



Assessing the Impact of Pay-As-You-Throw (PAYT) and Outlining a Path to Implementation

Proposal for the Town of Lewisboro, NY

September 2015

About WasteZero

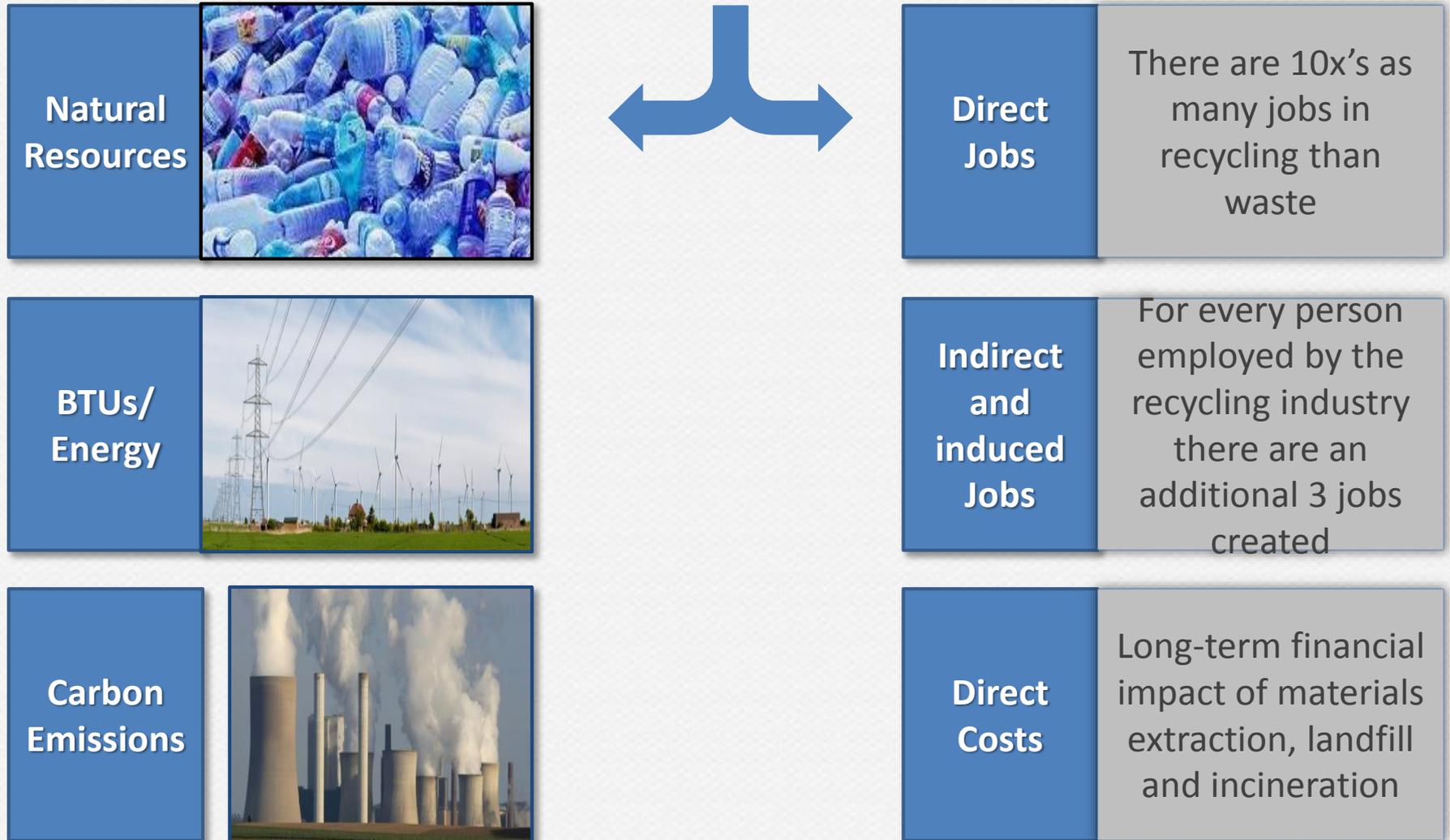


WasteZero is the only firm in the US that can analyze a municipality's waste situation, design the optimal waste reduction program, and then fully implement and manage the program on an ongoing basis.

- 100% driven to cut trash in half across the US
- In business since 1991
- Is the national leader in municipal waste reduction
- Helps municipalities reduce waste, increase recycling, & save money
- Offers a range of waste reduction solutions, with a specialization in PAYT
- Has a **100% success rate** with WasteZero-designed programs: **44% average waste reduction and 44% average reduction in disposal costs**
- Is a certified B Corp, meeting rigorous social & environmental standards
- Is based in Raleigh, NC, with regional support around the nation



The Trash Problem: Environmental & Economic



The Cause of the Problem: Lack of Utility Pricing



Electricity



Gas



Water



Residents pay for most utilities based on how much they use. Trash is different: In most places, trash is the last unmetered utility.

1 Fixed cost

2 Request

3 Unlimited

| Service | UNIT | RATE | AMOUNT |
|-----------------------------|------|------|---------|
| Water Administration | | | \$1.00 |
| Water Supply Fee | | | \$1.00 |
| Public Water Administration | | | \$1.00 |
| Water Supply Charge | | | \$1.00 |
| Wastewater Treatment | | | \$1.00 |
| Solid Waste | | | \$25.00 |
| Non-revenue Total | | | \$30.00 |



The fixed cost payment model creates inefficiencies, wasting financial, operational, and environmental resources.

A Powerful Solution: Pay-As-You-Throw = SMART

With PAYT, residents pay for trash based on how much they generate. If they recycle more and throw away less, they pay less. The economic incentives to reduce waste are strong.

Benefits:

- ✓ Solid waste is reduced
- ✓ Recycling increases
- ✓ Collection and disposal costs drop
- ✓ The environment is improved



The Bag-Based PAYT Model: SMART

Bag-based PAYT is an easy, effective, and inexpensive system to reducing residential solid waste.

1 Reduce or eliminate fixed cost

| Service | Rate | Quantity | Amount |
|-------------------|------|----------|---------|
| Basic Collection | | | \$2.00 |
| Basic Recycling | | | \$2.00 |
| Basic Yard Waste | | | \$2.00 |
| Basic Other | | | \$2.00 |
| Basic Total | | | \$8.00 |
| Administrative | | | \$3.00 |
| Service Charge | | | \$0.00 |
| Non-payment Total | | | \$11.00 |

Solid Waste \$11.00

2 Pay per Bag for Trash



3 Less MSW, More Recycling



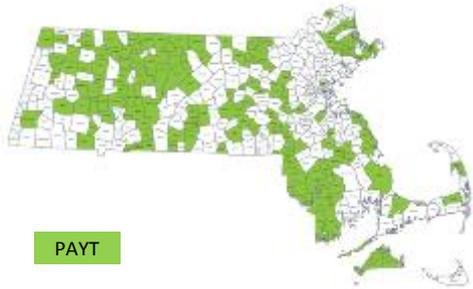
- Fairest to residents
- Easiest to implement
- Most effective

- No direct cost to municipalities
- Works with any collection method, automated or manual

Similar Efforts in Other States

SMART has a strong presence in the Northeast. The experience of municipalities in this region can be productively applied in Connecticut.

Massachusetts



- 41% of MA's cities and towns use PAYT.
- Average waste reduction in bag-based communities has been 44%.
- The latest city to adopt PAYT, Fall River, is exceeding its goals.

Rhode Island



- Currently, 6 of RI's 39 municipalities have PAYT.
- Rhode Island Resource Recovery Corporation (RIRRC), which handles all of RI's solid waste, is currently designing a uniform statewide PAYT program for RI.

Maine

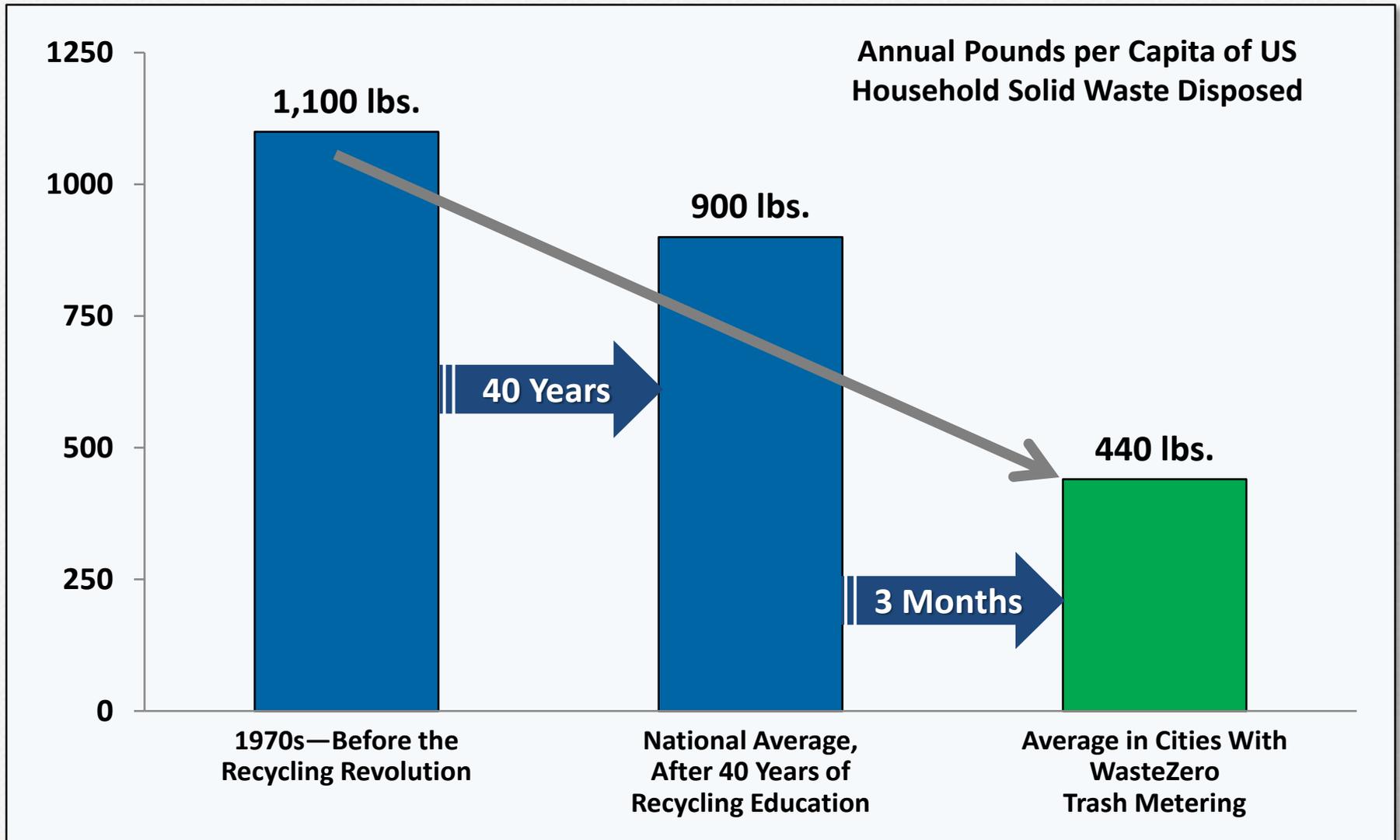


- 31% of ME's 1.33 million people (about 417,000) live in PAYT towns.
- Average waste reduction in bag-based communities has been 44%.
- 33 additional towns with a combined total population of more than 400,000 are also currently considering SMART/PAYT.

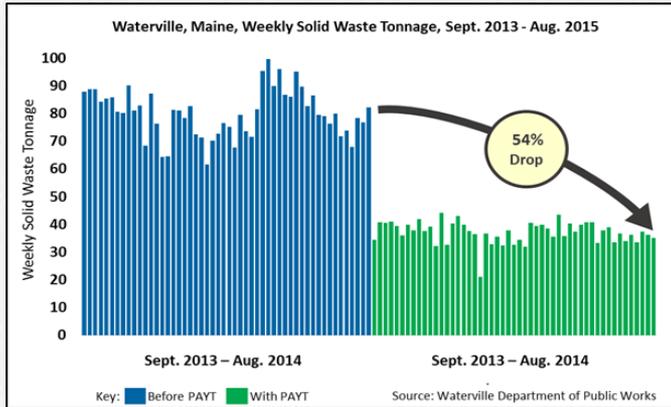
In addition, unit-based pricing for solid waste is mandatory in Minnesota, Oregon, Vermont, and Washington; Massachusetts is also considering this move.



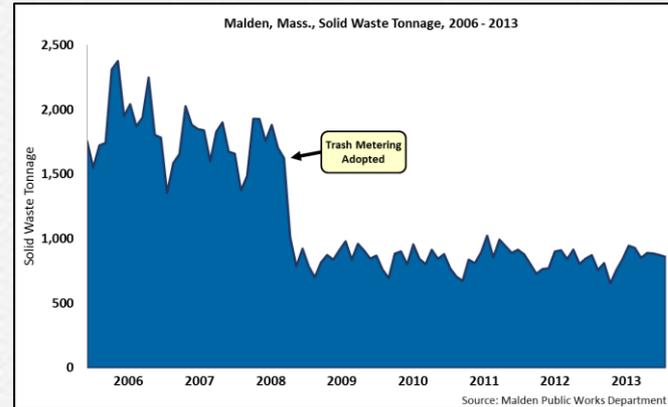
The Most Effective Method



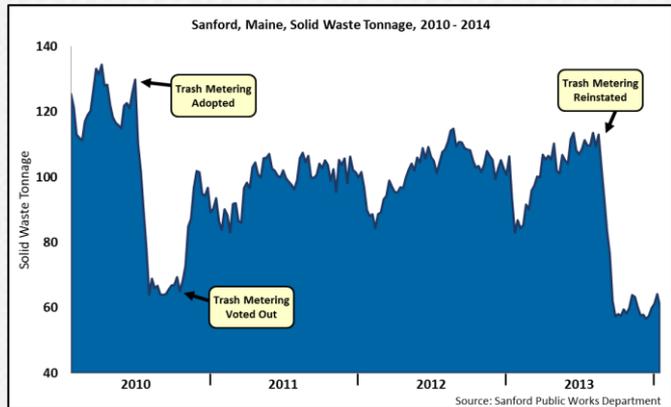
Pay-as-You-Throw Results: MSW Reduction



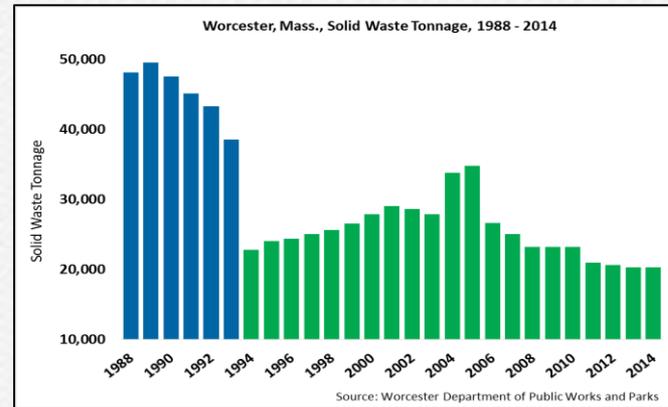
WATERVILLE, MAINE
54% DECLINE IN MSW IN 1 YEAR



MALDEN, MASS.
52% DECLINE IN MSW OVER 5 YEARS



SANFORD, MAINE
41% DECLINE IN MSW IN 3 MONTHS



WORCESTER, MASS.
55% DECLINE IN MSW OVER 21 YEARS

Strong Support for Pay-as-You-Throw

In a Public Policy Polling survey of almost 1,000 PAYT participants from 10 communities, significant majorities said they are satisfied with PAYT, see it as fair and easy to take part in, and believe it is effective.

- ***Favorability***

79% have either a very or somewhat favorable opinion of PAYT, with an outright majority (52%) having a very favorable opinion.

- ***Fairness***

More than two-thirds—68%—see the program as fair.

- ***Ease of Participation***

74% think it is not difficult to take part in PAYT.

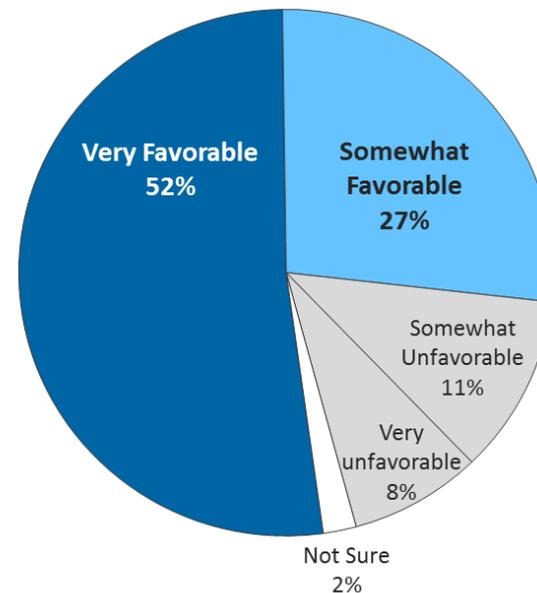
- ***Effectiveness***

89% said PAYT is performing better than or as well as they expected.

- ***Minimal Political Impact***

77% said they are either more likely to vote for leaders who brought in PAYT or that it does not make a difference in their vote.

Participants in Pay-as-You-Throw Programs Have a Highly Favorable View of Them.



Do you have a favorable or unfavorable opinion of pay-as-you-throw?

Source: Automated telephone survey of 991 residents of communities with bag-based pay-as-you-throw programs, conducted by Public Policy Polling Feb. 21-25, 2014.

Project Overview

This proposed project has six key components.

- 1** **Waste Snapshot** Understand current situation and gather baseline data
- 2** **Program Recommendation** Outline recommended PAYT program and collection protocol
- 3** **Benefits Analysis** Estimate the program's financial and environmental benefits for the Town; Estimate impact on residents
- 4** **Stakeholder Meetings** Educate key stakeholders in Town government regarding the program
- 5** **RFP Language** Assist in drafting RFP to solicit bids for collection and disposal, coordinated with a PAYT program
- 6** **Bids Review** Assist in reviewing incoming bids, as appropriate