



WENCK
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WASTE MANAGEMENT PLANNING

Understanding Cost and Revenue

WASTE MANAGEMENT PLANNING

Agenda

- Purpose
- Why
- Components of a Plan
- Cost and Revenue
- Value



Purpose

- Provide for safe, legal, proper management of waste materials
- Promote health, welfare, and safety of the public
- Protect water, air, and land resources
- Evaluate achievements, challenges, and opportunities

Why?

- Better serve your constituency – Are you meeting their needs?
- Evaluate current program
- Plan for Future Needs
- Understanding Cost and Revenue Factors
- Substantiate a need for funding/funding assistance
- Build Regional Consensus
- Driven by a requirement

Components of a Plan

- Description of Existing Waste System
 - Collection
 - Handling
 - Disposal
 - Diversion Efforts and Effects
- Future Waste Projections
 - Population and Economy
 - Types and Quantities
 - Market Evaluation



Components of a Plan (continued)

- Alternatives
 - Services
 - Facilities
- Selected Waste Management Strategies
- Implementation Plan
 - Strategies
 - Schedule
 - Financial

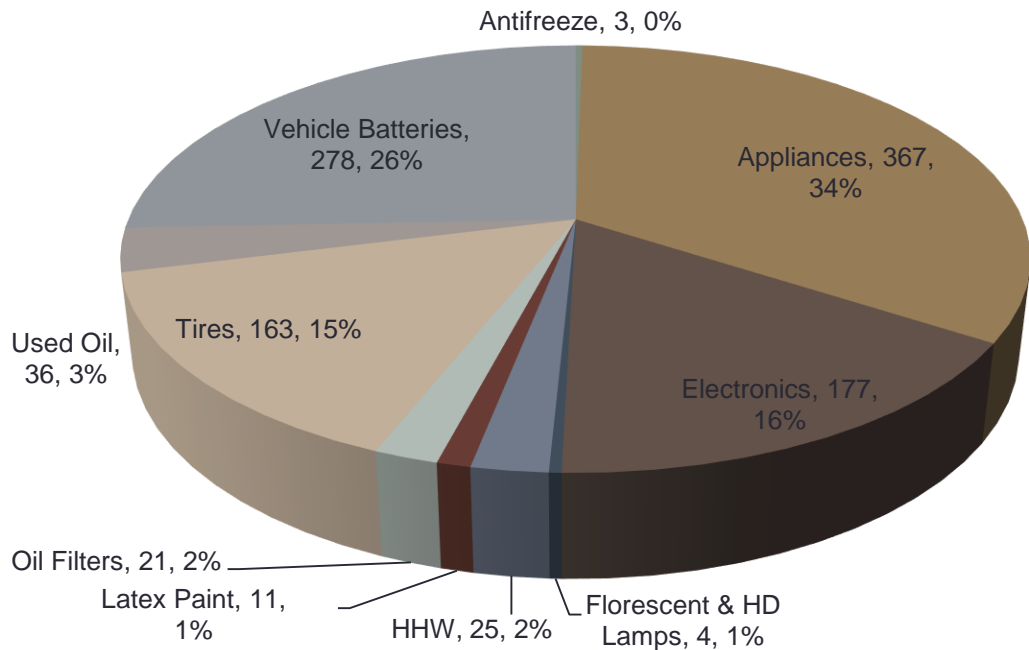
Typical Programs

- Collection
 - MSW
 - Recycling
 - Compostable/Yard Waste
 - Special Collection – Clean-up Event
- Handling
 - Material Recovery
 - Household
 - Tires, Batteries,
 - Electronics
 - Medical/infectious



Typical Programs (continued)

- Disposal
 - Landfill
 - Compost
 - Management (HHW)
 - Waste-to Energy
- Diversion
 - Re-use/Re-Purpose
 - Beneficial - use



Cost Considerations

Typical Facilities or Components

Facilities – Infrastructure,

- Administration Building(s)
- Transfer stations
- Recycling center, depots and drop-offs
- Landfills (MSW, C&D, DAW, industrial/special waste, ash)
- Material Recovery
- Waste-to-Energy
- Leachate Treatment
- Environmental Monitoring/Permitting/Remediation
- Gas Collection

Cost Considerations

Typical Facilities or Components

Components

- Personnel,
- O&M,
- Replacement/Upgrade
- Collection System
 - Localized, regional, self-haul
 - Personnel
 - Equipment
 - Maintenance and Repair
- Public, Private or Combination

Revenue

Tipping Fee

- Transfer Station/Landfill(s)
- Special Wastes (petro-contaminated, tires, asbestos, etc.)
- Specific items (appliances, mattresses, electronics, etc.)

Service Fee (Typically covers)

- Collection (MSW, recycling, organics)
- Clean-up events
- Education

Recovery/Re-use Revenue

- Compost
- Waste-to Energy (steam/electricity)
- Landfill Gas-to Energy

Cost/Revenue Items – Often Overlooked

- Services/Support provided to other departments
- Services/Support provided by other departments
- Infrastructure/Equipment Costs
 - General Site/Building O&M
 - Smaller Ticket Items
- Community Initiatives

Cost/Revenue Items – Often Overlooked

- Changing Regulatory Requirements
- Contamination Assessment/Remediation
- Disasters
- Separation of Services
- Population Changes
- Reserves – for long term planning

Value

- Understanding what it is...so it can be conveyed to decision makers, the community and others
- Evaluate achievements, challenges, and opportunities
- The ability to be prepared, long-term

Thank You!

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