ZERO Waste



Proposed Strategies Report Joint Water and Climate Policy Board



JUNE 14, 2021

Welcome and Introductions

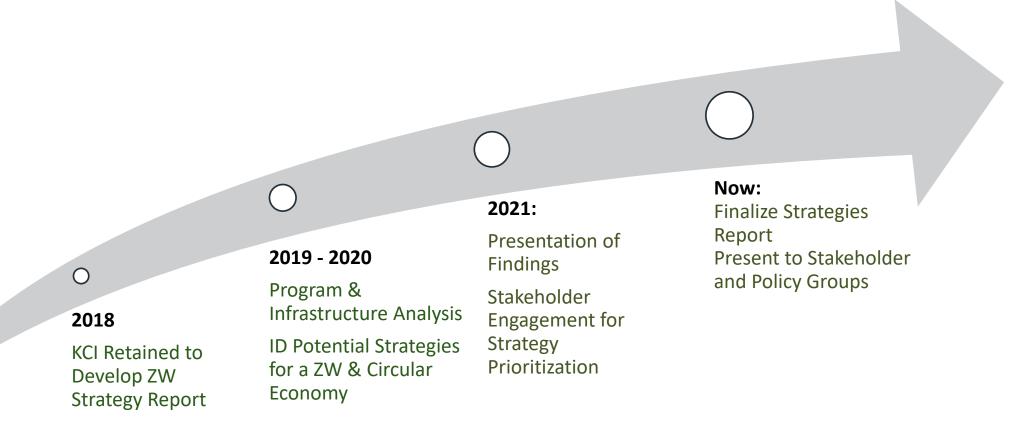


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Project History



Background

Zero Waste in Alachua County



Defining Zero Waste

The conservation of all resources by means of responsible production, consumption, reuse and recovery of products, packaging, and materials by minimizing discharges to land, water, or air that threaten the environment or human health.

Guiding Principles of the Strategies Report

01

Keep Resources Local 02

Foster Job Growth 03

Emphasize and Support Upstream Solutions 04

Mitigate Climate Change 05

Address
Environmental
Justice and
Create Equity
of Service

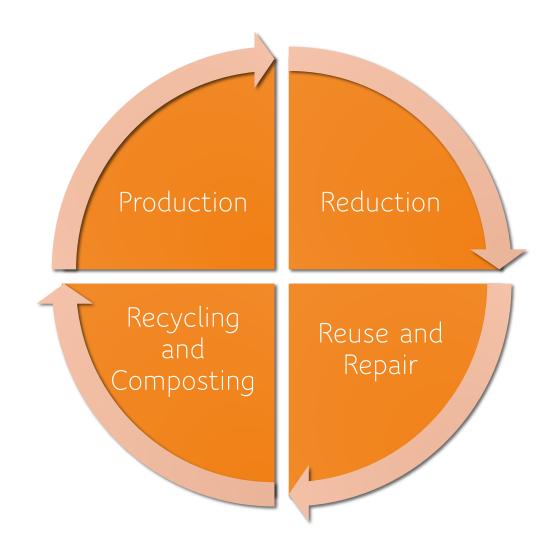


All Waste Is Local

The Linear Economy

Take Make Dispose

Understanding Community-Wide Zero Waste





Source: U.S. Public Interest Research

UPSTREAM

Maximize resource efficiency and waste prevention through producer responsibility, product redesign, Zero Waste purchasing, and policies that promote a circular economy.

MIDSTREAM

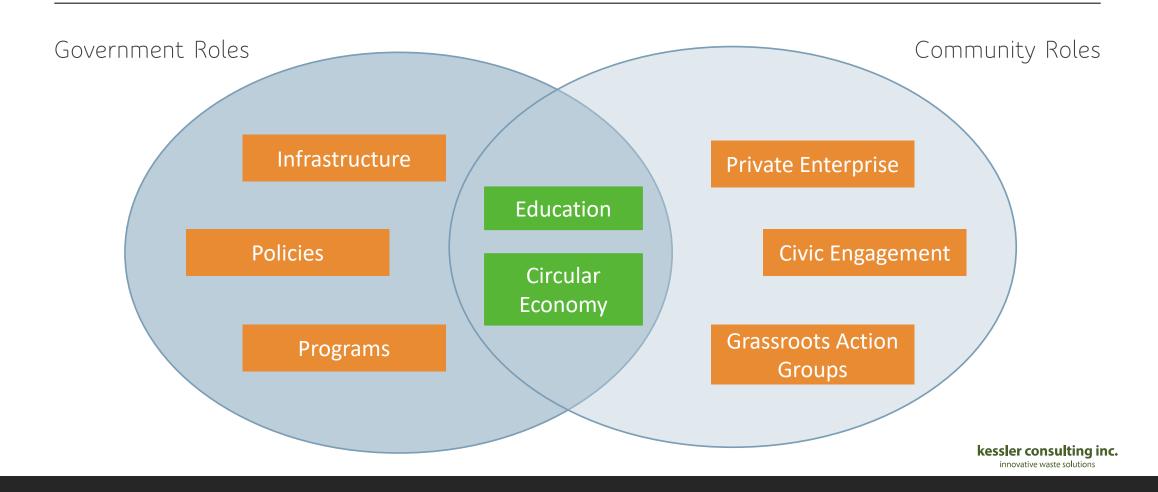
Maximize resource longevity through reuse, repair, repurposing, donations, and food recovery.

DOWNSTREAM

Maximize resource recovery through recycling, composting, and other recovery options.

Source: "Three Categories of Zero Waste Solutions" SWANA, CRRA Zero Waste Training Program (Developed by Kessler Consulting, 2018)

The Players and Their Roles



Alachua County and City of Gainesville Roles



Infrastructure



Policies



Programs

Waste Diversion Analysis: Key Findings



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Limited compost facilities (food waste)

- Limited C&D processing facilities
- No large-scale re-use facility
- No regional material reprocessing facilities



Policies

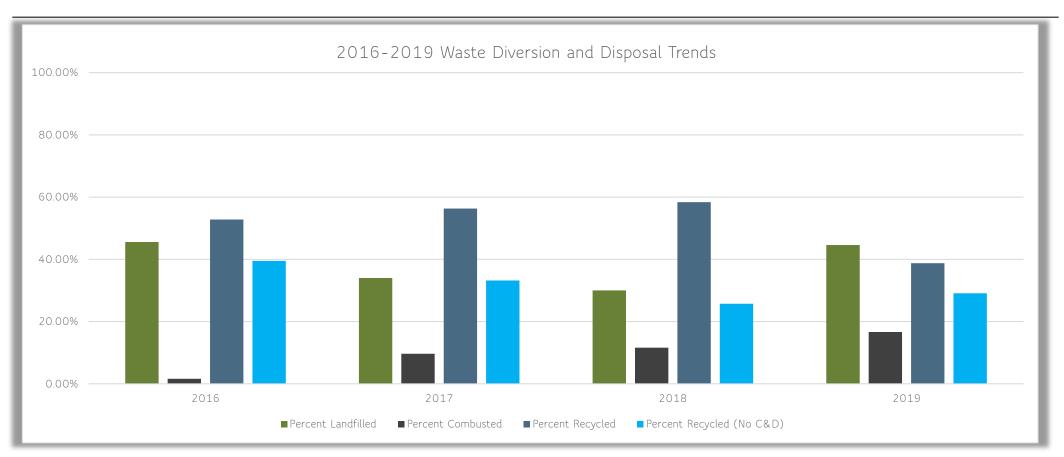
- Need for Waste Reduction or ZW Goal
- Policy drivers need to include ZW
- · Solid Waste Ordinance



rograms

- Increased O&E programming on recycling, reuse and ZW
- Limited Food Recovery Networks
- Need for uniform community-wide recycling

Waste Characterization

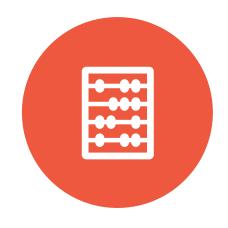


Current Programs and Initiatives

- Pay-As-You-Throw SW rate structures
- Mandated Commercial Recycling
- Multiple Reuse Stores and Facilities
- Hazardous Waste Diversion



Potential Strategies



GENERAL STRATEGIES



ORGANICS MATERIAL RECOVERY



RECYCLABLES AND C&D RECOVERY



General Strategies





Organics Material Recovery





Recyclables and C&D Recovery





Phase 1 Strategies

Section 1.	General Recommendations
In Progress	Establish a Solid Waste Reduction Goal and Formalize by Adopting a Resolution on Zero Waste.
In Progress	Implement Zero Waste Procurement Policy.
In Progress	Reduce Single-Use Accessories in Dining, Take-Out and Delivery of Prepared Meals.
In Progress	Establish Public and Private Partnerships to Facilitate Innovative Research and Develop New Technologies for Managing Solid Waste in Alachua County and City of Gainesville.
	Develop Partnerships with the Private Sector to Implement a Large-Scale Reuse Program.
	Revise Future Contracts and Franchise Agreements with Collections and Processing Vendors to Include Requirements and Incentives Addressing Zero Waste.
Section 2.	Organic Material Recovery
In Progress	Develop a Plan to Phase Organics from Garbage Collection.
In Progress	Expand Food Recovery Networks to Include Alachua and Gainesville Food Pantries.
	Add Incentives to Current Residential Backyard Composting Programs and Expand.
	Establish the Processing Infrastructure Necessary for Diverting Organic Materials from the Waste Stream.
Section 3.	Recyclables and C&D Material Recovery
In Progress	Ban Single-Use Plastics and Polystyrene on City and County Properties and at City and County Events.
In Progress	Expand Existing Mandatory Commercial Recycling Ordinance.
In Progress	Establish Uniform Multi-family Recycling.
	Conduct an Analysis of Recycling and Disposal Fees to Identify Methods for Discouraging the Landfill of Material.
	Expand the Reach of the Business Recycling Toolkit to all Municipalities within the County.
	Support Organizations Working on the Implementation of Take-Back Programs.

Phase 2 Strategies

Section 1.	General Recommendations
	Develop a Community-Wide Zero Waste Recognition and Certification Program.
	Provide Clear, Concise and Consistent Educational Messaging Across the County and City for All Zero Waste Strategy Approaches.
	Evaluate the Waste Reduction Impacts & Potential Capacities for Expansion within Existing Reuse Infrastructure.
Section 2.	Organic Material Recovery
In Progress	Develop Infrastructure for the Collection of Organic Materials.
	Build Upon Recycling Outreach and Education Programming to Include Organic Material Diversion.
Section 3.	Recyclables and C&D Material Recovery
	Revise Building Code Standards or Green Building Ordinances to Address Zero Waste Initiatives for C&D Material Diversion.
	Foster the Expansion and New Development of C&D Reuse and Recycling Facilities for the Region.
	Foster the Development of Regional Reprocessing Facilities.
	Conduct Operational Analysis of Current Material Recovery Facilities (MRFs) to Ensure High Performance Rates that Support Zero Waste.
	Establish Uniform Recycling Messaging and Improve Coordination (during events such as student moveout).

Phase 3 Strategies

Section 1.	General Recommendations
	Create Incentives for Businesses and Institutions to Adopt Policies Focused on Reduction of Problematic Materials.
Section 2.	Organic Material Recovery
	Market Final Compost Product Throughout Community and Provide Education on Importance of Soil Restoration.
Section 3.	Recyclables and C&D Material Recovery
	Adopt New Ordinances Banning Specific Recyclables from Entering Local Transfer Stations, Landfills, and Incinerators.
	Adopt an Ordinance to Incorporate Reusable and Recyclable Materials into Local Government Road Construction and Maintenance Projects.
	Conduct a Feasibility Study on the Development of a Regional CHaRM Facility for Processing Bulky Materials.
	Consider the Use of Waste-to-Energy to Address Difficult to Recover Materials and Waste Streams.
	Adopt a Single-Use Plastic Bag Ban.
	Create a Single-Use Plastics Ban (plastic food ware, Styrofoam) and Litter Reduction Ordinance.
	Create Processes for Stakeholder Involvement Throughout Decision Making and Implementation Phases.
	Establish Dedicated Staff for Zero Waste Outreach and Education Activities at the County and City



Questions and Answers







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