



EPR IN THE US WHAT'S WORKING AND WHY

Northeast Recycling Council Fall Conference

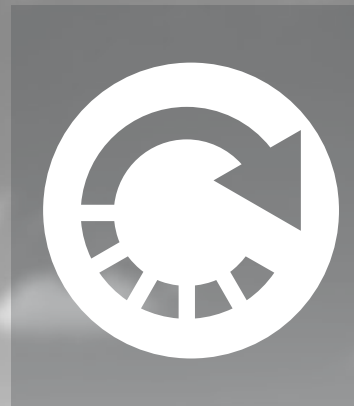
November 13, 2017



Are you
ready to
effect
change?



ORGANICS
MANAGEMENT



WASTE
RECOVERY



GLOBAL CORPORATE
SUSTAINABILITY

since 1986

WHAT WE DO

SINCE 1986, RRS has expanded its services throughout the value chain:

- Planning/Implementing recycling and composting programs.
- Planning/Implementing materials management and zero waste solutions.
- Waste and compliance training.
- Developing/Facilitating collaborations to increase commodity recovery.
- Analyzing the recyclability and compostability of packaging.
- Evaluating anaerobic digestion and biomass facilities.
- Food waste prevention and organics recovery planning.
- Reviewing/Negotiating hauler and MRF contracts.
- Designing/Permitting MRF and composting sites.
- Developing/Implementing multi-stakeholder communications and outreach.

Much of our work is customized to the client's situation. Talk to us to see if we are the right fit to help you effect change.



WHO WE ARE

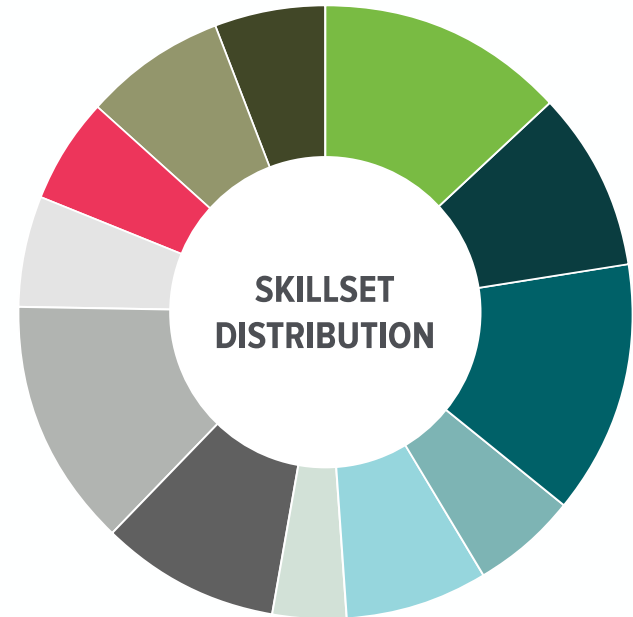
30 years in recycling and managing resources

40 employees in 3 countries

660 years combined field experience

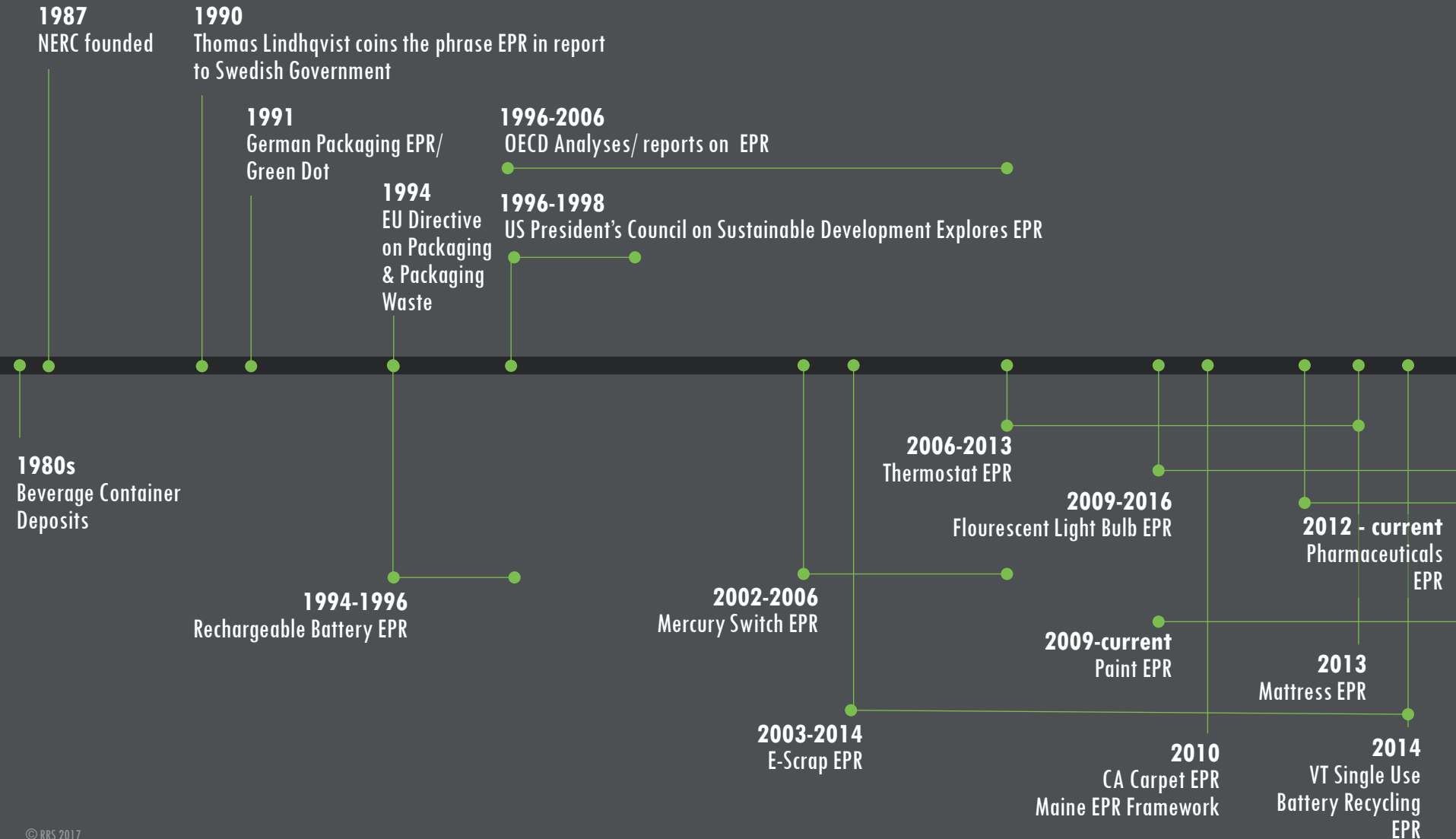
1,000 projects across 9 markets

OUR SKILLS



- RECYCLING/SOLID WASTE PLANNING
- ORGANICS/COMPOST
- COMMUNICATION/EDUCATION
- ENGINEERING
- POLICY/LEGISLATION
- HAZARDOUS MATERIALS SAFETY & COMPLIANCE
- PROJECT FINANCE/ECONOMICS
- MRF OPERATIONS & MATERIAL FLOW STUDIES
- DATA ANALYTICS & DESIGN
- CORPORATE SUSTAINABILITY
- COLLABORATION FACILITATION
- ADMINISTRATIVE

A TIMELINE OF EPR IN THE US



WHY CHOOSE EPR?



Increase
diversion
and
recovery



Reduce
cost to
government



Incorporate
the cost of
recycling /
end-of-life
management
in the cost of
the product



Improve the
design of
products to
reduce
environmental
impact



CHALLENGES IN EVALUATING EPR PROGRAM PERFORMANCE

- Pre-program data not available in most states, so before and after comparisons are difficult
- Little data available on recovery of most EPR target products in non-EPR states
- Limited visibility into local government budgets, pre- and post-EPR implementation to evaluate cost savings

DOES EPR ACHIEVE ITS OBJECTIVES?



Increase
diversion
and
recovery



Reduce
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government



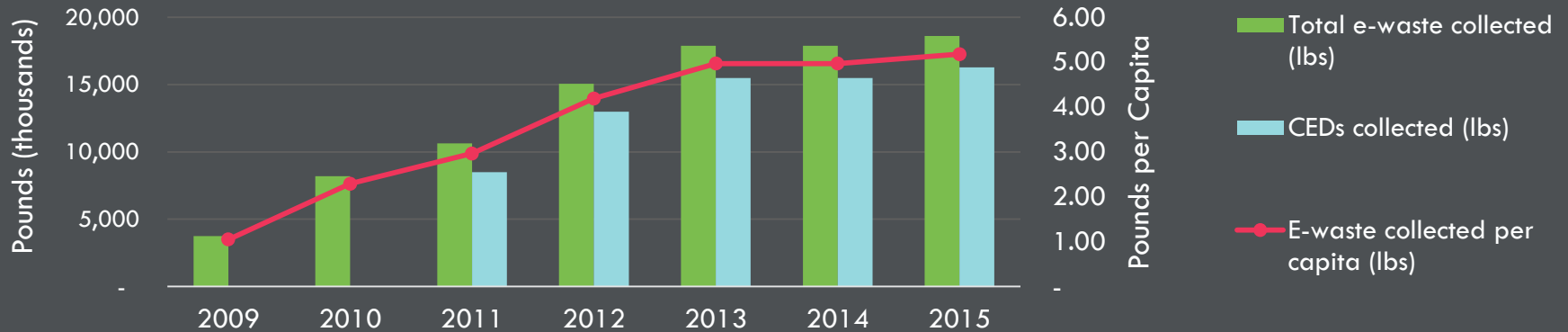
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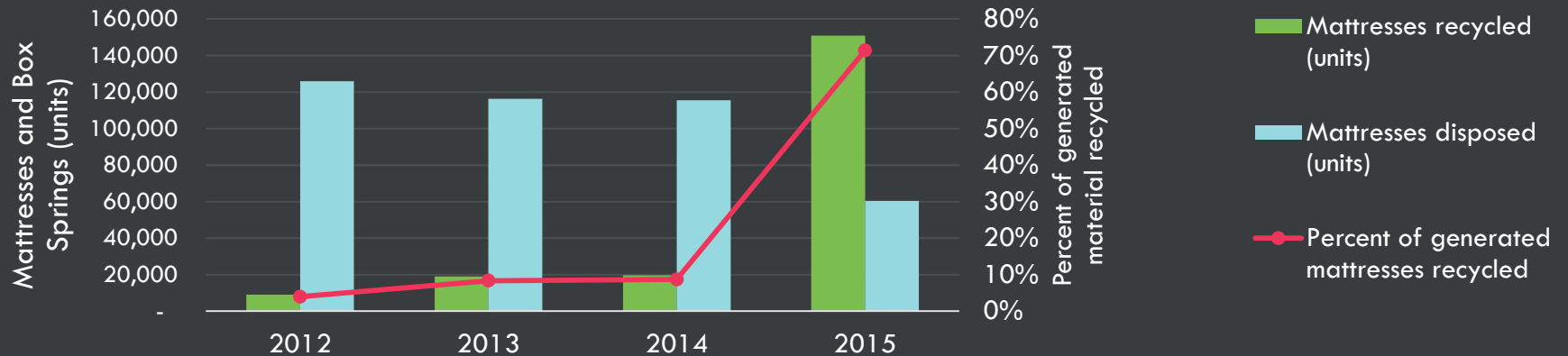
Improve the
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DOES EPR INCREASE RECOVERY? CT EXAMPLE

CHANGE IN E-WASTE COLLECTED

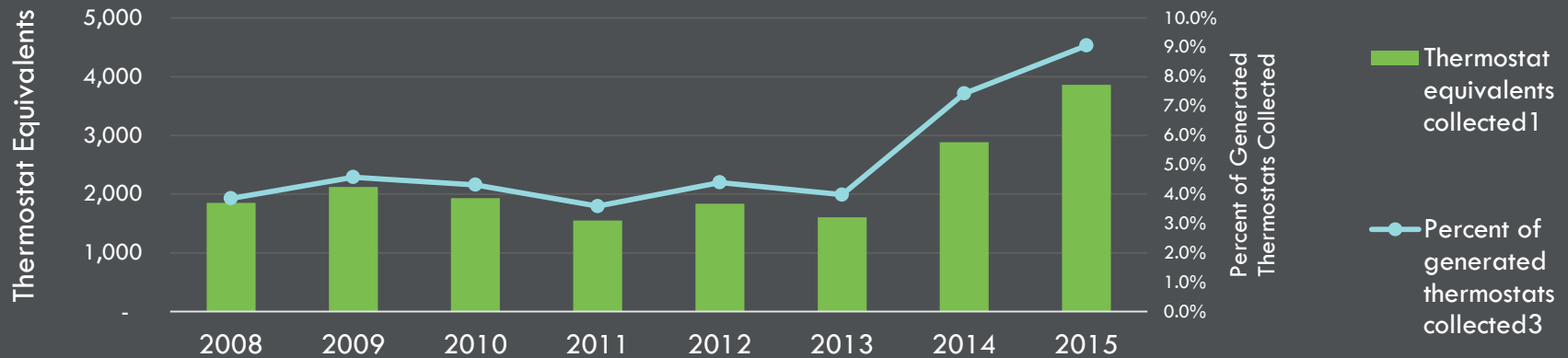


MATTRESSES RECYCLED & DISPOSED: 2010-2015

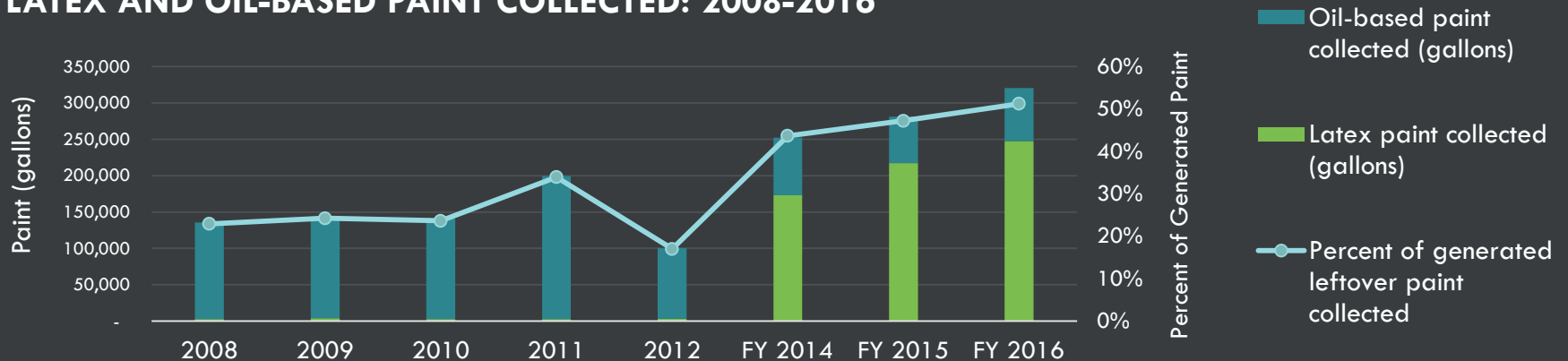


DOES EPR INCREASE RECOVERY? CT EXAMPLE

TRC CT THERMOSTAT COLLECTIONS, 2008-2015

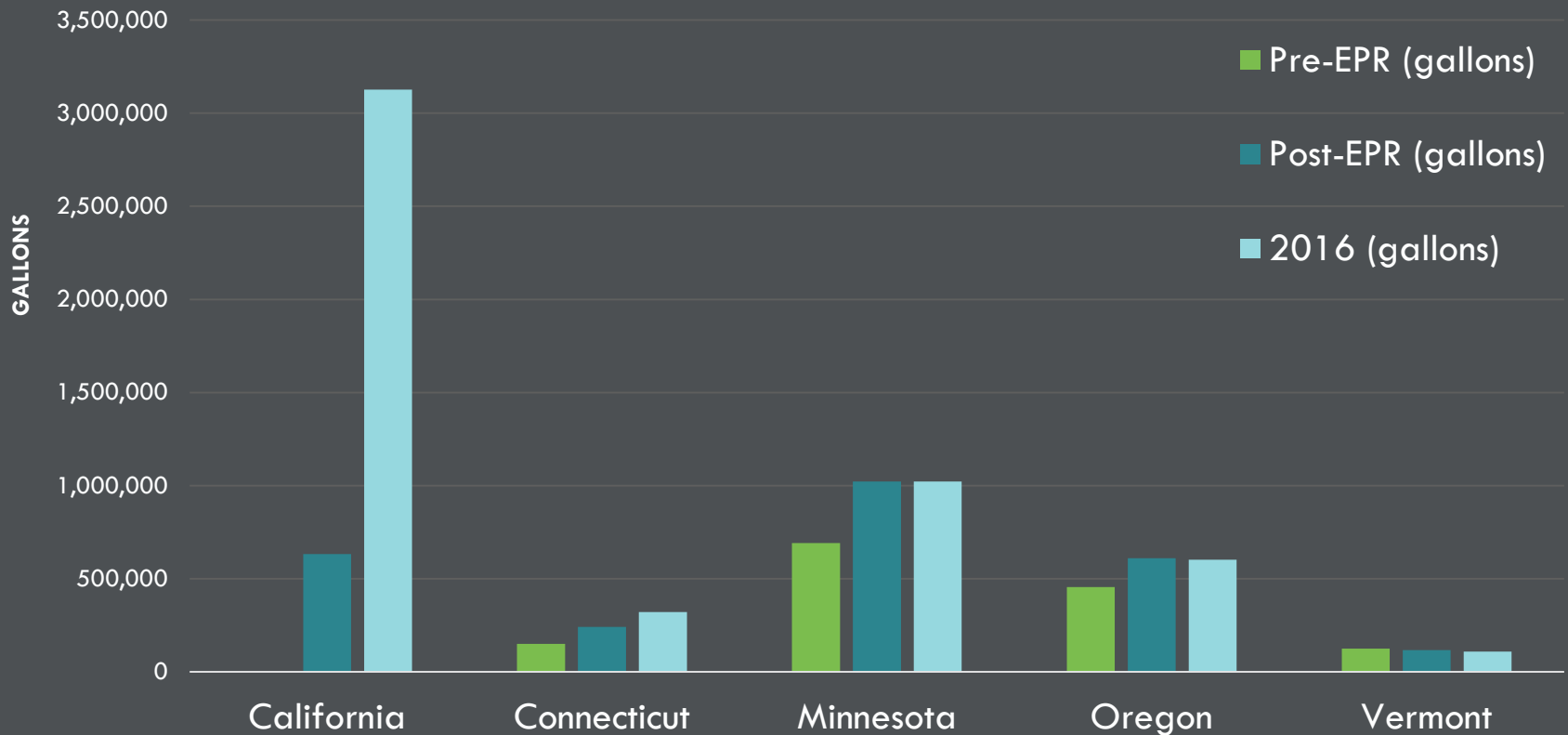


LATEX AND OIL-BASED PAINT COLLECTED: 2008-2016



DOES EPR INCREASE RECOVERY? PAINT EXAMPLE

PAINT COLLECTED PRE- AND POST-EPR

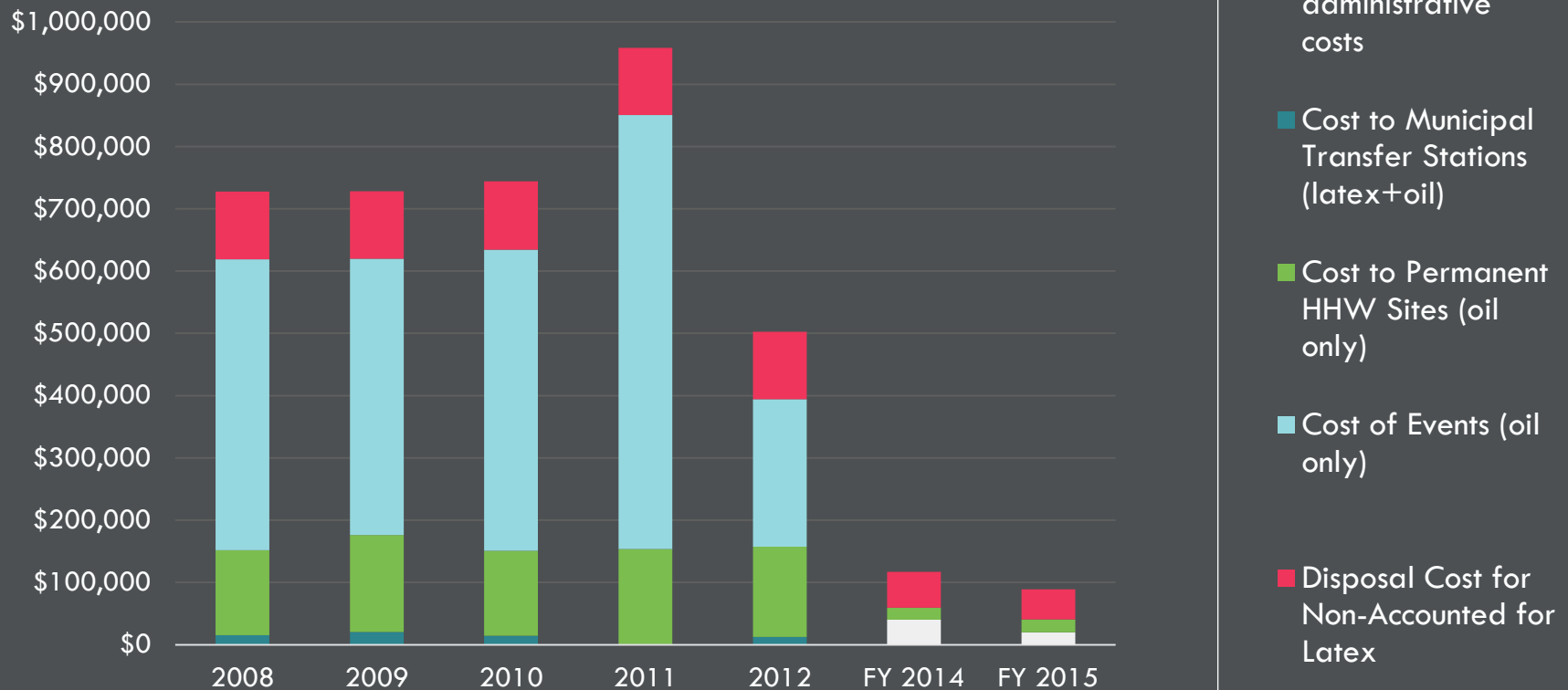


Post-EPR = first full year of data after EPR implementation

Note that in 2016 some total collections decreased slightly, but sales were also lower and so the recovery rate may have increased.

DOES EPR SAVE GOVERNMENT MONEY? CT EXAMPLE

TOTAL STATE & LOCAL GOV'T PAINT MANAGEMENT COSTS



Source: Product Stewardship Institute for CT Department of Energy and Environmental Protection



KEY ELEMENTS OF SUCCESSFUL EPR PROGRAMS

- Convenient collection
- Dedicated funding streams
- Clear responsibility & accountability
- Performance standards (convenience or “rates & dates”)
- Incentives
- Oversight & enforcement

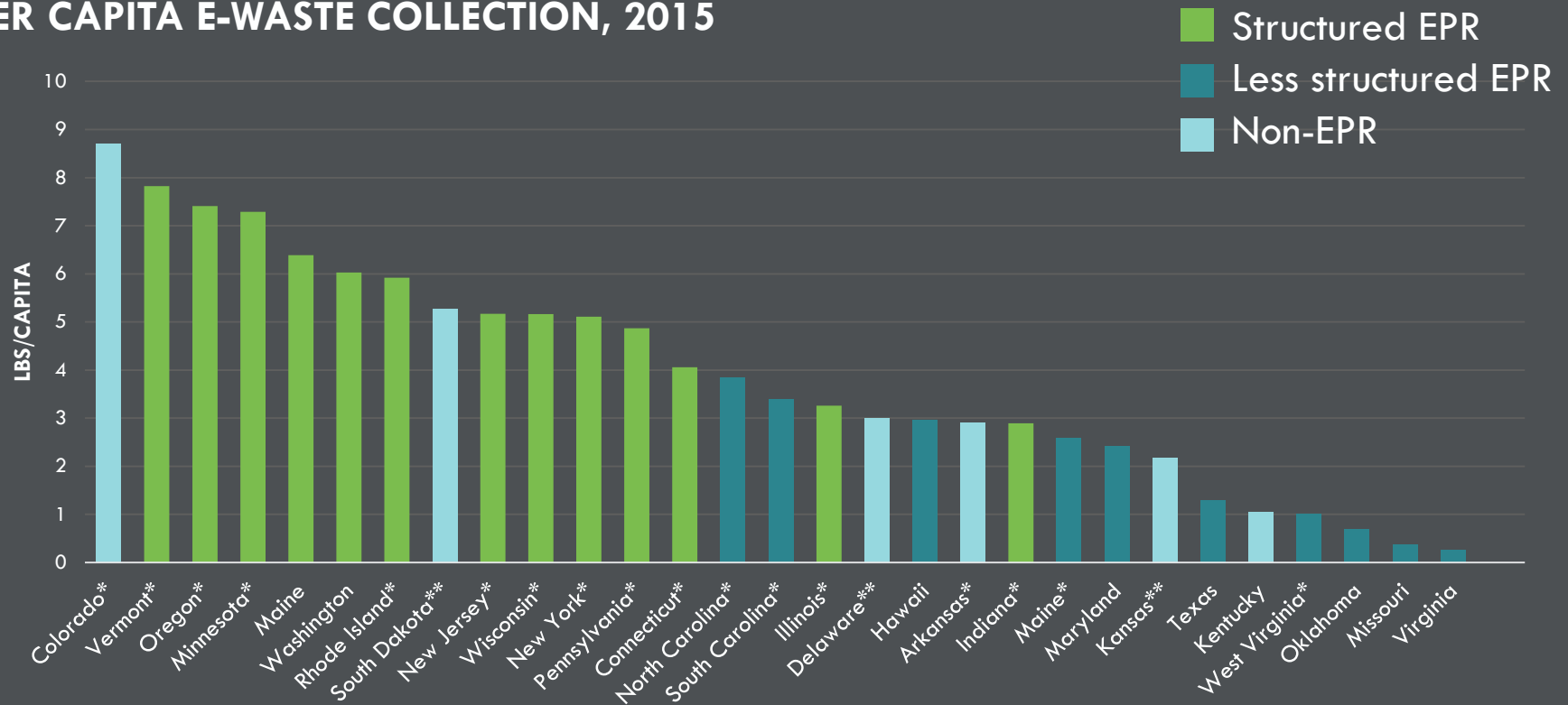


OTHER CONTRIBUTORS TO SUCCESSFUL PROGRAMS

- Transparency / reporting requirements
- Environmental management standards
- Disposal bans
- Education & outreach

DOES EPR INCREASE RECOVERY? E-SCRAP EXAMPLE

PER CAPITA E-WASTE COLLECTION, 2015



*State has an e-waste landfill ban

**Data is for a different year (Delaware 2016, Kansas 2013, South Dakota 2011)

Source: ERCC (EPR States); State websites (non EPR states)

Note: This chart presents available data on program performance, but does not provide an “apples to apples” comparison as the covered products and entities (e.g., residents, businesses, schools, etc.) vary from state to state.



EPR CHALLENGES: CHANGING ROLES

- Appropriate roles for state and local governments
- Proper balance of responsibility & authority



DRIVERS FOR EPR MOVING FORWARD

- Government budget challenges continue
- Market challenges / export restrictions hamper growth in recovery
- Circular economy capturing attention of business leaders



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