

IOWA STATE UNIVERSITY

Facilities Planning and Management

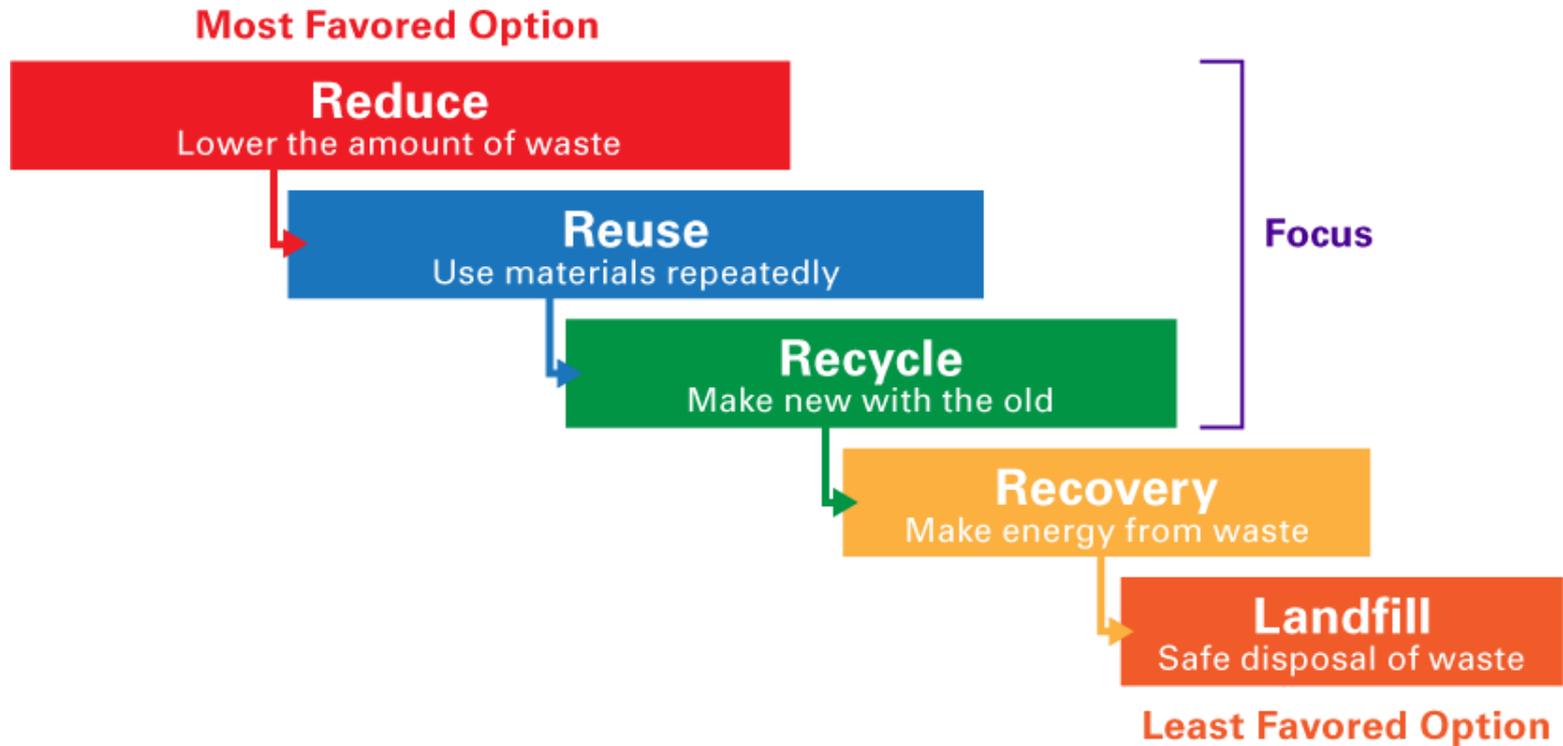
Let's Talk Recycling

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Recycling and Special Events Coordinator



ISU Waste Management Approach



Recycling Review and Updates on Recycling Procedures in Campus Buildings

- Iowa State operates **single stream recycling** program- all recyclables goes into one bin)
- Single Stream Recycling pick-up (blue bins)- **Tuesdays**
- Large quantities/heavy textbooks **should not** be *placed in* blue bins. Rather, box them and submit an online pick-up request form under single stream recycling
- Cardboard recycling pick-up- **Mon, Wed, Fri** (varies across campus buildings)
- Generators of cardboard in buildings are solely responsible for placing them in green dumpsters at the loading dock
- Laboratory glass recycling pick-up occurs every **Wednesday**
- Email recycling@iastate.edu for appliances that need to be recycled for pickup by Campus Services.

Internal Data Tracking System

ISU Facilities Planning and Management
Recycling Bin Count

When you bring recycling bins to the building dock for pickup, use this form to report how many bins and how full they are.

Building
Gerdin Business Building

Bins
4

Bin 1
Full

Bin 2
Full

Bin 3
Full

Bin 4
Full

[Enter report](#)

ISU Facilities Planning and Management
Recycling Bin Count Administration

Bin Count Reports

[View by building](#)

[View by week](#)

Internal Data Tracking System - Continued

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 Recycling Bin Count Administration

You are logged in as Ayo Oluwalana [Log Out](#)

Building Report Details

Building: VET MED -- Week of 7/14/2019

Report by Mikki Cornelius-Chase on 7/15/2019

Bin 1: 75% full
 Bin 2: 75% full
 Bin 3: 50% full

[Delete report](#)

Report by Tammy Bailey on 7/16/2019

Bin 1: 100% full
 Bin 2: 100% full
 Bin 3: 100% full

[Delete report](#)

Report by Kaylea Robinson on 7/16/2019

Bin 1: 100% full

[Delete report](#)

Report by James Pepper on 7/16/2019

Bin 1: 100% full

ISU Facilities Planning and Management
 Recycling Bin Count Administration

Week of

Building	Pounds	
Carver Hall	70	Details
Coover Hall	70	Details
Curtiss Hall	105	Details
Durham Center	140	Details
Environmental Health and Safety Services Building	35	Details
Enrollment Services Center	70	Details
General Services Building	210	Details
Gerdin Business Building	280	Details
Heady Hall	140	Details
Hixson-Lied Student Success Center	122	Details
Lagomarcino Hall	105	Details
LeBaron Hall	105	Details
Parks Library	210	Details
Lloyd Veterinary Medical Center	210	Details
Marston Hall	140	Details
Molecular Biology Building	70	Details
Office and Laboratory Building	140	Details

Zero Waste Focus for Campus Buildings

- Zero waste is still the GOAL
- 85% diversion from landfill by 2025

Waste Minimization and Diversion (Sustainability Plan)

- **Strategy: Reduce waste generated by 10% based on FY12 baseline (begin FY20 and complete FY 23)**
 - ✓ Identify opportunities for improvement within current campus policies and processes for reducing waste generation
 - ✓ Establish agreements with vendors to reduce/return packaging material including pallets
 - ✓ Develop education and awareness programs to promote waste reduction, with focus on seeking academic collaboration opportunities through curriculum and service learning.
- **Strategy: Achieve 85% waste diversion**
 - ✓ Identify opportunities for improvement within current campus policies and processes through a comprehensive waste audit characterization study, building occupant surveys, reusable food packaging options, and additional reuse/diversion opportunities for items not able to be diverted through ISU Surplus.

Waste Minimization and Diversion (Sustainability Plan) - Continued

- ✓ Implement pilot programs in key buildings to determine waste diversion baselines and potential - including pre- and post-surveys.
- ✓ Reduce plastic food packaging
 - ✓ Convert 75% of current plastic packaging to compostable packaging.
 - ✓ Replace dispensed carbonated beverage cups and lids with compostable packaging options.
- ✓ Increasing composting options for students faculty, and staff.
- ✓ Develop education and awareness programs to promote waste diversion with focus on seeking academic collaboration opportunities through curriculum and service learning.

What is Zero Waste?

- A lifestyle, philosophy, movement and solution.
- Reduce consumption, minimizes waste, maximizes recycling i.e. products reused, repaired or recycled back into nature.
- Aims to eliminate rather than manage waste.
- Departure from the norms (cultural/behavioral change)

Why Pursue Zero Waste at Iowa State?

- Potential model for the development of Iowa State students, faculty & staff toward being responsible consumers (individual benefits)
- Economic Benefits (save operational costs)
- Great and effective avenue to actively engage the entire campus community towards a robust participation in recycling
- Enhances recycling/sustainability education

So... How?

- A **system thinking approach** is key to achieving robust participation in recycling through zero waste.

“willingness to see a situation more fully, to recognize that we are interrelated, to acknowledge that there are often multiple interventions to a problem, and to champion interventions that may not be popular” - The Systems Orientation: From Curiosity to Courage

Partnership/Collaboration

- Partnership among key campus stakeholders is crucial to success.



FP&M OFFICE SPACE PILOT STUDY

Office Space Recycling Pilot Study (FP&M Case Study)

Duration of Study: Oct-Dec '18

Three phases:

- ***Pre-removal Operations***
 - ✓ *pre-study waste audit of all floors in FP&M*
 - ✓ *pre-removal questionnaire survey*
- ***Removal Operations***
 - ✓ *Removal of desk-size trash bins leaving only desk-side recycling bins.*
 - ✓ *Placement of centralized trash bins depending on work areas.*
 - ✓ *Distribution and placement of newly designed recycling/landfill/zero-waste rethink signage posters on centralized recycling/trash bins on all floors.*

Pilot Study - Continued

- ***Post-removal Operations***

- ✓ Post-removal questionnaire survey to get feedback from staff.
- ✓ Post-study waste audits to evaluate the effectiveness of the operations.
- ✓ Implementing feedback

- **Study Results**

- ✓ ***150 staff*** took part in both pre & post study surveys.
- ✓ ***Only 53 staff participated*** and gave up their trash bins completely after the study
- ✓ ***Pre-study waste audit*** showed ***55% of recyclables*** found in trash bins
- ✓ showed only ***23% of recyclables*** found in trash bins after the study (post-study waste audit)

Pilot Study - Continued

Duration of Study: July 2019

Two phases:

- **Implementation Timeline**

- ✓ *Waste audits/emptying of desk-side recycling bins in pilot areas*
- ✓ *Waste audits of trash removed from desks before the commencement of pilot study*
- ✓ *Emptying desk-side recycling bins in pilot areas*

- **Post-Study Operations**

- ✓ *Survey to get feedback on the impact of the study*
- ✓ *Waste audits to evaluate the effectiveness of the operations*
- ✓ *Share waste audit results and photos with staff*
- ✓ *Feedback and open forum for staff discussions*

Recycling Poster



RETHINK

It's time to rethink what you recycle

With **single stream recycling**, you can place most items for recycling into one bin. Other items go into trash cans which are now centrally located in lounge areas throughout Facilities Planning and Management.

GOAL ZERO WASTE

Do your part, **think green** and know what goes in the **blue bin**.

Small Changes|Big Impact

Pause and ask yourself 'Can I recycle this?'

This small change can dramatically reduce the amount of trash you throw away.

RECYCLING

Recycling Bin Signage

SINGLE STREAM RECYCLING

IOWA STATE UNIVERSITY
Facilities Planning and Management.



- Paper**
- Newspapers**
- Magazines**
- Paperboard**
- Paper Bags**



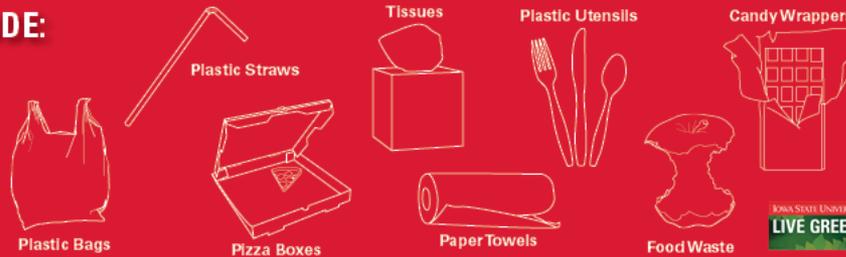
- Glass Bottles***
- Milk Cartons***
- Plastics #1-7***
- Aluminum***
- Tin/Steel Cans***

Cardboard recycled separately

**Rinse containers before recycling*

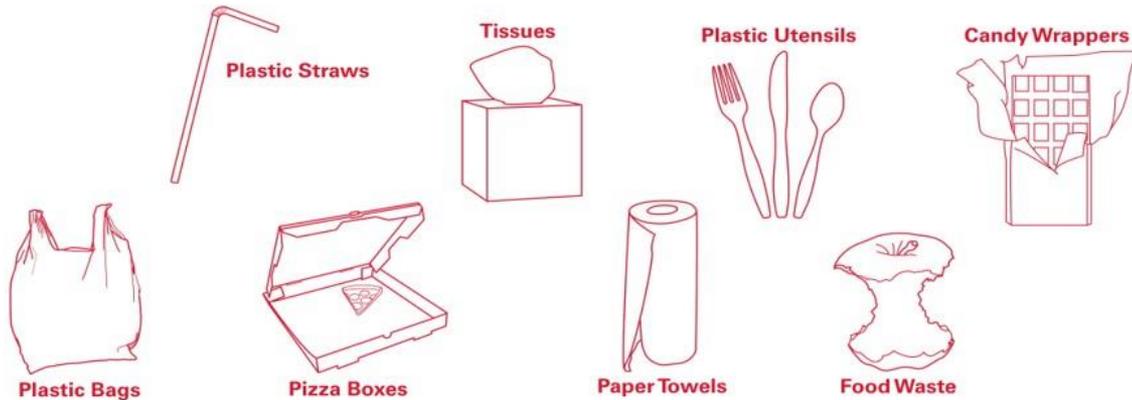
DO NOT INCLUDE:

- TISSUES
- LIQUIDS
- STYROFOAM
- FOOD WASTE
- PIZZA BOXES
- PLASTIC STRAWS
- PLASTIC UTENSILS
- CANDY WRAPPERS
- PLASTIC BAGS/WRAP



Refuse Signage

LANDFILL & AMES RESOURCE RECOVERY CENTER



Plastic Bags/Wrap
Plastic Straws
Pizza Boxes

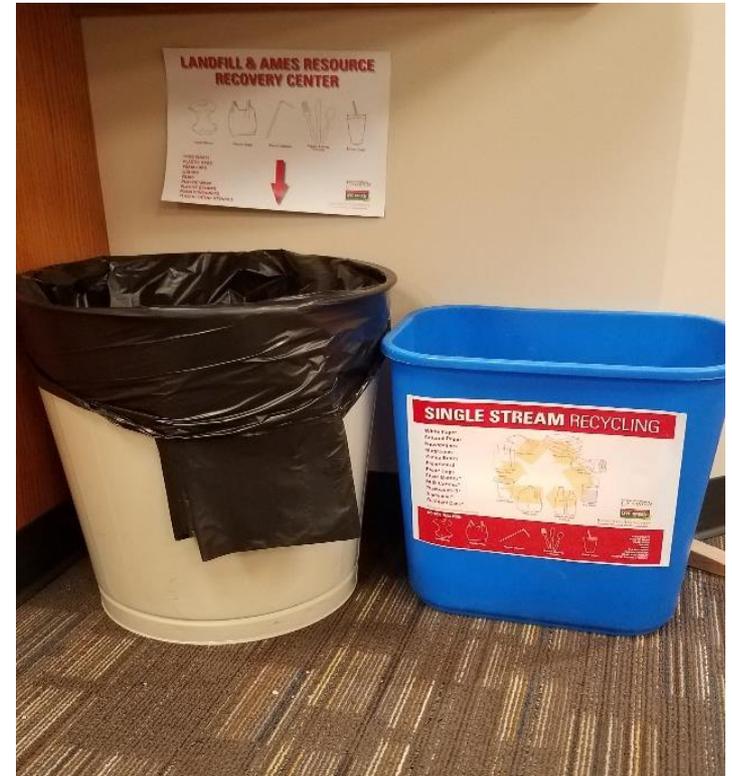
Tissues
Styrofoam
Liquids

Plastic Utensils
Food Waste
Candy Wrappers

Office Space Waste Audit



Office Space Bin Set Up



New Building Recycling Focus/ Support Needed

- Each campus building identifies and assigns a recycling coordinator for the building as well as floor recycling champions.
- Communication!!

Building Recycling Coordinator

- Serves as contact person between occupants and the University recycling coordinator.
- Help identify recycling champions and identifying their roles on each building floors.
- Promote, educate, relay recycling messages to all occupants.
- Determine appropriate locations for recycling bins.
- Ensure signage are up and adequate through the building.
- Explain recycling & waste management processes to new building occupants in terms of expectations of emptying their own recycling bins.
- Contact FP&M's recycling coordinator with any recycling questions.

Role of FP&M's Recycling Coordinator

- Convenes frequent meetings among building recycling coordinators, building champions to discuss recycling challenges and proffer solutions
- Identify and evaluate recycle locations and communicate such as map for easy access through the recycling website

Thank You!

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Questions

