Extended Producer Responsibility in Rhode Island:
Rethinking Mattress Recycling

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Introduction

Extended producer responsibility describes a model in which manufacturers take full financial and physical responsibility for their products when consumers no longer want them. EPR can:
• Incentivize eco-design
• Save taxpayer money
• Decrease waste in landfills

During the 2010-2011 legislative session, a bill was introduced into the RI House (H5888) and Senate (S459) that would have created a framework for establishing producer responsibility for a wide array of products. The bills targeted mattresses and medical sharps as two products that are top priorities.

Why Mattresses?

• Mattresses are expensive for municipalities: Providence spends 12.1% of its municipal solid waste budget on mattress disposal
• Mattresses are costly for the state: the RI Resource Recovery Corporation (RIRRC) loses $2-3 on every mattress it recycles in MA
• Mattresses left on curbs can pose public health risks

Research Question and Approaches

Key Question: What does the most optimal RI mattress take-back program in look like?
Approaches:
• Interviewed recycling coordinators in seven RI municipalities
• Calculated corresponding percentage of solid waste budgets spent on mattress disposal
• Interviewed six mattress retailers for data on existing retail collection programs
• Identified goals for mattress take-back
• Generated optimal producer-funded program

A Traditional Versus EPR Model

Currently, mattresses flow linearly (Fig. 1):

Producers → Retailers → Consumers → RIRRC → Recycling

Under an EPR Model, mattress recycling could be funded and overseen by producers (Fig. 2):

Recycling → Consumers → Retailers

Goals for an EPR Take-Back Model

1.) Decrease the burden on municipalities
2.) Incentivize eco-design
3.) Make EPR the norm
4.) Create jobs in RI
5.) Generate “green” jobs
6.) Recover the full costs for RIRRC

Based on the matrix generated in Table 2, the most effective model to achieve all 6 goals is a producer-funded third party that:
• Finances existing retail collection programs
• Transports, stores, and finances the recycling of all other mattresses in Rhode Island (Fig. 3)

Conclusions

Based on an analysis of costs associated with mattress disposal, a producer-funded third party emerges as the most effective entity to transport, store, and finance mattress collection and recycling. EPR legislation is the most expedient way to create such a program, and requires strong public support.

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