

RYAN TRAINER

MATTRESS RECYCLING COUNCIL

JUNHO 2022

THE BASICS — WHO WE ARE



International Sleep Products Association (ISPA)

Trade association for the mattress industry



Mattress Recycling Council (MRC)

Non-profit created by ISPA in 2013 to develop and implement recycling programs in states with mattress recycling laws (California, Connecticut, Rhode Island – and Oregon in 2024)



Bye Bye Mattress

The consumer-facing brand developed by MRC

THE PROBLEM







Americans discard an estimated 15 million mattresses each year

To address this opportunity –

- Mattress industry created MRC
- In operation since 2015
- Achieved 70+% recycling rate
- Example of Public-Private Partnership making a difference



OUR IMPACT

By December 2022, MRC will have:

Recycled more than 11.5 million mattresses Diverted nearly 190,000 tonnes of steel, foam, fiber and wood for use in new products Saved nearly 11 million cubic metres of landfill space



COMMON ELEMENTS

- Non-profit industry-run stewardship organization
- Funded by external, visible consumer fee
- Oversight provided by state agency
- Antitrust exemption



CHALLENGES

- Funding
- Collecting discarded units
- Improving operations
- Finding new and better markets for recycled materials
- Building circularity into manufacturing and design

FUNDING



- Mattress recycling not financially self-sufficient
- Requires recycling revenue + other funding
- Policy question: Should funding be "internalized" (manufacturer pays) or "externalized" (consumer pays)?



EXTERNAL COMSUMER FEE

For long-term durable products where imports have large market share, externalized fee is best

- Simple, efficient and equitable
- Easier to collect and verify
- External fee can be "visible" on sales receipt



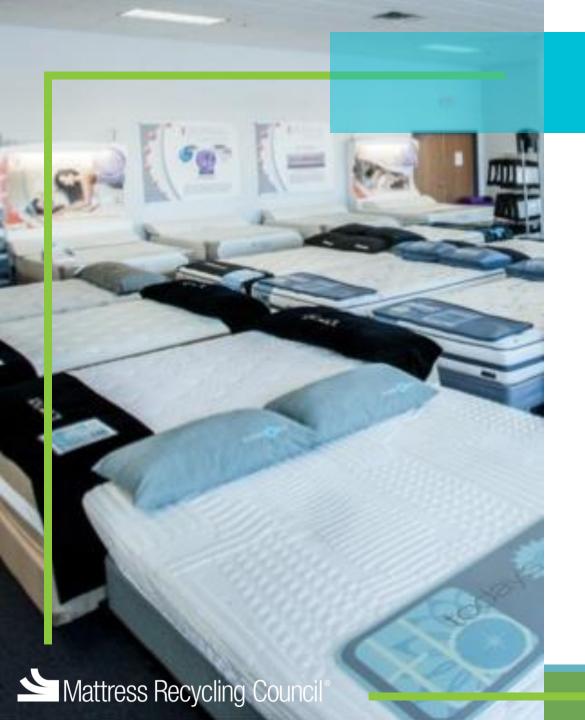
WHAT DOES FEE PAY FOR?

- Containers and trailers for collection
- Transportation of mattresses to recyclers
- Mattress deconstruction and recycling
- Education and outreach
- Program administration
- Research and sustainability efforts
- Government enforcement

COLLECTION NETWORK

- Use existing infrastructure
 - Work with retailers to collect units from consumers
 - Work with solid waste authorities
- MRC's business support
 - Commercial Volume Program MRC picks up mattresses from retailers, hotels and universities with 100+ units
 - Commercial Drop-off Sites Ideal for smaller and rural retailers
 - Recycling Facilities Participating recyclers accept large quantities at no cost





RETAILER OBLIGATIONS

- Collect MRC recycling fee on all units sold to consumers in California, Connecticut and Rhode Island
- Report and remit the fee monthly to MRC through MRCreporting.org
- Offer no-cost take back upon delivery of new mattresses (in California only)



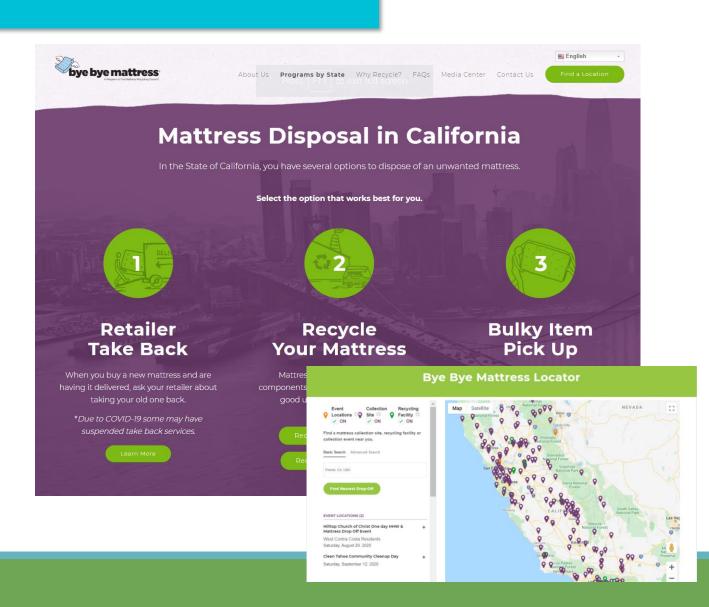
CONSUMER OUTREACH

- In-store materials
- Advertising campaigns
- Public service announcements
- Social media
- Community events



BYEBYEMATTRESS.COM

- Recycling locator
- Recycling tips
- Retailer take back information
- State program information





IMPROVED OPERATIONS

Collection and Transport Efficiency:

- More units/load
- Add collection sites in underserved areas
- Better truck scheduling to shorten trips and reduce diversions
- Work with solid waste authorities to separate mattresses from other solid waste
- Protect units from weather

RECYCLER EFFICIENCY

- Lean manufacturing assessments
 - Identified 30% improvements
- Prototype to dismantle pocketed coils
- Safety/OSHA compliance audits
- Fire safety review
- Waste composition studies



RESEARCH

- MRC invests about \$1 million annually in research
- 20+ projects since 2018
- Focused on identifying new and better uses for recycled mattress materials



MRC RESEARCH GOALS







Diversify end-use markets

Anticipate emerging challenges and develop strategies

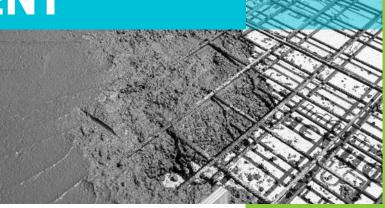








ZEOLITE CEMENT

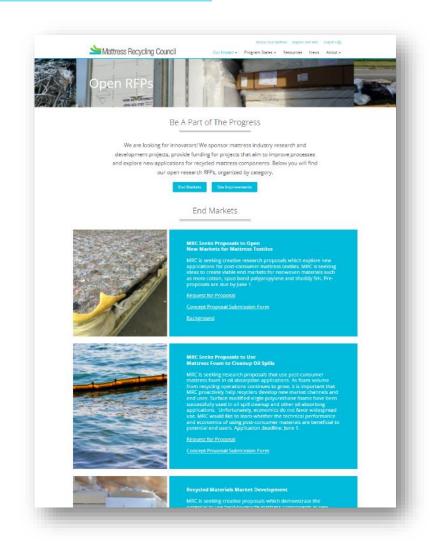






FUTURE PROJECTS

- Oil Absorbing Foam RFP
- Textile Recycling RFP
- Age Study
- Fire Risks Webinar
- Open RFP: \$100,000/contract





Proactive program designed by to help mattress manufacturers reduce waste, emissions and energy consumption while increasing operational efficiencies.

Includes –

- Working with manufacturers to develop process for continually reducing their environmental footprint
- Developing greater awareness of end-of-life recycling challenges when designing new products and materials
- Monitor new product features to identify future recycling needs and challenges

REDUCTION & CIRCULARITY

- Materials and waste reduction
- New Materials Recycling Committee
 - Forecasting for the future
- Circularity Committee
 - Engaging suppliers in supply chain
- New ISPA Sustainability Program





WHAT'S NEXT?

Legislative Update

Mattress Legislation Considered in the U.S. in 2022

- Oregon Enacted, will launch 2024
- Maryland
- Massachusetts
- Minnesota

Other Activity

- Maine pilot program
- Massachusetts landfill ban
- Possible legislation in New York in 2023

THANK YOU rtrainer@sleepproducts.org +1 703-801-2073 mattressrecyclingcouncil.org/news/media-inquiries/ To receive MRC Highlights and follow our announcements.

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