

IOWA STATE UNIVERSITY

Facilities Planning and Management
(FP&M) Dept.



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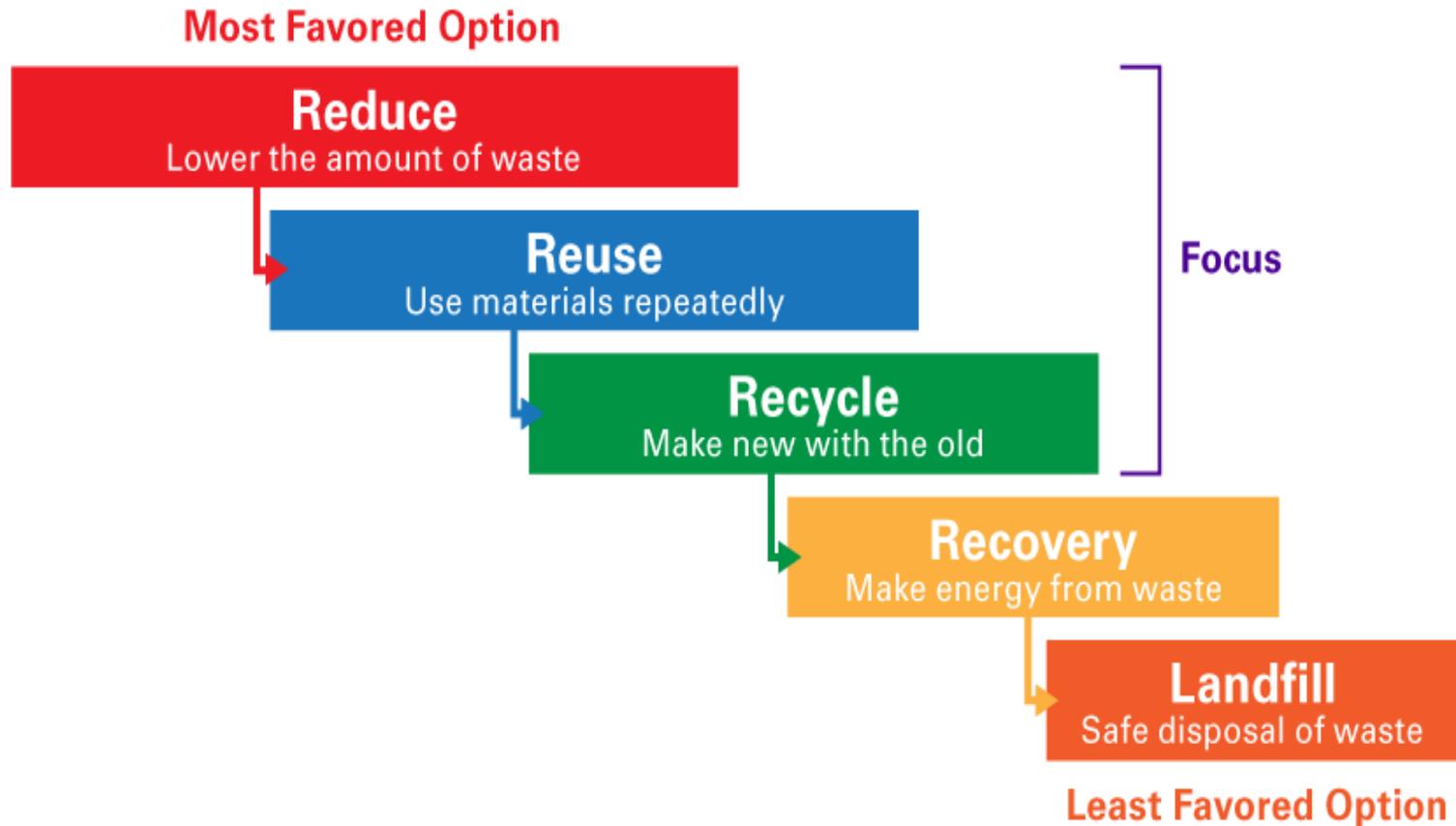
February 25, 2019

Talking Points.....

- Zero Waste Focus for Campus Buildings
- Recycling Review and Updates on Recycling Procedures in Campus Buildings
- Explore New Recycling Website on Available Services
- FP&M Office Space Pilot Study
- New Building Recycling Focus/Support Needed
- Discussion on any Recycling Needs/Challenges in Buildings

“We are building waste managers-
we are all in it together”

Summer 2018 Recap.....



Zero Waste Focus for Campus Buildings

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 ISU?

Potential model for ISU and the development of its students, faculty & staff toward being responsible consumers- individual benefits

Great and effective avenue to actively engage the entire campus community towards a robust participation in recycling

Economic Benefits
(save operational cost)

Enhances recycling/
sustainability education

So... How?

- **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 succeed.

The Process.....

- Conduct a comprehensive campus building waste audit.
- Evaluate current recycling systems, recycling contracts and recycling infrastructure for possible expansion.
- Set up a building based zero waste initiative team (comprising key stakeholders-faculty, staff and students).
- Develop a waste reduction/diversion plan: university-wide zero waste policy, set diversion rate, marketing/communication strategies etc.

The Process.....contd.

- Set goals for implementation
 - ✓ **85%** diversion rate by 2025 (yet to be determined)
 - ✓ engagement/partnership goals (engage 80%-90% of the campus community- faculty, staff, students, visitors on zero waste initiatives).
 - ✓ communication goals- develop communication plans and educational materials to support efforts.
 - ✓ funding goals- grants etc.

Implementation Timeline

Phase One (Year 1-2)

- Immediate focus is on indoor (building) recycling to increase recycling presence (reduce trash bins and increase recycling bins in common spaces/classrooms, clear signage, consistent bin design across campus etc.
- conduct pilot studies of these operations in 3-4 high traffic buildings to determine its effectiveness before campus-wide implementation.

Phase Two (Year 3+)

- focus on **outdoor recycling**- increase belly bin recycling bins.
- encourage more office space recycling by removing desk-side trash bins.
- develop a campus- wide waste diversion policy plan approved by University Management (institutionalizing zero waste at ISU).

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.

New Recycling Website on Available Services

<https://www.fpm.iastate.edu/recycling/>

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.*

- ***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)

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

SINGLE STREAM RECYCLING

Paper
Newspapers
Magazines
Paperboard
Paper Bags



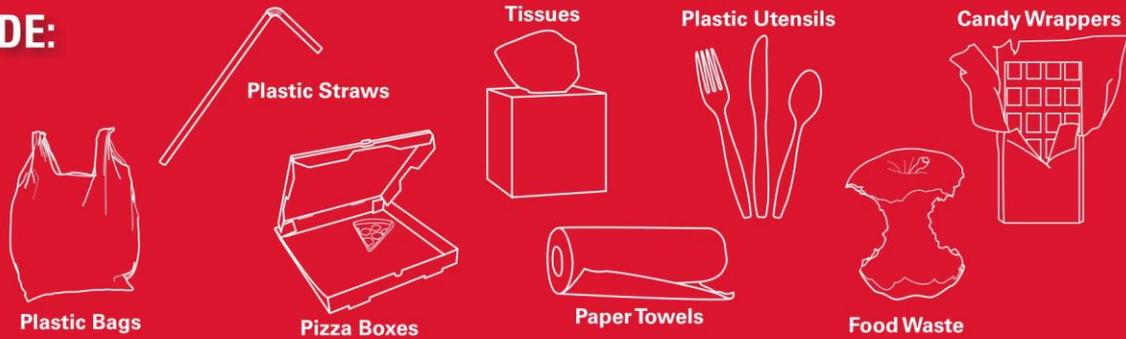
Glass Bottles*
Milk Cartons*
Plastics #1-7*
Aluminum*
Tin/Steel Cans*

Cardboard recycled separately

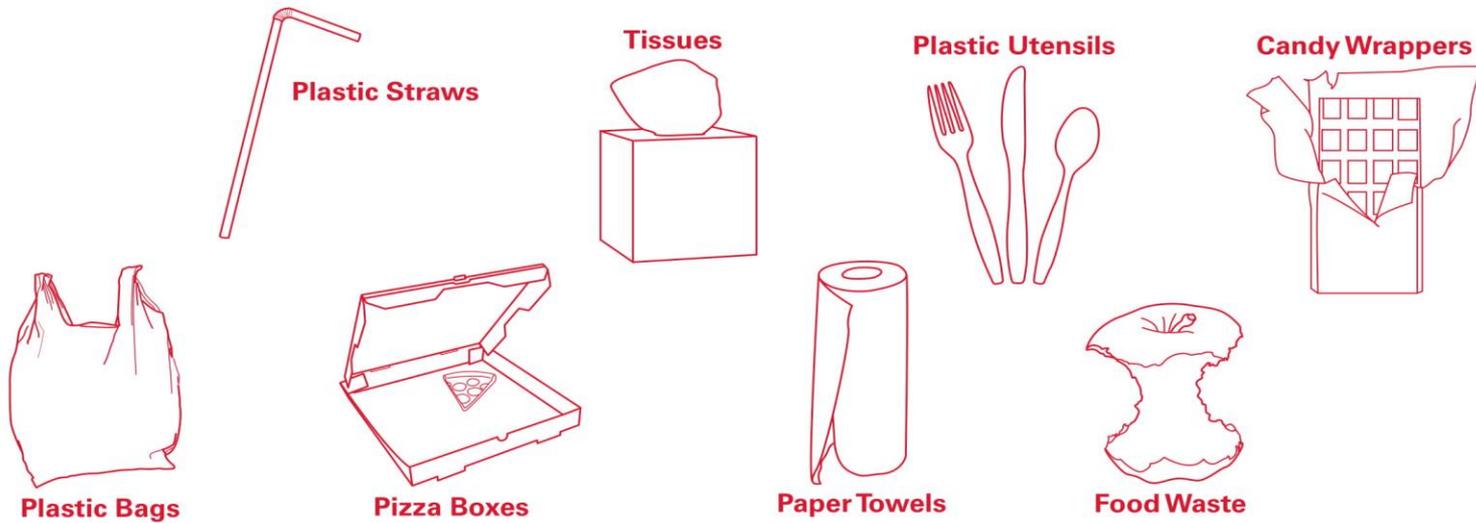
**Rinse containers before recycling*

DO NOT INCLUDE:

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



LANDFILL & AMES RESOURCE RECOVERY CENTER



**Plastic Bags/Wrap
Plastic Straws
Pizza Boxes**

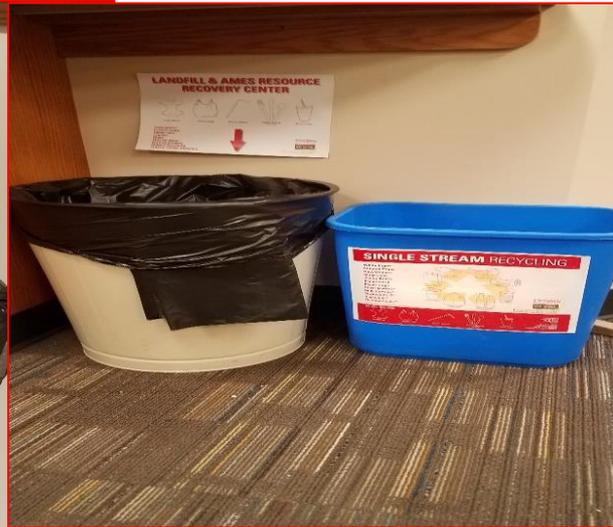
**Tissues
Styrofoam
Liquids**

**Plastic Utensils
Food Waste
Candy Wrappers**

Office Space Waste Audit Pictures



Some office space bin set-up/signages pictures



New Building Recycling Focus/Support Needed

Each campus building identifies and assign a recycling coordinator for the building as well as floor recycling champions

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 the University's recycling coordinator on any recycling questions.

Floor recycling champions complements building recycling coordinator's efforts

Floor recycling champions:

- Assist with recycling operations, reminders, watch containers and constant communication with building's recycling coordinator;
- Watching for contamination (non-recyclables) in your bins on each floor;
- Notify the building recycling coordinator when the 55 gal big blue bins are full and not emptied as scheduled or there are accumulation of cardboard;
- Coordinate with building custodians to ensure recycle containers are available, in their correct locations, and emptied on schedule;
- Communicate signage concerns, missing signage, damaged signage, damaged bins etc. ;
- Contact your building recycling coordinator for any recycling questions or issues.

Role of University'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 for listening

Discussion on any Recycling Needs/Challenges in Buildings

Questions???

