

Mattress Recycling Summit

Sept. 17, 2014



Alex Erzen, LinkUp Mattress Project Manager



King County

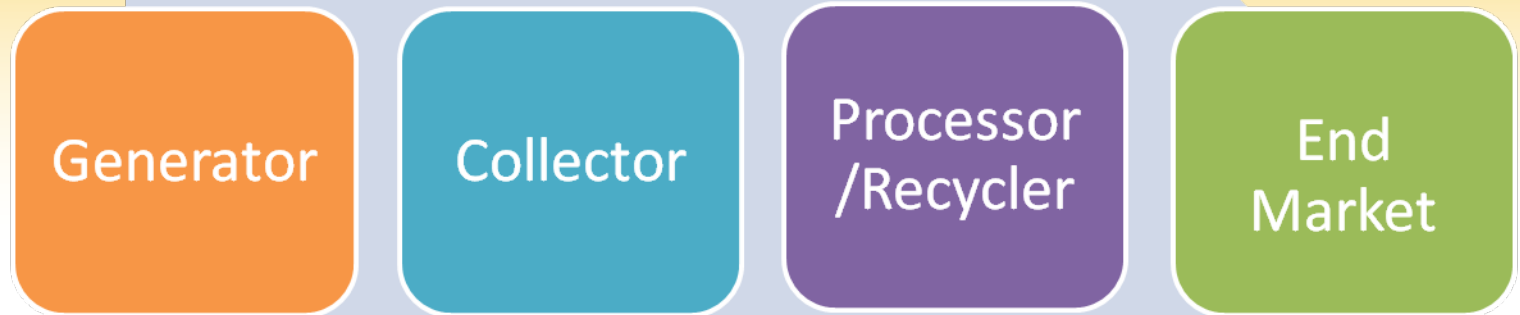
Department of
Natural Resources and Parks
Solid Waste Division

Serving
Community

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Environment

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Excellence

Mattress Recycling Supply Chain



Generator: Make, sell or dispose of mattresses

Collector: Collect mattresses for, or transport to, disposal / recycling

Processor / Recycler: De-construct mattresses into recyclable components

End market: Make a product out of, or find other uses for, mattress components

King County LinkUp

Facilitate development of

- *end markets* for recyclable materials
- *collection and processing infrastructure* that supplies markets

2011-14 focus: mattresses, textiles, carpet, asphalt shingles



- 2011 Mattress Recycling Summit
- 2012 mattress Take it Back Network
- Ongoing outreach, research, assistance:
 - end market research (shoddy cloth, cotton)
 - survey of consumer behavior
 - retail direct mail, online advertising, other outreach
 - review of public disposal policies

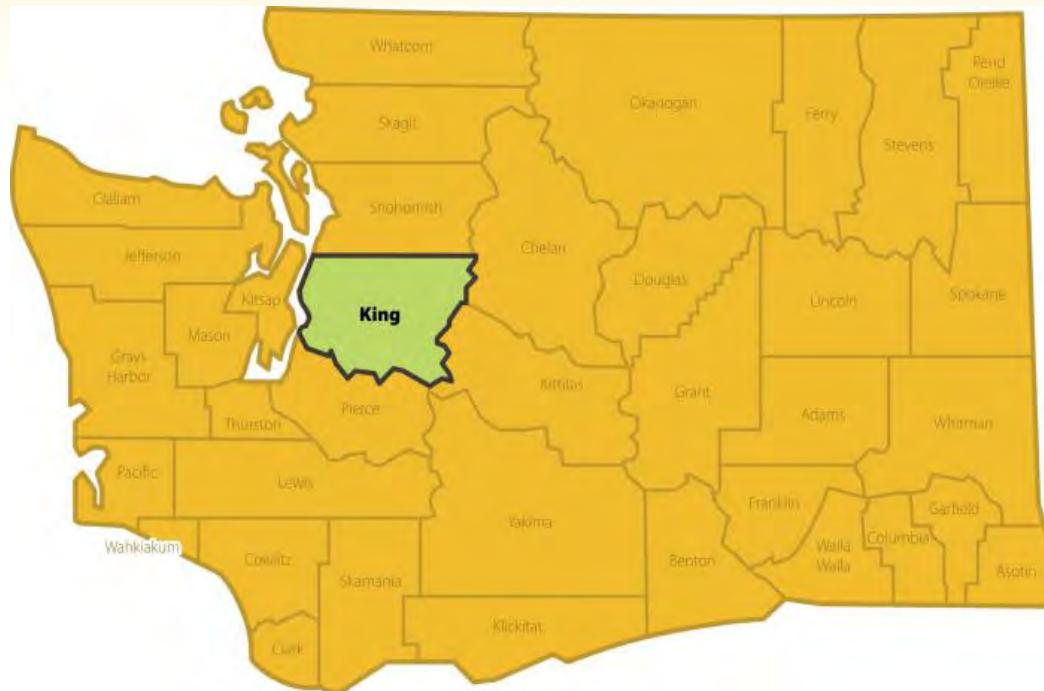
Mattress Collection and Processing

- 2011: 1 processor (CI), 1-2 collection locations
- 2013: 3 processors, 6 locations
- 2014: 4 processors, 6 locations

Not yet geographically convenient

King County Solid Waste Division

Operates 1 landfill, 8 transfer stations, 2 drop boxes



Consumer Survey

- 67% got rid of old when buying new mattress
- Disposal / Removal method:
 - 55% old mattress removed by *retailer* of new
 - 20% sold or gave it away
 - 10% took to dump (**transfer station**)
 - 4.5% **junk removal company**
 - 3% special pick-up with **garbage collector**

Consumer Survey



- 70% more likely to purchase a mattress from a retailer who recycles
- 52% willing to pay for mattress recycling, even if disposal costs less
- 90% unaware of mattress recycling options

Mattress Generation & Disposal

- ~1-10% of region's population
- Puget Sound metro: 4 million
= ~400,000 used mattresses / year
- 3000 tons or ~90,000 mattresses at KCSWD
Transfer Stations (2011) + Seattle
= <150,000 / year

Other Mattress Management

- City of Tacoma landfill transfer station
 - Recycling by Spring Back NW (2014)
- Disposal ban
 - Metro Vancouver (BC), Santa Cruz County (CA)
- Product stewardship (legislation)
 - Statewide stewardship in CT, RI, CA (2015-16)
 - Federal stewardship (all furniture) in France (2013)

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MATTRESS RECYCLING COUNCIL (MRC)

Used Mattress Recovery and Recycling

September 17, 2014

Mike O'Donnell
MRC Program Director

What is the MRC?

- Mattress Recycling Council (MRC) was created by International Sleep Products Association (ISPA), the trade association for the mattress industry
- Non-profit organization tasked with implementing mattress recycling laws in states with supporting legislation. Seeks standardization among states.
- Connecticut, California, Rhode Island

MRC Program Objectives

- Design and implement programs that:
 - ✓ Increase number of mattresses recycled
 - ✓ Reduce illegal dumping
 - ✓ Is efficient and cost effective to minimize consumer recycling fee
 - ✓ Recycles most of the mattress components

How will the program work?

- Mattress recycling fee established by MRC, approved by state regulating agency
- Retailers charge the visible fee on each unit sold in the state
- The fee is remitted to MRC
- Retailers and solid waste programs consolidate units
- Transporters and recyclers manage program logistics
- MRC uses the fee revenues to pay these service providers

Collection

- Consumers will continue to dispose of mattresses through traditional methods:
 - Retailer take back with new purchase
 - Transfer station drop-off
 - Curbside pick-up
 - Incentivized drop-off
- Large volume consolidators provided with storage containers for efficient packaging

Transportation

- RFP process for transportation services from consolidation locations to recyclers
- Trailers most preferable storage container
- Efficient packaging important to minimize costs
- Programs must service all area of each state; presenting logistical challenges

Recycling

- RFP for recycling services
- Multiple processors preferred
- Encourage competition and geographically diverse locations
- Uncontaminated feedstock to maximize recovery

Mattress Composition

- Steel: strong local markets
- Cotton, natural fibers, felt pads: limited domestic markets
- Urethane and memory foam: strong markets driven by carpet pad re-bonders
- Quilting: sophisticated recyclers separate foam for carpet pad
- Non-recyclable: 5-15%

How is the Program Funded?

- The recycling fee is developed and set with approval and oversight from state agency
- Visible recycling fee collected from consumers at point of sale
- Retailers remit fees to the MRC
- Collected revenues fund transportation, recycling, and program administration

Retailer Recycling Fee Remittance

- Recycling fee amount is non-negotiable
- Taxable event
- Fee applies to both mattresses and foundations
- Secure on-line reporting system for remittance
- Educational materials regarding the fee targeted to retailers and consumers

Canadian Tire
Store #600
65 Dundas ST. W
Toronto, On
416-979-9056

GST 866864499RT0001

REG #:11 07/07/2010 16:58:14 TRANS #:200
OPERATOR #: 2009 Float: 001

053-3537-0 PALM REG ORIG.1 \$ 1.99

(SAVED \$ 1.50)

098-0778-8 ECOFEE \$0.13 \$ 0.13

042-2780-0 TETRAFIN GOLDFI \$ 2.99

SUBTOTAL \$ 5.11

13% HST \$ 0.66

5% HST \$ 0.00

OLD 5% GST \$ 0.00

OLD 8% PST \$ 0.00

T O T A L \$ 5.77

Connecticut Status

- Regional coordinator hired to coordinate program logistics
- Program Plan submitted July 1, 2014 amended September 15
- Consumer Fee approved by auditor and proposed at \$9.00 per unit
- Plan approval process – Fall 2014
- Anticipated start date February 1, 2015 pending regulatory approval

Rhode Island

- Regional coordinator hired to coordinate program logistics
- RFP for recycling/transportation – Spring 2015
- Program Plan due July 1, 2015
- Consumer Fee dependent on projected revenue and expenses specific to Rhode Island
- Anticipated start date – early 2016

California

- Hiring Program Coordinators for S. and N. California
- Working closely with CalRecycle Advisory Committee
- RFP for recycling/transportation – Spring 2015
- Program Plan due July 1, 2015
- Consumer Fee dependent on projected revenue and expenses specific to California
- Anticipated start date – early 2016



MATTRESS RECYCLING COUNCIL (MRC)

Mike O'Donnell

MRC Program Director

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