

# 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.

The Sustainability Advisory Board for the City of Key Wests recently finalized their priorities for FY 2018, listing reducing the waste stream as their number one priority. Their priorities overlapped many of the recommendations and goals in the Solid Waste Master Plan and are represented with **dark green font**.

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

## 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

### Other Recommendations

- 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

### **Phase goals not met yet**

#### **Phase 1**

- Become Green City Certified

#### **Phase 2**

- **Organic collection residential and commercial**
- **Pay-As-You-Throw Incentive Program**
- **Toolkit for Commercial (partial)**
- **Incentive Program for the Green Business Program**

#### **Phase 3**

- Mixed waste processing
- Enforcement for residential mandatory recycling
- **Mandates and enforcement for commercial mandatory recycling**

## **Goals and Suggested Steps & Dates to Reach Goals for Solid Waste Master Plan**

### **Residential**

- Have contractor leave tags for contaminated recycling and yard waste containers.
  - **Design is being completed now and contractor has agreed to start using per Solid Waste Contract.**
- Employees and volunteer groups to survey routes and contamination levels
  - **Use staff and volunteers. Reach out to current volunteers, City Ambassadors and other civic groups to volunteer.**
  - **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. Leave notes. Talk to residents.**
- More door to door outreach
  - **When conducting surveys talk to residents, hand deliver recycling information. Will start hand delivery in January.**
- More Recycle Right Outreach
  - **Have started a Marketing campaign for radio, TV and newspaper**
  - **Updating websites**
- **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 other collectors.**

## Commercial

- **7 Days a week recycling collection**
  - **Started Saturday collection April 2017. Starting Sunday collection July 2018.**
- C&D recycling required
  - **Require a certain percentage of C&D waste be recycled**
- **More outreach to Recycle Right with contractor**
  - **Improving website for commercial recycling**
- Contractor start tagging and leaving emails for contamination
  - **Contractor will start leaving tags and contacting business when recycling is contaminated**
- **Ban single use plastics**
  - **Write and enforce a single use plastics ban/ordinance**
- **Reduce or eliminate glass or find a glass reuse**
  - **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.**
  - **Work with Toppino's to find a reuse.**
  - **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.**
- **Set up a toolbox for commercial customers setting up recycling program**
  - **Update website for commercial recycling**
- **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.**

## Special Events

- Manage materials used at special events
  - **No single use plastics**
  - **No polystyrene**
- Complete special event application
  - **Revamped last year**
  - **Fees added**
  - **Requirements for no single use plastics**
  - **Survey vendors. Require them to complete survey as part of getting deposit back.**

## Street Recycling

- Order more street cans
  - **125 new cans on order. 75 recycle, 50 garbage**
- Always place garbage and recycle cans in pairs
- Keep fresh paint, stencils and signs on street cans on a constant rotation
  - **Can be done in place.**
- Work to ensure better cleaning of cans
  - **Tops of cans need to be cleaned daily and repainted and stenciled as needed**
- Start using bags for garbage cans
  - **Beginning in October 2018**
- Add signage to side of can.
  - **Design in works**
- Manage street vendors
  - **No single use plastics**
  - **No polystyrene**
  - **Coconut vendors paper straws if any**
  - **Categorize street vendors. Food vendors need to show amount of waste and where it goes.**
  - **Currently 2 problems. Coconuts and food vendor waste, we are spending money on providing disposal of those materials.**