





NEW HAMPSHIRE MUNICIPAL ASSOCIATION



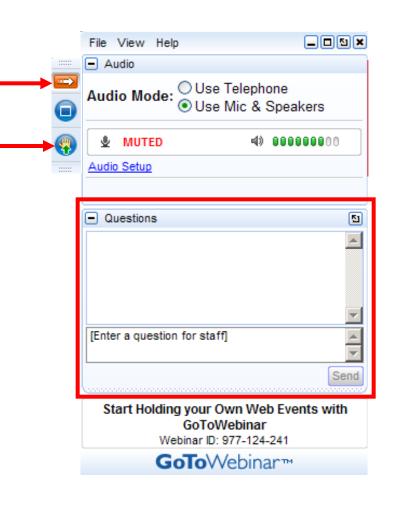
Cutting Trash in Half: Pay-as-You-Throw in New Hampshire

Stephen Lisauskas, Vice President, WasteZero &

Adam Clark, Solid Waste Manager, City of Concord

How to Participate Today

- Open and close your Panel
- Submit text questions
- Q&A addressed at the end of today's session







Agenda



- Who is WasteZero?
- Overview of Trash Problem
- Trash Metering Models
- Why PAYT?
- PAYT in New Hampshire, New England, Tilton & Concord, Maine
- Financial & Environmental Impacts
- Messaging & Public Engagement







About WasteZero



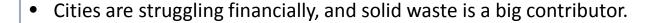
- In business since 1991, we are a national leader in municipal waste reduction
- Helps towns and cities reduce waste, increase recycling, and save money
- Has a 100% success rate with WasteZero-designed waste reduction programs
- Offers consulting, as well as program design & management
- Is a certified B Corp, meeting rigorous social & environmental standards







The Trash Problem



- The cost of trash has risen 2.4 times faster than inflation over the last 30 years.
- Even financially healthy communities spend more than they need to on trash.
- Pay-as-you-throw helps communities...



- Generate revenue
- Reduce costs
- Create fairness
- Free up people and other resources



- Reduce waste
- Increase recycling
- Save energy
- Reduce greenhouse gases

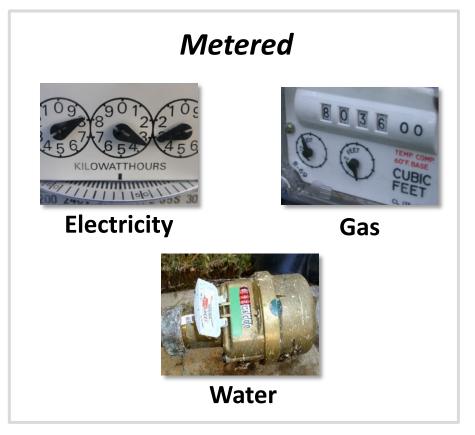




Today: Trash Is Incentivized

Solid waste is the last unmetered utility, which encourages waste and is unfair.







Communities should be metering their trash just like other utilities.





The Trash Metering Model

1. Cut Fees

2. Pay per Bag

3. Incentivize What's Right









Provides incentives to reduce, reuse, recycle, and compost; equitable



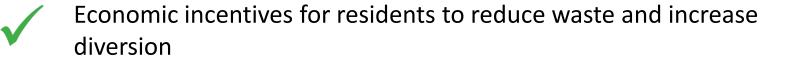


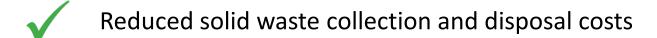
Why Pay-as-You-Throw?

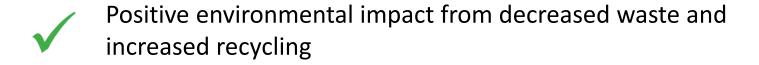
Pay-as-you-throw (PAYT) systems are an alternative to the traditional MSW payment model. These systems allow customers who put out less trash pay to less than those who put out a lot.



There are several benefits to PAYT policies:







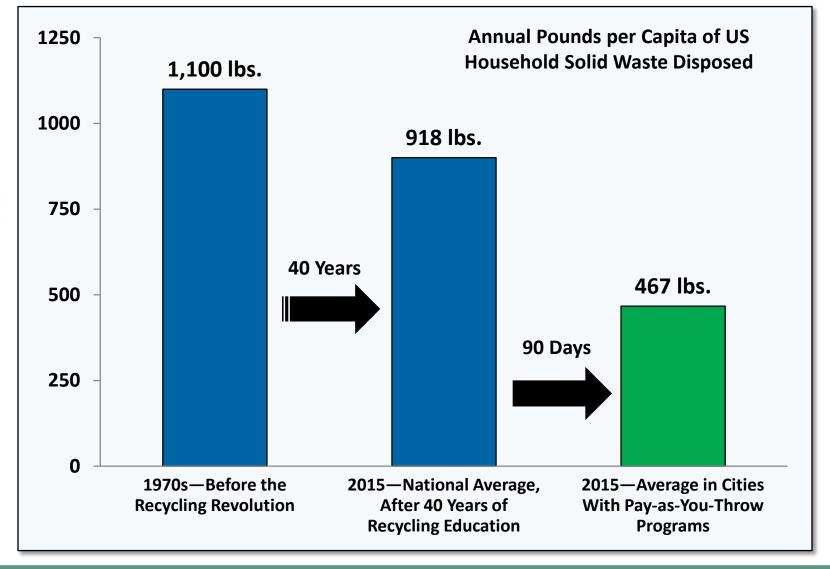
Landfill life significantly extended





The Most Effective Intervention





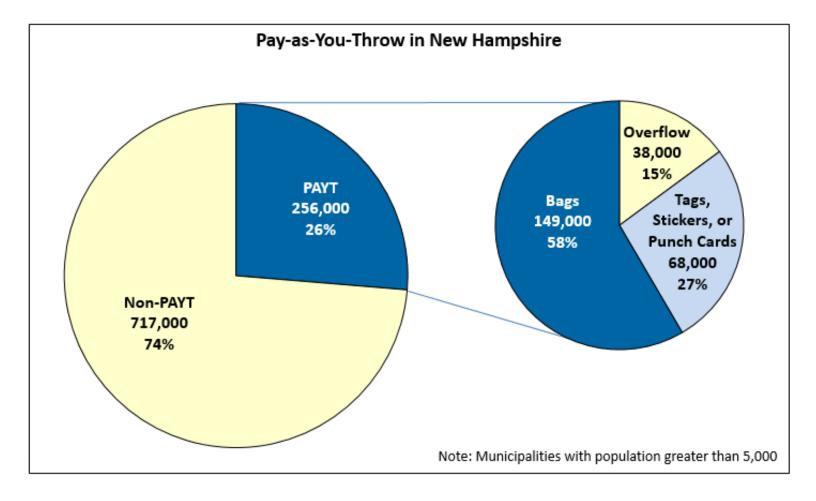




PAYT in New Hampshire—26% of Residents

Pay-as-you-throw is a familiar concept throughout New Hampshire.





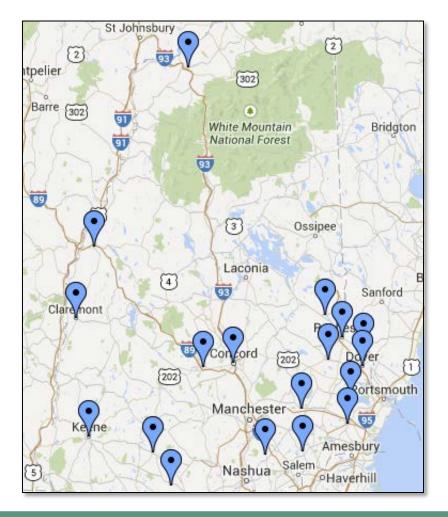




PAYT in New Hampshire—A Familiar Concept

The 18 pay-as-you-throw communities in New Hampshire are spread throughout the state.



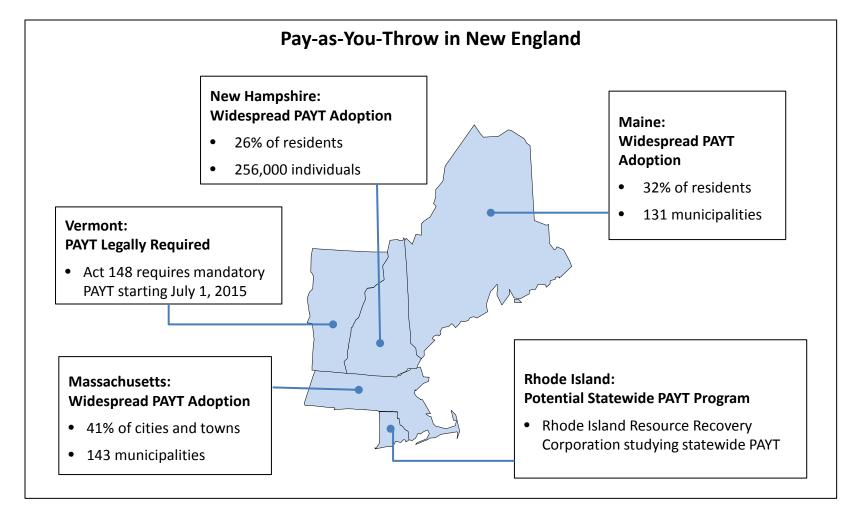






PAYT in New England





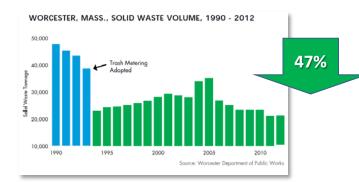


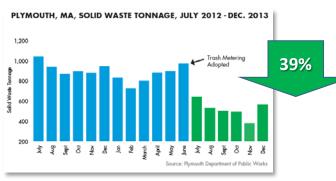


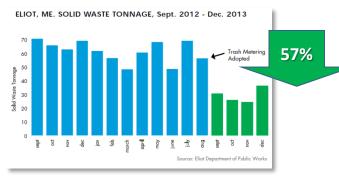




- Substantial increases in recycling
- Significant results within 30-90 days
- Permanent impact
- Effective in cities and towns, regardless of
 - Population size
 - Average income level
 - Numerous demographic factors
 - Method of trash collection





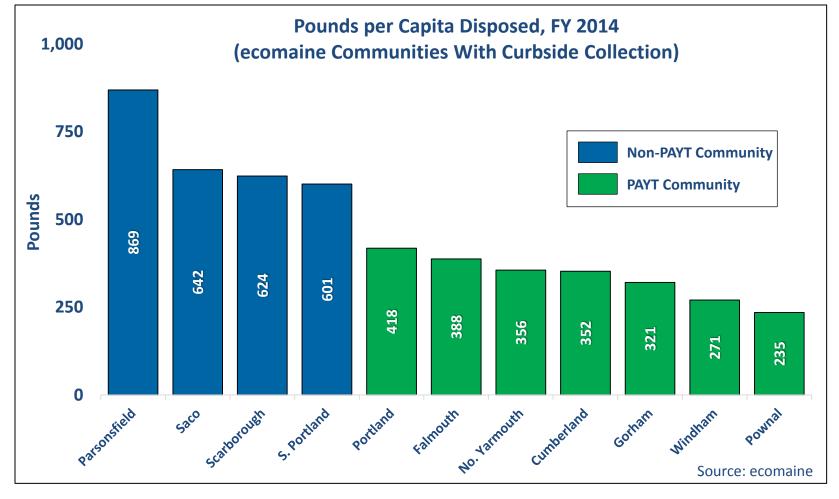






PAYT Results—Unrivalled Waste Reduction







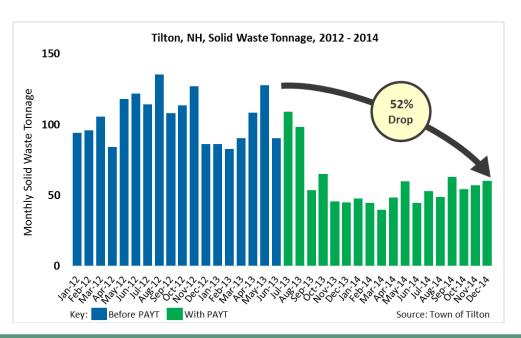


PAYT Results—Tilton NH

Tilton adopted a pay-as-you-throw program in July 2014. Residential solid waste tonnage has decreased by more than half, saving \$35,872 in disposal costs.

Tilton had no curbside recycling collection before PAYT, and now has a 38% recycling rate.

Tilton voters soundly rejected an effort to repeal the program, voting 79-22 in town meeting to keep PAYT.



Bag-based PAYT with weekly curbside trash and biweekly singlestream recycling collection

3,500 population

\$42,000 household median income









- Traditionally low tip fees were coming to an end, Concord Cooperative
- Options were PAYT or a significant increase on the tax rate
- SWAC -> City Council
- Implementation

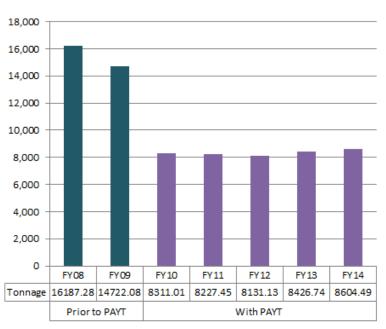




City of Concord – Immediate PAYT Results



Residential MSW FY08 - FY14



Residential Recycling FY08 - FY14



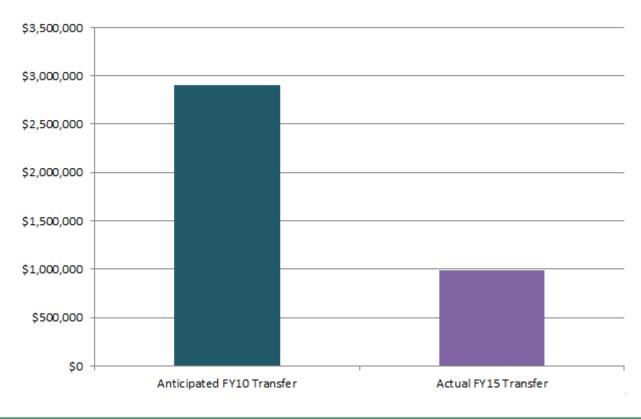




City of Concord – Longer Term PAYT Results

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General Fund Transfers to the Solid Waste Fund











- Communication with outlets is key
- Bag quality must be superior
- Illegal dumping concerns



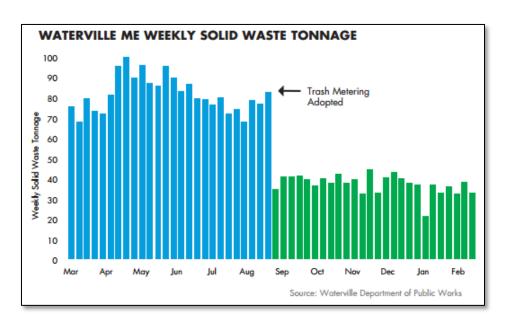


PAYT Results—Waterville ME

Using Pay-as-You-Throw to Bring Curbside Recycling

Waterville, Maine—population 16,000—uses its PAYT program, which began in 2014, to help finance curbside single-stream recycling. The program was exceeding all targets at the six-month mark.

In June 2015, Waterville residents soundly rejected an effort to repeal the program, voting 2:1 in favor of keeping their program.



Bag-based PAYT with weekly curbside trash and biweekly single-stream recycling collection 16,000 population

In the program's first 6 months:

- 53% decrease in solid waste tonnage
- \$78,000 in disposal savings
- 1,075 tons of solid waste diverted







PAYT Results—Sanford ME

The Power of Pay-as-You-Throw

In July 2010, the City of Sanford instituted a bag-based PAYT program. Trash volume dropped by nearly half. Four months later, the town repealed the program, and trash tonnage shot up. In September 2013, Sanford reinstated PAYT, with impressive results.

SANFORD, MAINE, SOLID WASTE VOLUME, 2010 - 2014 140 Trash Metering Reinstated Trash Meterina 120 Adopted Solid Waste Tonnage 100 Trash Meterina 60 40 2010 2011 2012 Source: Sanford Public Works Department Bag-based PAYT with both curbside and drop-off trash and single-stream recycling disposal 21,000 population

The program's results:

- > 40% decrease in solid waste
- \$24,000/mo in disposal savings
- Recycling rate nearly doubled



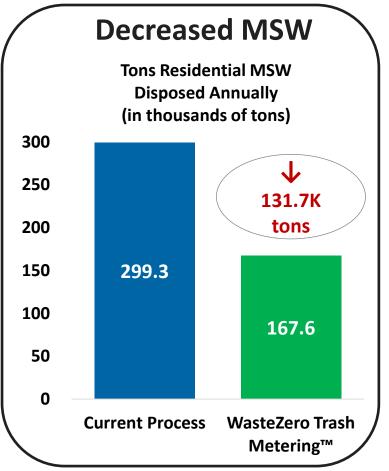




PAYT in New Hampshire—MSW Decrease

If New Hampshire's remaining non-PAYT communities implemented Trash Metering—and tag and overflow towns were also to convert—trash tonnage would be cut by a projected 132,000 tons per year.





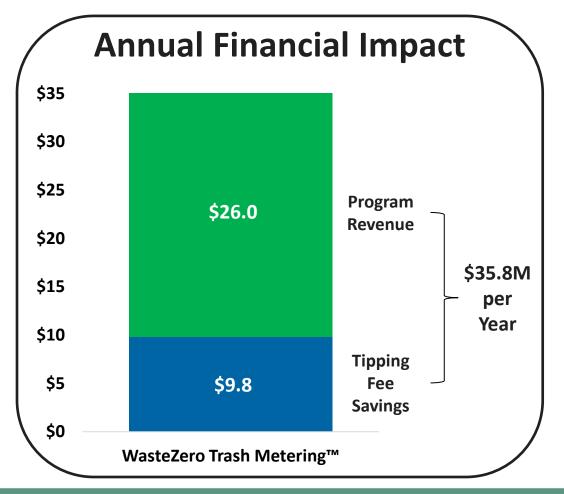




PAYT in New Hampshire—Financial Impact

The financial benefits: a projected \$9.8 million in annual tip fee savings, as well as \$26 million in revenue.









PAYT in New Hampshire—Environmental Impact

CO2e (Greenhouse Gas)

Annual Reduction

248,000Metric Tons



Annual Reduction

2,067,000Million Units

- Reduced carbon footprint
- Less pollution
- Healthier environment for residents



- Reduced costs
- Reduced carbon footprint
- Increased energy security



Equivalent to:



Removing

49,000

passenger vehicles from the road

or

Reducing gasoline consumption by

27,800,000

gallons



Equivalent to:



Powering

18,000

residential homes

or

Installing

256,000

rooftop solar panel arrays



Source: EPA WARM Model





Best Practices—Messaging and Public Engagement

Community Education & Engagement



Community
Outreach Meetings



Message/



Resident Education Materials





Resident-Facing Web Site

Pre-Implementation Support



Ongoing Support

Public & Media Relations



Coordination With Local Media



"Success Stories" at Program Milestones





Thank You to our Presenters!





Stephen Lisauskas

www.wastezero.com

Vice President

slisauskas@wastezero.com

617-821-5933



Adam Clark

Solid Waste Manager
City of Concord
603-230-3912
aclark@concordnh.gov









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Mission Statement

The New Hampshire Municipal Association is a non-profit, non-partisan association working to strengthen New Hampshire cities and towns and their ability to serve the public as a member-funded, member-governed and member-driven association since 1941. We serve as a resource for information, education and legal services. NHMA is a strong, clear voice advocating for New Hampshire municipal interests.



