

Solid Waste Master Plan Report 2018

In 2012 Kessler Consulting, Inc. submitted a comprehensive Solid Waste Master Plan: Establishing a Pathway to Zero Waste. This is a review of the plan and report of where we are in achieving goals set in the 2012 Solid Waste Master Plan and to add a timeline to these goals.

Program Goals were laid out in Phases to help the program grow and to increase the amount of recycling and reach the goals for recycling set by the State. Recycling percentages were also added to the goals to corollate with the States 75% recycling goal by 2020. These were recommendations, but encouraged if the time was right not to wait.

Program Recommendations	Residential	Commercial
Phase 1 (1-2 years) 25%	<ul style="list-style-type: none"> • Recycling Carts • Yard waste; 1-1-1 • Multi-family • Outreach & education 	<ul style="list-style-type: none"> • Recycling collection \$ less than SW collection \$ • All recyclables • Green the City • Outreach
Phase 2 (3-5 years) 40%	<ul style="list-style-type: none"> • Organics • Pay-As-You-Throw/incentive program 	<ul style="list-style-type: none"> • Toolkit & education • Technical assistance • Incentive program • Organics
Phase 3 (5-10 years) 75%	<ul style="list-style-type: none"> • Mixed waste processing • Enforcement 	<ul style="list-style-type: none"> • Mixed waste processing • Mandates & enforcement

The City of Key West Sustainability Board presented report to the City Commission with their top priorities for FY 2018, with reducing the waste stream was the number one priority. Their priorities overlapped many of the recommendations and goals in the Solid Waste Master Plan and are highlighted in a **dark green font**.

City Accomplishments since the 2012 Report

Phase 1

- Switched to carted single stream collection and expanded materials excepted in program
- One day a week collection of garbage, recycling and yard waste on same day
- Started program to collect and process yard waste separately
- Included all multifamily units in recycling program
- Outreach and education program for residents
- Lowered cost for Commercial Recycling service
- Monitor commercial recycling monthly via required monthly reports from vendor
- Outreach program for commercial recycling
- **Toolkit for Commercial Recycling**

Other recommendations accomplished since 2015

- Hired full time Recycling Program Manager, July 2015
- City ordinance that requiring areas for recycling
- Recycling collection at all City facilities and increased public outreach
- Special events required to have a recycling plan
- New special events worksheet which included guides, checklist and recycling reporting forms
- Created one source for Special Events containers, signs and collection with the City
- Continuing to work with Fantasy Fest organizers to improve recycling during FF
- Key West Recycles branding with logos and slogan
- Started First Saturday HHW collections for City Residents for no charge

Staff plans for reaching other recommended steps in Solid Waste Master Plan

- Residential
 - Enforce mandatory recycling
 - **1st year Education and Noticing**
 - **Use staff and volunteers. Reach out to current volunteers, City Ambassadors and other civic groups to volunteer with on the streets surveys, networking, noticing.**
 - **Once a week survey one street (determine area size) before any waste pickup. Note set out rates for garbage, recycling and yard waste. Note contamination levels. Leave notes. Talk to residents.**
 - **More door to door and recycle right outreach**
 - **Continue and increase marketing campaign for radio, TV and newspaper**
 - **Continuous updating of websites and social media**
 - **Add compost collection**
 - **Have requested pricing from Waste Management. Currently starting compost collection for all residents will cost approximately the same amount as garbage collection, which is \$8.55 a home (or a little less). Handling would also be the same as other materials and an increase in hauling due to distance.**
 - **Other options would be an RFP as compost is open market.**
 - **Pay-As-You-Throw**
 - **Recommended to use if no significant increase is seen in residential recycling in first few years.**
 - **PAYT is a system that provides different size garbage carts for collection and resident pays more for larger garbage and less for smaller garbage containers.**
 - **It is proven to work.**
 - **Challenges in the City with a PAYT program**

- **Currently we just bought all residents a large garbage cart so smaller carts for program would need to be bought by City or passed to residents.**
 - **Need to design and implement a tracking and payment system**
 - **PAYT and compost are good programs to implement at the same time so there are more places to divert waste from garbage cart.**
 - **Yard Waste**
 - **Currently yard waste is supposed to be collected separately. It increases our diversion rate and costs City less to ship to mainland. We have been accepting as garbage when bagged in plastic.**
 - **Stop accepting in plastic bags or missed in garbage carts starting October 1, 2018.**
 - **Lower rate for yard waste at Transfer Station. Rate is lower to haul that garbage so rate should be lower at Transfer Station.**
- **Commercial**
 - **7 Days a week recycling collection**
 - **Started Saturday collection April 2017. Starting Sunday collection July 2018.**
 - **Mandate mandatory commercial recycling**
 - **C&D recycling required**
 - **Require a certain percentage of C&D waste be recycled in new ordinance**
 - **More outreach to Recycle Right with contractor**
 - **Improving website for commercial recycling**
 - **Start collecting yard waste separately for businesses**
 - **Look at a lower rate for garbage to charge for yard waste collection**
 - **Lower tip fee for yard waste at Transfer Station. We already pay less to haul it so we should pass the savings to the customers.**
 - **Ban single use plastics**
 - **Write and enforce a single use plastics ban/ordinance**
 - **Reduce glass and find a local reuse**
 - **Work to find a reuse. Start by having a workshop with all players (City, County, Commercial Businesses, local road and concrete businesses, FDOT, FDEP, waste contractors).**
 - **Make a plan for collecting glass separately at a lower cost than garbage.**
 - **Come up with options for reuse... for example**
 - **FDEP already has a mixture for roads and sidewalks that they suggest using. Change City ordinance to require that amount of recycled glass is roads and sidewalks.**

- **Work with a local nonprofit to make and sell mulch from the recycled glass.**
 - **Pass ordinance requiring ordering products in a tiered system. For example: if available in a metal container or carton order first. If not, what is the next package option. Paper, glass, plastic.**
 - **Add compost collection**
 - **Have requested pricing from Waste Management. It will be about \$8 for collection and more than \$64 per ton to haul. These numbers were estimate from WM not official. We will also pursue numbers from them and other collectors.**
- **Recycling Collection**
 - Quantify numbers for residential and commercial garbage and recycling.
 - **Require separate collection or weighing containers.**
- **Street Recycling**
 - More street cans spaced
 - **125 new cans on order. 75 recycle, 50 garbage**
 - Always place garbage and recycle cans in pairs
 - Add signage to side of can.
 - **Design in works**
 - Manage street vendors
 - **No single use plastic straws, no plastic cutlery, no plastic bags, no polystyrene**
 - **Compostable materials for to go items only**
 - **Categorize street vendors. Food vendors need to show amount of waste and where it goes.**
- **Special Events**
 - Manage materials used at special events
 - **No single use plastic straws, no plastic cutlery, no plastic bags, no polystyrene**
 - **Compostable materials for to go items only**
 - Implement special event application
 - **Citywide updates for safety, transportation and recycling**
 - **No single use plastic straws, no plastic cutlery, no plastic bags, no polystyrene**
 - **Compostable materials for to go items only**
 - **Survey vendors. Require them to complete survey as part of getting deposit back.**

- Timeline
 - 2018
 - **Manage plastic straws, plastic cutlery, plastic bags and polystyrene on City property and leases, City permitted special events, and City permitted vendors. Move forward with ordinance immediately.**
 - Stop accepting yard waste in plastic bags.
 - Implement new special event application.
 - 2019
 - Pending Appeal: *Ban* single use plastic straws, plastic cutlery, plastic bags and polystyrene in the City of Key West
 - Green City Certification (Gold)
 - Green business program
 - Pursue a mixed waste processing facility in City or Monroe County
 - 2020
 - Require commercial C&D waste to be recycled
 - *Enforce* single use plastic straws, plastic cutlery, plastic bags and polystyrene ban
 - Reduce, reuse or eliminate commercial glass
 - 2021
 - Design Pay-As-You-Throw system
 - Implement commercial and residential compost collection as part of PAYT option