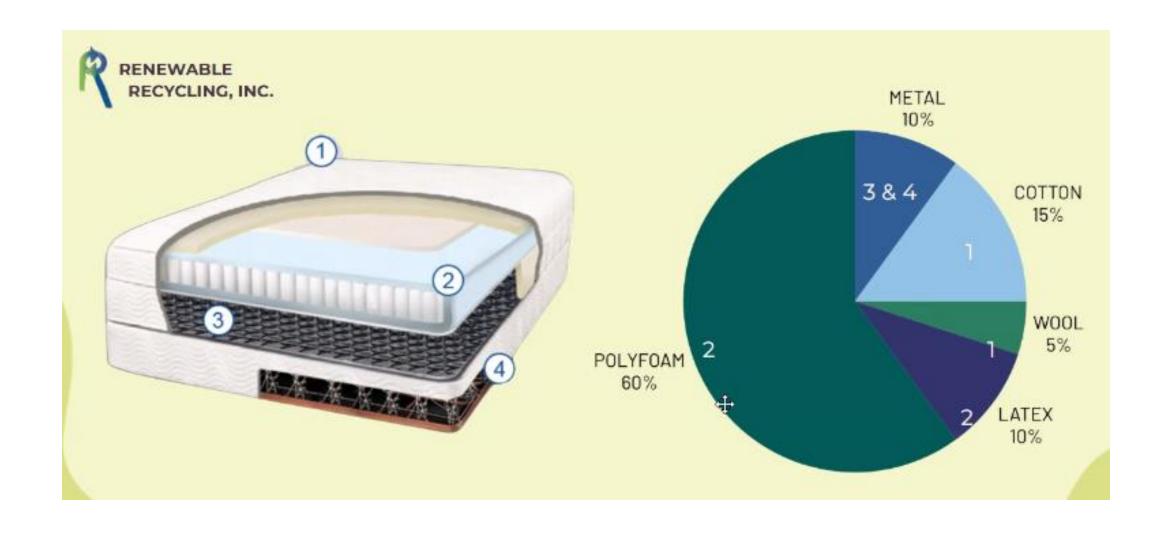


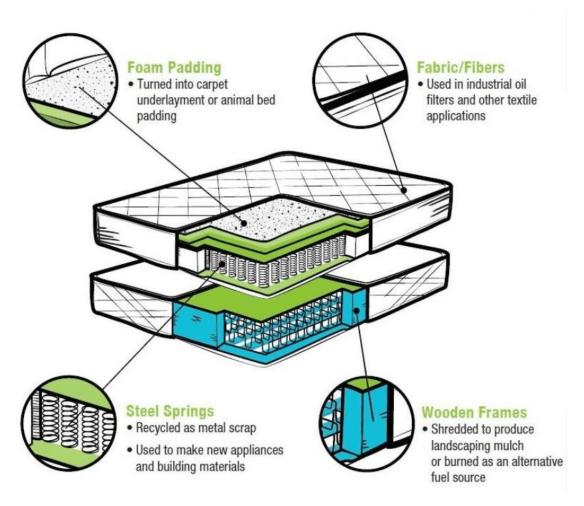
WHY MATTRESSES

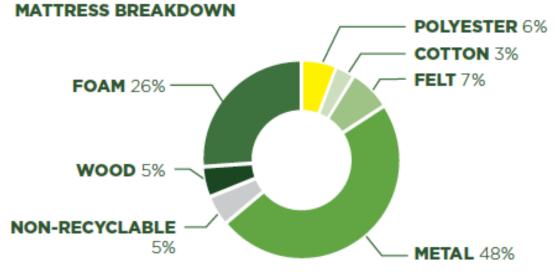
- Consume disproportional airspace
- Difficult to manage onsite
- Tangle in equipment
- Expensive for municipalities to collect
- Lost landfill revenue
- Possible to achieve high diversion rates

MATERIAL BREAKDOWN



MATERIAL APPLICATIONS





WHY MATTRESSES

- Currently estimated that City and the County accept about 20,000 mattresses each year.
- Each mattress consumes approximately 15-20 cubic feet of airspace or about 15,000 cubic yards of airspace in the Dane County Landfill annually.
- This is approximately <u>5% of total airspace consumption</u>.
- Over the life of the landfill at the proposed Sustainability Campus, mattress recycling could extend the life of the site by up to 5 years or more.

POTENTIAL SCENARIO

- Dane County releases RFP for mattress recycling services
- Dane County constructs building, procures mattress recycling equipment
- Dane County charges a per-unit cost for acceptance at Sustainability Campus
- Dane County delivers mattresses to facility, pays a perunit processing fee to vendor
- Vendor brokers sale of materials and keeps any revenue
- Vendor disposes of residual materials within Dane County landfill for reduced tip fee cost

PROJECT ASSUMPTIONS

- Approximately 20,000sqft building
- Construction costs ~\$315/sqft
- 20,000+ mattresses annually
- ~85% waste diversion by mass
- Cost of equipment ~\$750k 1M

CASE STUDIES

Mattress Recycling Case Studies		
Entity	Price per mattress	Notes
Spring Back Colorado	\$40 + \$60-90 pickup fee	
<u>Charles County, MD</u>	None (covered by annual waste tax)	\$150 of residents' taxes are allocated to the county's Environmental Resources division each year for services like curbside recycling, disposal of yard waste, and mattress recycling
Second Chance Recycling (MN)	\$35 + \$20-75 pickup fee	Partner with Hennepin County – "Investments have allowed Second Chance Recycling to triple capacity since 2012 and be able to recycle up to 150,000 mattresses per year."
Bay Area Recycling for Community (MI)	Twin: \$25 Full/Queen: \$40 King: \$50 + \$90 pickup fee	Non-profit
Bedr World (serves Madison)	\$40 + \$95 pickup fee	National service

