PAY AS YOU THROW-IMPLEMENTATION STRATEGIES

Wednesday, February 27, 2019 NH DES Training

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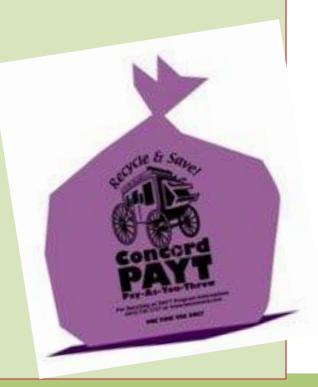
AKA

Unit-Based Pricing, Variable Rate Pricing, User Pay, or SMART (Save Money and Reduce Trash)

OPTIMAL PAYT SYSTEM: MEASURES THE AMOUNT OF INDIVIDUAL WASTE COLLECTED & CHARGES THE WASTE PRODUCER A FEE EQUAL TO THE COST OF **GENERATION**

PAYT AROUND THE COUNTRY

- Two states mandate: Vermont & Minnesota
- At least 34 towns in NH
- 7,100 communities in the US
 - ✓ Massachusetts 59%+
 - ✓ Iowa 56%+
 - ✓ California 50%
 - ✓ New York State 42%



PAYT IMPLEMENTATION

- Measure waste by weight or volume
- Volume-based models use a range of "units" for identifying how charges will be levied
 - ✓ Bags, tags, containers RFID

DESIGN VARIABILITY

- "Full-unit pricing"
 - ✓ Users pay for all the garbage they dispose
- "Partial-unit pricing"
 - ✓ No charge for disposal of set base amount
 - ✓ Additional bags or containers paid for by the resident

DESIGN VARIABILITY, cont.

- "Variable-rate pricing"
 - Residents choose to rent a container or purchase bags
 - Price corresponds to the volume

BAG SYSTEMS

- Imprinted trash bags
 - ✓ Varying sizes 20-35 gallon bags
- Price covers bag cost & part or all of the cost of hauling/disposal
- Drop-off or curbside collection
- Avoids need for billing



STICKERS

- Stickers are purchased to affix on specific sized bags or containers
- Price of sticker covers the cost of the sticker & part or all of the cost of hauling and disposal
- Applicable for curbside collection or drop-off
- Avoids need for billing

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PER BAG PUNCH CARDS

- Residents purchase punch cards
- Price is based on the number of dots or bags offered on the card
- Drop-off facility operators punch the dots for each bag disposed
- Not appropriate for curbside collection
- Avoids need for billing

CARTS OR CANS

- Increasing charge for larger containers or collection of multiple containers of same size
- Haulers may charge flat fee per cart to defray embedded hauling cost, but must add unitbased disposal charge per container
- Used primarily for curbside collection
- Requires billing system



HYBRID

- Residents receive a smaller limited volume of service for flat fee or "no cost"
- Additional containers or bags incur a cost
- Allows for phase in of PAYT into existing town or municipal system

WEIGHT-BASED SYSTEMS

- Containers, bags, or vehicles are weighed
- Charged on weight of trash disposed
- Drop-off or curbside programs
- Requires billing or direct payment to drop-off center operators

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CONTAINER&PRICING CHOICES

CITIZENS ADVISORY COMMITTEE

- Advantages & Disadvantages
- Role: evaluating the available options for solid waste management & funding
 - ✓ PAYT is a natural fit for these groups
- Define goals & expectations
- Define role in the decisionmaking process

IDENTIFICATION OF PAYT GOALS

- Why the municipality is interested in pursuing a PAYT program?
- Political considerations?
- Goals and interests of other stakeholders?

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IDENTIFYING PROGRAM GOALS

MUNICIPAL PROFILE

- What background information is necessary to make informed program design decisions?
- Serves as a guideline for ensuring that all necessary information about current waste and recycling activities is compiled for making program design decisions

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DISCUSS & REVIEW COMPLETED MUNICIPAL PROFILES

LEGAL AUTHORITY/LEGAL ISSUES

- Does the municipality/town of legal authority to implement a PAYT program?
- Can the municipality/town require haulers to participate?
- Draft & enact any necessary ordinances to charge a variable rate for waste collection

LEGAL AUTHORITY/LEGAL ISSUES

- Draft & enact any additional necessary & complementary ordinances
 - Banning waste burning & illegal dumping
 - Limiting container weights
 - Add additional items for recycling
 - Prohibiting use of unauthorized containers
- Define enforcement responsibilities
 - Work with police & health departments

POLITICAL CONSIDERATIONS

- What are the barriers to implementing PAYT? Possible Solutions?
- Understand what the concerns may be & how to respond
- Understand the decision-making process in your municipality/town in order to move the project forward successfully

INITIAL POLITICAL AND CITIZEN CONFUSION AND RESISTANCE TO PAYT PROGRAM IMPLEMENTATION IS LIKELY TO OCCUR AT LEAST ON SOME SCALE.

POLITICAL CONSIDERATIONS

- Which elected officials/decisionmakers/stakeholders already support PAYT; which do you think might support PAYT if they knew more about it?
- What are citizen activists saying? How can they be persuaded?
- Who are typical allies in PAYT? Environmental activists, seniors, others?

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POTENTIAL BARRIERS & POLITICAL CONSIDERATIONS

ADDITIONAL PLANNING TASKS

- Develop & implement policies for:
 - ✓ Accommodating low-income residents, physically handicapped, & elderly residents
 - Accommodating residents of multi-family units
- Develop procedure for gathering & analyzing data on waste generation amounts & costs
 - ✓ Conduct baseline data collection

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GROUP DISCUSSION OF THE ABOVE FACTORS & ANY OTHERS THAT COME INTO PLAY WHEN MAKING THIS DECISION

COST INFRASTRUCTURE & RATE STRUCTURE DESIGN

- What costs do you want your PAYT system to include?
- Consider the philosophical, political, & economic influences in your community

COST INFRASTRUCTURE & RATE STRUCTURE DESIGN

- Step 1: Waste Collection Forecast
 - ✓ Estimate the amount of waste you will be collecting under Pay-As-You-Throw
- Step 2: Estimate your program costs & the cost of any complementary programs

- Will all costs associated with collection and disposal of MSW and recyclables be included in the PAYT program?
- Or, just a portion of those costs in the PAYT program? If only a portion, which costs are they? Why?

- What are the costs?
 - Fixed and variable MSW, Recycling, other complementary programs
- Should there be a sliding scale for cost of disposal?
 - Based on what?

- Should there be a cost associated with recycling?
- What are the costs associated to MSW, recycling, C&D, yard waste?
 - ✓ Tipping/handling fees? Hauling? Processing?
 - ✓ Which should be included?

- Should the town/facility implement a mandatory recycling ordinance?
- Or, other mandate to go along with this message & help increase diversion?

KEY FINANCIAL ASSUMPTIONS

- How is the program going to affect existing solid waste & recycling operations?
- Does the town need to reconfigure their transfer station in order to make this work?

KEY FINANCIAL ASSUMPTIONS

- Step 3: Estimate the per container price (or per bag, volume) needed to meet program costs
- Prices will be dependent on two things
 - ✓ Type of PAYT program planned
 - ✓ Assumptions regarding the specific costs the PAYT program are proposed to cover
- Develop/test the rate structure, budgeting & tracking systems

WORKSHEET SION GROUP DISCUSSION

RATE STRUCTURE DESIGN

PUBLIC OUTREACH

- What are the public outreach goals for the program and how will they be achieved?
- Who are the targeted stakeholders?
 - ✓ Decisionmakers, residents, haulers, businesses, seniors, multi-family property management/residents, low income residents, seasonal populations, others

PLANNING AND DESIGN PHASE

- Soliciting feedback
- Feedback should be initiated during the planning stage, through outreach, surveys, involvement of a citizen taskforce.

SCUSSION

WHAT ARE TARGET
AUDIENCES FOR INITIAL
FEEDBACK?

HOW CAN THEY BEST BE REACHED?

IMPLEMENTATION PHASE

- Outreach during the implementation phase begins during the final design
- Planning the education and outreach campaign: Informing residents about how to participate (where to buy bags, any changes to the recycling program, complementary programs being added or modified, how to handle bulky items, etc.)

IMPLEMENTATION PHASE

- Develop outreach materials & schedule briefings and presentations
- Create a phone bank hotline for the first few weeks of program operation

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WHAT TYPES OF OUTREACH MATERIALS SHOULD BE DESIGNED?

WHAT MESSAGES ARE IMPORTANT TO RELAY?

IMPLEMENTATION SCHEDULE

Tasks and Staff Training

- Reassign collection & management staff as needed to new roles in outreach, enforcement, & administration
- Determine ongoing administrative tasks that will be associated with the program (billing, accounting procedures, program maintenance, etc.)

IMPLEMENTATION SCHEDULE

- Prepare staff to address resident concerns
 & questions
- Develop a phase-in strategy
 - ✓ Collect all wastes for several weeks
 - ✓ Leave "error tags" to educate customers that only correctly paid & packaged trash will be collected in the future

IMPLEMENTATION SCHEDULE

- Work with retail establishments to carry bags, if necessary.
- Consider working with the business community to ensure that they lock their dumpsters to prevent illegal dumping.
- Address specifics for each system: Bag-and tag; Can-based; Weight-based; Hybrid)

ROUP DISCUSSION STATES

WHAT OTHER TASKS MAY BE NECESSARY?

PROGRAM MAINTENANCE, MONITORING AND EVALUATION

- Setup an ongoing system for program maintenance, monitoring and measurement
- Quantity of bags being ordered; if different size bags are being used, what is the ratio of use (e.g., two 33-gal. bags are purchased for every one 20- gal. bag); are enough bags being purchased?

PROGRAM MAINTENANCE, MONITORING AND EVALUATION

- Storage and distribution mechanisms are they effective?
- Accounting and billing procedures do they need adjustments? Waste generation
 - is it showing a reduction? How much?

PROGRAM MAINTENANCE, MONITORING AND EVALUATION

- Recyclable collection is it showing an increase? How much?
- Rate structure is it adequate? Public education – are residents receiving frequent reminders and 3R instructions?
- Enforcement are residents participating correctly? Is there illegal dumping?

NERC CAN HELP

We're experts in

- Waste reduction & recycling
- Recycling program design & implementation
- Food scraps/Organics management
- Green procurement
- C&D reuse & recycling
- Electronics recycling
- School reuse, recycling & composting
- Textile recycling programs
- Multi-stakeholder dialogues & negotiations
- & More!

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