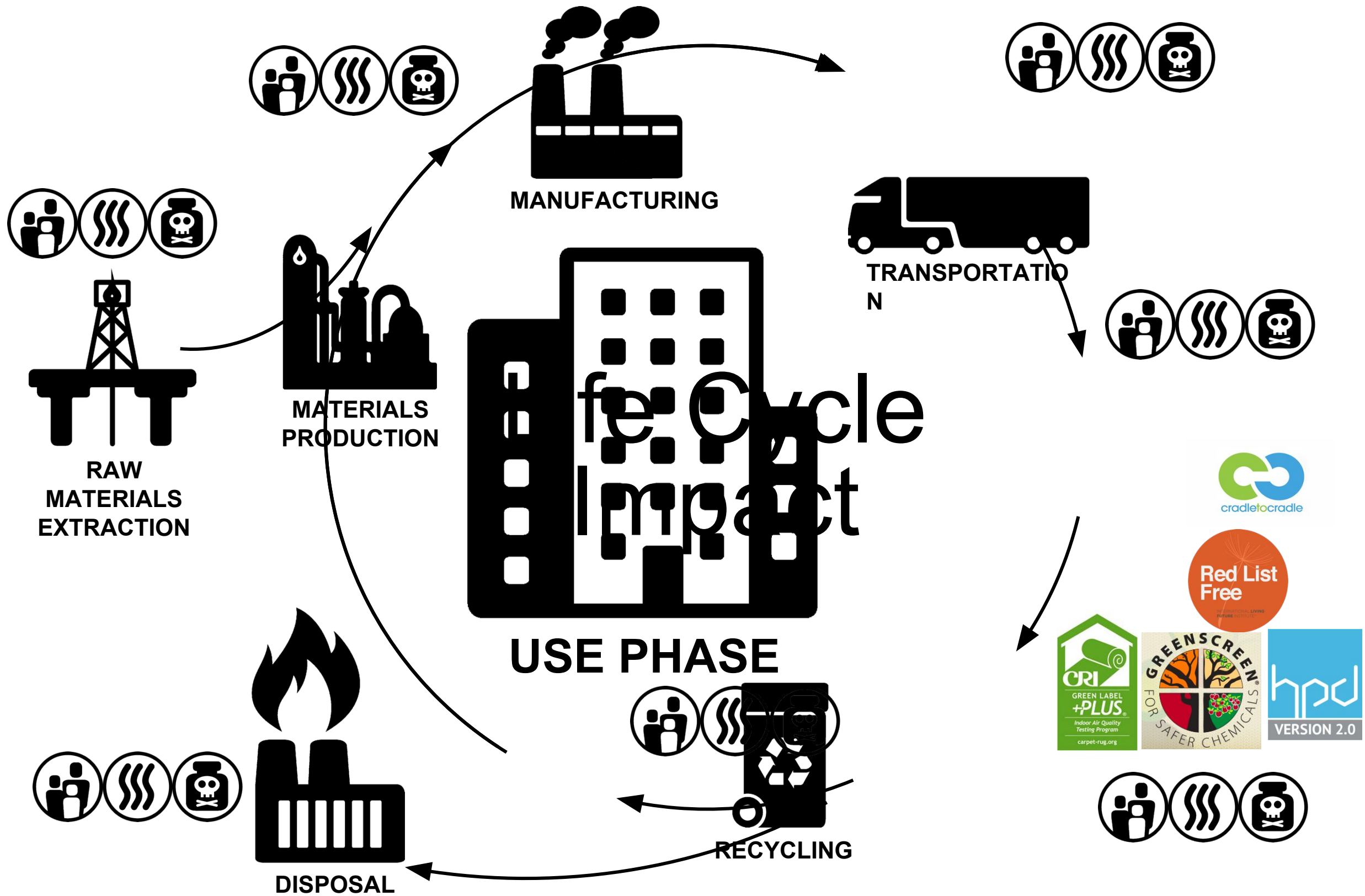
Net-Works™ brings Interface one step closer to its goal of going beyond sustainability to become a truly restorative enterprise.

Going beyond sustainability to
become a truly **restorative** enterprise

www.net-works.com



Q & A



A quick quiz on Materials and Impact

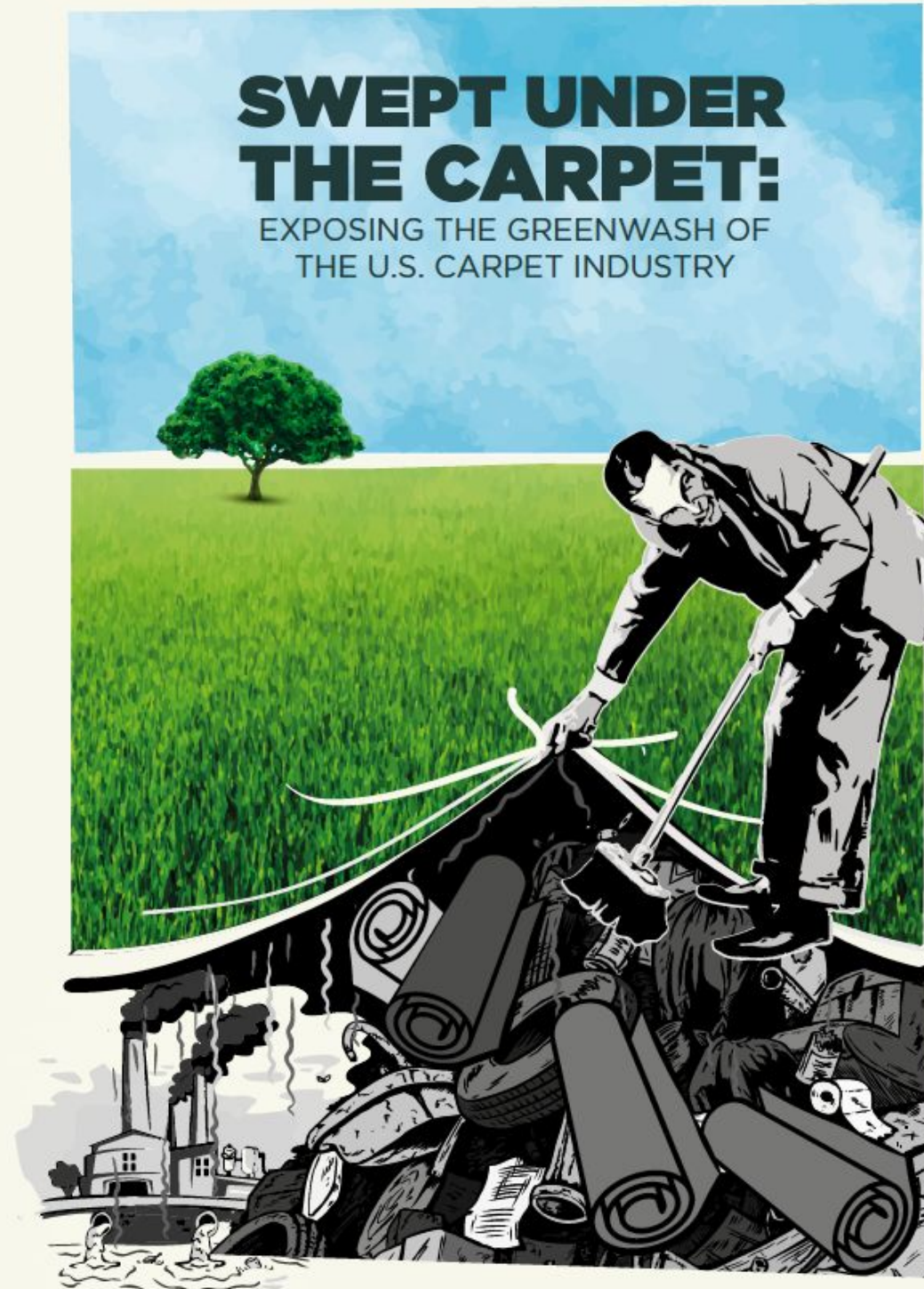
Question 2: C2C Silver

Products with Cradle to Cradle (C2C) certification at the Silver level are required to:

- a. Publicly disclose product ingredients
- b. Contain at least 10% recycled content
- c. Be managed in a closed loop (“cradle-to-cradle”) system
- d. Use renewable energy in manufacturing
- e. All of the above
- f. None of the above

5%!





Stop Shaw from Carpeting our World with Toxics!



that are not regulated or monitored. **These polluting emissions can be lethal, causing cancer, heart attacks, strokes, asthma, and pulmonary disease.**

We demand that Shaw promote sustainability and a circular economy in the carpet industry by implementing the following recommendations:

- **Invest in better design.** As the largest manufacturer

Join 9,779 signers

57%

Goal: 16,875 signers

To: **Vance D. Bell, CEO Shaw Industries Group, Inc.**

"Shaw has been reneging on its commitment to recycle billions of pounds of carpet waste by closing two carpet recycling facilities in the U.S. and pursuing policies that lead to a greater increase in burning of carpet waste. We demand that your company stop "greenwashing" your commitment to sustainability and actually live up to it by achieving meaningful rates of carpet recycling and ending the practice of burning it."

Name*

Email address*

Country

[Add a comment](#)

SIGN PETITION

A quick quiz on Impact

Question 2: C2C Silver vs. Interface standard products

All standard Interface Americas products are certified to:

- a. Publicly disclose product ingredients ☒ LEED v4 compliant
- b. Contain at least 10% recycled content ☒ at least 66%
- c. Be managed in a closed loop (“cradle-to-cradle”) recycling system ☒ 59%
- d. Use renewable energy in manufacturing ☒ 99%
- e. All of the above
- f. None of the above



Certified Environmental Facts™

Company: Interface

Product: Nylon 6 or Nylon 6,6 on GlasBac

Plant Locations: LaGrange and West Point, GA

Product Specific:

Total Recycled Content	66%
Pre-Consumer	64%
Post-Consumer	2%
Regional Raw Material Sourcing	90%
Carbon Footprint Reduction - Per Sq. Yd. ¹	-28%
2011 (kgCO ₂ eq)	9.12
2015 (kgCO ₂ eq)	6.49
Take Back Recycling Program	<input checked="" type="checkbox"/>
Recyclable ²	57%
Published EPD	<input checked="" type="checkbox"/>
NSF-140 Certification	Gold Certification
Low-Emitting Materials	Green Label Plus

Material Ingredient Reporting Certification:

LEED v4 Compliance Certification	
Option 1 - Manufacturer Inventory ³	<input checked="" type="checkbox"/>
Option 2 - 100% No GreenScreen LT-1	<input type="checkbox"/>
Option 2 - 150% No GreenScreen BM-1	<input type="checkbox"/>
Cradle to Cradle Certification	<input type="checkbox"/>
Level Achieved	
Verified Declare Label	<input type="checkbox"/>
Verified HPD	<input type="checkbox"/>

Manufacturing Specific:

Carbon Emissions Reduction - Facility ⁴	-99%
2011 (total metric tonnes CO ₂ eq):	6,414
2015 (total metric tonnes CO ₂ eq):	17
Carbon Emissions Neutral - Scope 2 Only	<input checked="" type="checkbox"/>
Energy Usage Reduction ⁵	-9%
2011 (total MJ):	218,382,820
2015 (total MJ):	213,388,132
Percent Renewable Energy Usage ⁵	+99%
2011 (total MJ):	90,898,841
2015 (total MJ):	213,096,684
Water Usage Reduction ⁵	-3%
2011 (total gallons):	4,167,938
2015 (total gallons):	4,344,654
Outgoing Waste to Landfill Percent Change ⁵	+16%
2011 (total lbs):	821,380
2015 (total lbs):	1,039,480
Waste Diversion from Landfill	96%
ISO 14001 Certified	<input checked="" type="checkbox"/>
ISO 9001 Certified	<input checked="" type="checkbox"/>

Baseline Year: January 2011 - December 2011

Evaluation Period: January 2015 - December 2015

Certification Number: 16-0247

Certification Period: 9/1/2016 - 8/31/2017

For more information on the

Certified Environmental Facts of this product,

please contact: info@GreenCircleCertified.com.

www.GreenCircleCertified.com

© Copyright 2016 by GreenCircle Certified, LLC

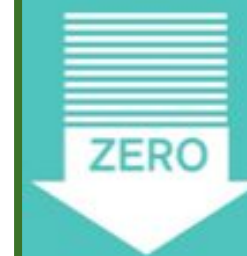
1. Product carbon footprint is based on a product recipe calculated using the sales-weighted average for yarn weight.
2. Percentage indicates internal recyclability. Product may be 100% recycled at end-of-life in certain infrastructures.
3. Percentage compares 2011 versus 2015 metrics benchmarked per square yard of carpet produced.
4. Carbon emissions reduction results include both Scope 1 and Scope 2 emissions. Carbon emissions reductions and total metric tons of CO₂eq calculated using a market-based approach and financial instruments.
5. Includes on-site solar PV generation, on-site landfill gas, purchase of wind RECs and purchase of directed biogas.

*Certification pending.



Product Specific:

Total Recycled Content	80%
Pre-Consumer	65%
Post-Consumer	15%
Regional Raw Material Sourcing	92%
Carbon Footprint Reduction - Per Sq. Yd. ¹	-33%
2011 (kgCO ₂ eq)	6.96
2015 (kgCO ₂ eq)	4.66
Take Back Recycling Program	<input checked="" type="checkbox"/>
Recyclable ²	59%
Closed Loop Product	51%
Published EPD	<input checked="" type="checkbox"/>
NSF-140 Certification	Platinum Certification
Low-Emitting Materials	Green Label Plus



Products to ZERO