



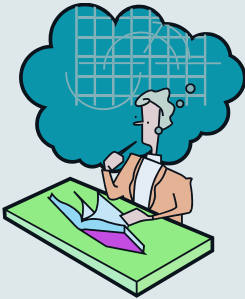
**California Carpet
Stewardship Program**
January 23, 2014

www.calrecycle.ca.gov/carpet

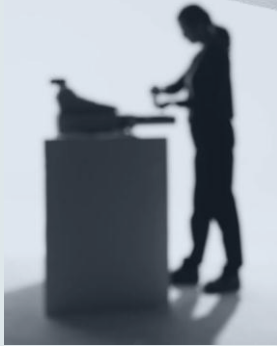
Presentation covers

- What is EPR
- Background on state law ([AB 2398](#))
- Implementation: goals, progress, and trends
- Standards: NSF-140, CalGreen Building Code
- Procurement
- Market Development
- State Grants
- Sample state policy (reference only)
- Contacts (reference only)

What is EPR?



Manufacturers



State gov

Recycling Supports New Products Made with Carpet-Derived Materials



Carpet and Carpet Cushion



Automotive Parts



Boards, Piers, Signs, Decking



Filters, Booms, Absorbents



Reinforced Concrete and Asphalt



Floor Blocks, Wall Tiles

Carpet Recycling (AB 2398)

Signed into law in 2010: three key documents govern program:

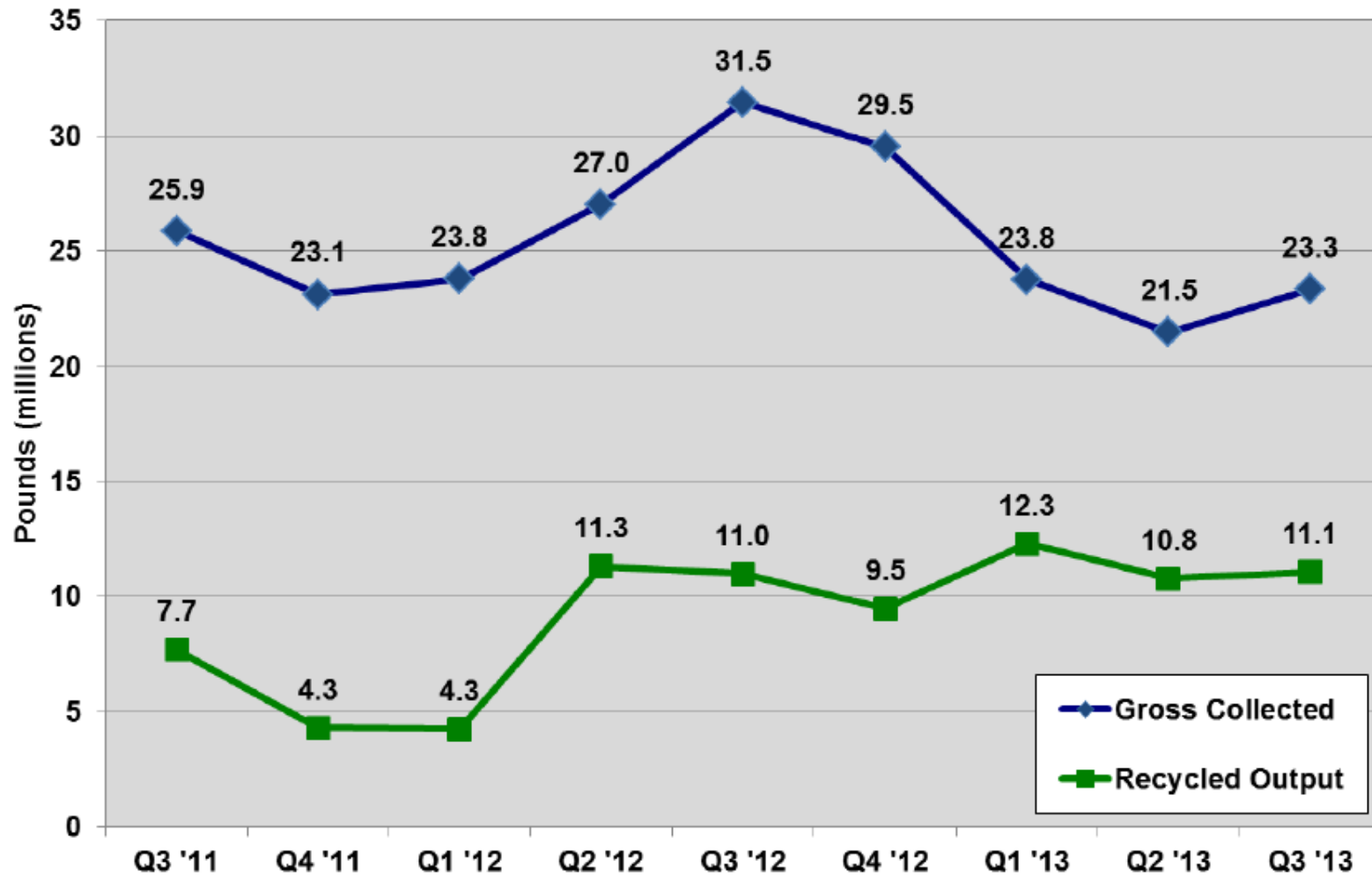
- **Statute** addresses goals, financing, enforcement
- **Regulations** add clarity to Statute
- **Plan**
 - Developed by CARE, the stewardship organization
 - CARE designs and implements program described in plan
 - Submitted plan to CalRecycle, conditionally approved Jan 2012.
 - **Plan version 3.0 approved January 21, 2014** (next Plan update 2016)
- Documents at: www.calrecycle.ca.gov/carpet
(approved plan not yet posted, click here: [Public Notice Docs](#))

Carpet Recycling (AB 2398)

Goals:

- **Statute:** continuous meaningful improvement of diversion from landfills and recycled output
- **Plan 3.0** (Dec 2013, approved Jan 21, 2014)
 - 16% recycled output in 2016
 - 24% recycled output in 2020, assuming certain conditions

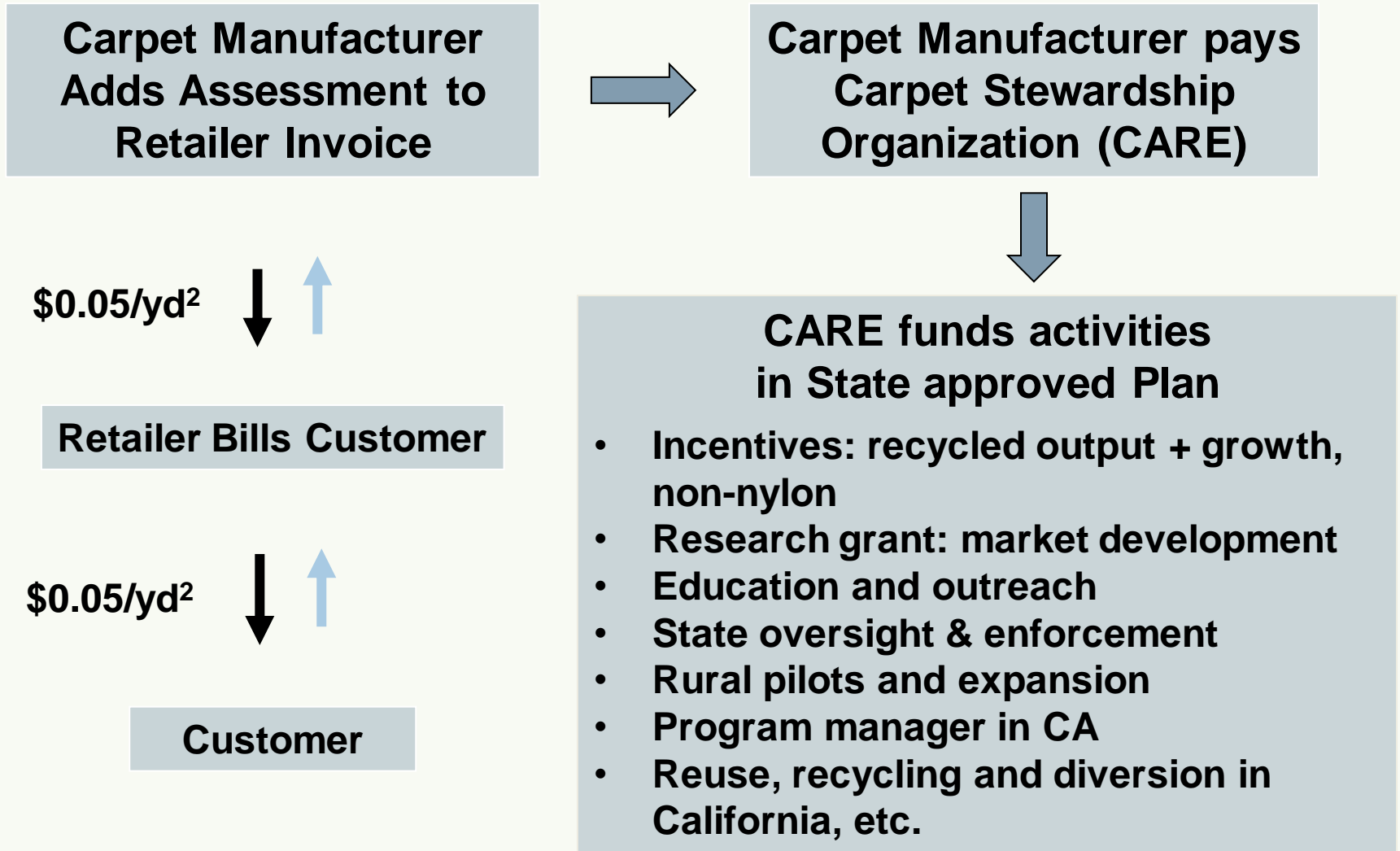
AB 2398 Performance Trends (pounds)



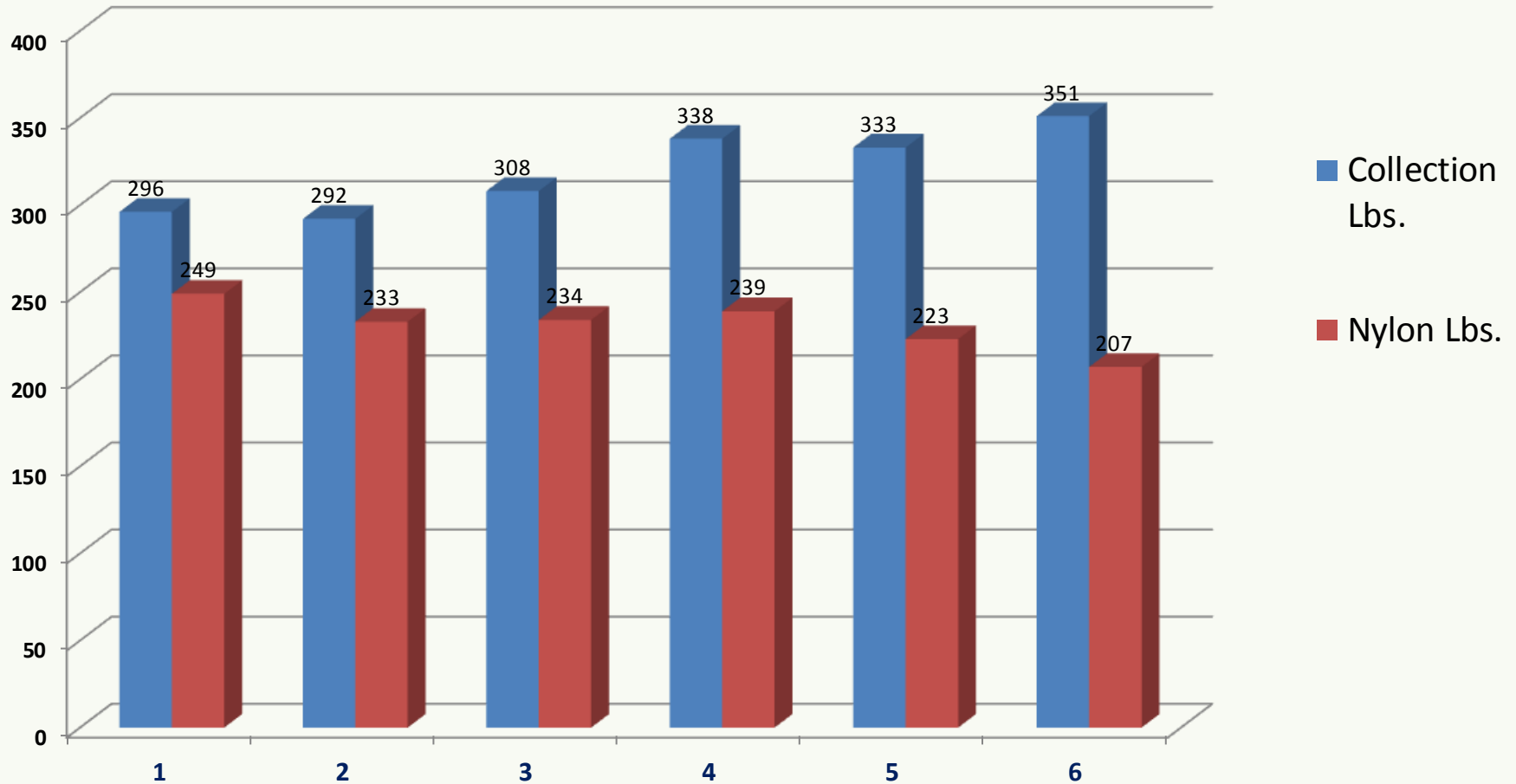
Source: CARE Q3 2013 update



Flow of Funds



NYLON % IN COLLECTION STREAM



CARE conference 2013

Performance Indicators

	(Q3+Q4)	(Q1+Q2)	(Q3+Q4)	(Q1+Q2)
	2011	2012	2012	2013
Recycled Output	6.6%	9.0%	11.3%	12.8%
Payments to processors (Millions)	\$.7	\$.8	\$1.2	\$1.8
Unused funds (estimate in millions of dollars)*	\$1.4	\$3.10	\$3.3	\$4

*Plan v3.0 (Dec 2013) addresses unused funds.

New activities include: CA Program Manager, education, university grant, incentive for non-nylon carpet-derived products, bonus incentive

NSF – 140 Carpet Standard

- Awards points for mandatory and voluntary measures that are used to evaluate six key attributes of carpets:
 - Public Health and Environment
 - Energy and Energy Efficiency
 - Bio-based and Recycled Content
 - Manufacturing
 - Reclamation and End of Life Management.
 - Innovation
- Includes three levels of attainment, silver, gold, and platinum
- Used for commercial carpet
- List of NSF/ANSI 140 carpet at CRI database: www.carpet-rug.org/carpet-and-rug-industry/sustainability/sustainable-carpet/sustainable-carpet-list.cfm

NSF-140 discussion topics (6/2013)

- **Scope:** Include Standards for Both Commercial and Residential Carpet
- **Reclamation:** Revise Formula to account for mnfrs total production of carpet
- **Recyclability:** Require Carpet to be 100% Readily-Recyclable for Platinum Level Standard
- **LCA points:** Avoid double counting points
- **Energy efficiency:** Credit Manufacturers for Reducing Energy Consumption and Greenhouse Gases
- **Bio-based & post-consumer content:** Lower the Weighting Factor of the Bio-based Content; reconsider impacts of coal fly ash (contains silica) in post-consumer content
- **IAQ:** Adopt the California Department of Public Health Standard Method for Indoor Air Quality
 - Include a Reference Exposure Level for caprolactam

California Green Building Standards Code (CALGreen)

- Adopted 2010 [CALGreen](#) –
 - Reduce environmental impacts and cost
 - New construction (residential, non-residential)
 - Section 4.504.3 Carpet systems
 - Testing and product requirements (several options)
 - Carpet cushion – CRI green label program
 - Carpet adhesive

Source: www.calrecycle.ca.gov/Carpet/Buyers.htm#Finding_Carpet

New Grant Opportunities

- Cap-and-trade workshop, CalRecycle, Feb. 6
 - Information on Fiber, Resin, and Glass Grant Program
 - infrastructure for manufacturing products with **recycled content fiber**, resin or glass
 - discuss proposals and criteria
 - Public Notice (agenda, handouts, etc):
 - www.calrecycle.ca.gov/Actions/PublicNoticeDetail.aspx?id=1138&aiid=1039

General Information

» [Find Collectors/Processors](#)

Stewardship Program

- » [Program Overview](#)
- » [Stewardship Plan](#)
- » [Law](#)
- » [Regulations](#)

Stewardship Organization

- » [Carpet America Recovery Effort \(CARE\)](#)
- » [Compliant Manufacturers and Brands List](#)

Carpet Materials Management

Why focus on carpet?

Discarded carpet is one of the 10 most prevalent waste materials in California landfills, comprising about 3.2 percent of waste by volume disposed of in California in 2008. Most carpet is made from nylon and other polymers derived from virgin fossil fuel. Fortunately, numerous products can be manufactured from recycled carpets, including carpet backing and backing components, carpet fiber, carpet underlayment, plastics and engineered materials, and erosion control products.

What is being done?

California is the first state to establish a private-sector designed and managed statewide carpet extended producer responsibility program. This program, started in 2011, follows producer responsibility principles to ensure that over time discarded carpets become a resource for new products in a manner that is sustainably funded and provides jobs for Californians. Several carpet recycling facilities currently operate in California, offering jobs, and producing products and feedstock for products made from recycled carpet.

What can I do?

Find out how Californians are sustainably buying and recycling carpet to keep valuable materials in our economy, and what you can do as well! Click on the links to learn more.

Information For...

Collectors

- » [Find Collectors/Processors](#)
- » [Prepping Carpet for Collection \(YouTube\)](#)
- » [Stacking Trailers with Carpet \(YouTube\)](#)

Processors

Buyers

Retailers/Installers

Manufacturers

- » [Handling and Storage Guidelines](#)
- » [Recycling Carpet](#)
- » [Technical Information](#)

www.calrecycle.ca.gov/carpet

Buying Carpet

www.calrecycle.ca.gov/carpet

Information For...

Collectors

Processors

Buyers

Retailers/Installers

Manufacturers

- Buying and Caring for Carpet
- Find Collectors/Processors
- Select Carpet that Prevents Waste

- Buying Recycled Products
- Products Made from Old Carpet (CARE)
- What to do with Old Carpet

Procurement Activities

- Removal of old carpet
 - Direct contractor to recycle
- Buying new carpet
 - Establish policy
 - Specify carpet conforms to NSF 140 – Carpet Standard, Platinum level . [check CRI list \(search “platinum”\)](#)
 - Made with recycled content postconsumer carpet content
 - Fiber that is readily reusable/recyclable (e.g. Carpet tiles, nylon)
- Close recycling loop - Purchase products made with carpet-derived materials

Market development: Increase Purchases of Carpet-Derived Materials

- **Carpet-derived**
w/ postconsumer carpet content (PCC)
- **CARE/CalRecycle Steps:**
 - Develop list carpet-derived products
 - Review list to identify those with great potential for state purchasing
- **Need:**
 - Government entities willing to share specs and try products that meet specs

Procurement policy (sample language)

- Reference NSF 140 standard

“Effective immediately, all carpet purchased by _____ shall be certified to meet the NSF/ANSI 140-2012 Standard (Standard) at its Platinum level. If carpet is not available meeting the most recent standard, the previous NSF/ANSI 140 standard meets this requirement. “

- Purpose

“This requirement does not replace technical product specifications; rather, it provides a minimum environmental specification.”

Source: www.documents.dgs.ca.gov/osp/sam/mmemos/MM10_01.pdf

Procurement policy (continued)

- Scope

These requirements shall apply to all modular and broadloom carpet purchases for new construction, renovation, and replacement, whether purchased through construction contracts, leases, Contract Multiple Award Schedule (CMAS), or other procurement methods.

- Verification

Carpet purchases shall require proof of independent third-party certification as specified in the Standard....

Procurement policy (continued)

- Proper management of old carpet
 - All agencies and contractors who purchase carpet for government facilities shall ensure that all unwanted carpet shall be removed, utilized, and/or recycled. If not recyclable, all unwanted carpet must be managed properly, according to all applicable state, federal, and local regulations.
- Who is Affected
 - All agencies, including agency contractors, and/or agency subcontractors, that purchase carpet or hire contractors that purchase carpet for government facilities.

CARE Carpet Contacts

- **California**

- **MS. Brennen Jensen**,
CA Carpet Stewardship Program Manager
(831) 917-3720, bjensen@carpetrecovery.org

- **National**

- **Dr. Robert (Bob) Peoples**, Executive Director
Carpet America Recovery Effort (CARE)
100 S Hamilton Street, Dalton, Georgia 30720
706-428-2127, bpeoples@carpetrecovery.org

- **CA Carpet Stewardship:**

<http://carpetrecovery.org/AB2398.php>

CalRecycle Carpet Contacts

- **Kathy Frevert**
Kathy.Frevert@calrecycle.ca.gov
916-341-6476
- **Fareed Ferhut**
Faridoon.Ferhut@CalRecycle.ca.gov
(916) 341-6482
- <http://www.calrecycle.ca.gov/carpet/>
(Carpet Home Page)