



# University Waste Reduction & Recycling

Sustainability Manager  
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# Executive Order 22

- **Leading By Example: Directing State Agencies to Adopt a Sustainability and Decarbonization Program**
  - Consolidated previous sustainability EOs
  - Establish GreenNY council
  - 75% reduction in waste
  - Updated Reporting



# Executive Order 22

- The waste diversion plan shall incorporate at least the following elements:
  - a schedule for conducting routine waste audits of facilities and how the findings from the waste audit will be utilized in advancing waste reduction
  - a plan for diverting organic waste from landfill to meet the diversion goals
  - identifying all instances where single-use plastics are used and creating a plan to eliminate their use in all circumstances where doing so will not endanger employee or public health and safety
  - consideration of whether the affected entity should, by 2025, transition to dual-stream recycling that source separates recyclable items into subcategories of mixed paper and commingled containers (plastic, glass, and metal), at all facilities where it is practicable and where dual-stream material recovery facilities are available, cost-effective and efficient.



# STARS AASHE

- The Sustainable Tracking, Assessment & Rating system a program of The Association for the Advancement of Sustainability in Higher Education
- A transparent, self-reporting framework for colleges and universities to measure their sustainability performance.
- Top performer
  - Research
  - Water Management
  - UP 11.21 rank points since 2018
  - ~18% increase





# Facilities Management

- **Recycling and Resource Management**
- **Waste Reduction Services on Campus:**
  - **Recycling**
  - **Composting**
  - **Waste Management**



# Recycling and Resource Management

- **Collection and Removal**
  - Recyclables
  - Compost
  - Universal Waste
  - Confidential Documents
  - Waste Contract
- **Office main support**
  - Student Assistants

# **B** Recycling and Resource Management

- Vehicle
  - 2 8yd Diamondback compactors with F550 Cab
  - 1 12yd Viper compactor with Ford cab with cable winch
  - 17' Classicube box truck with Chevrolet cab express 3500



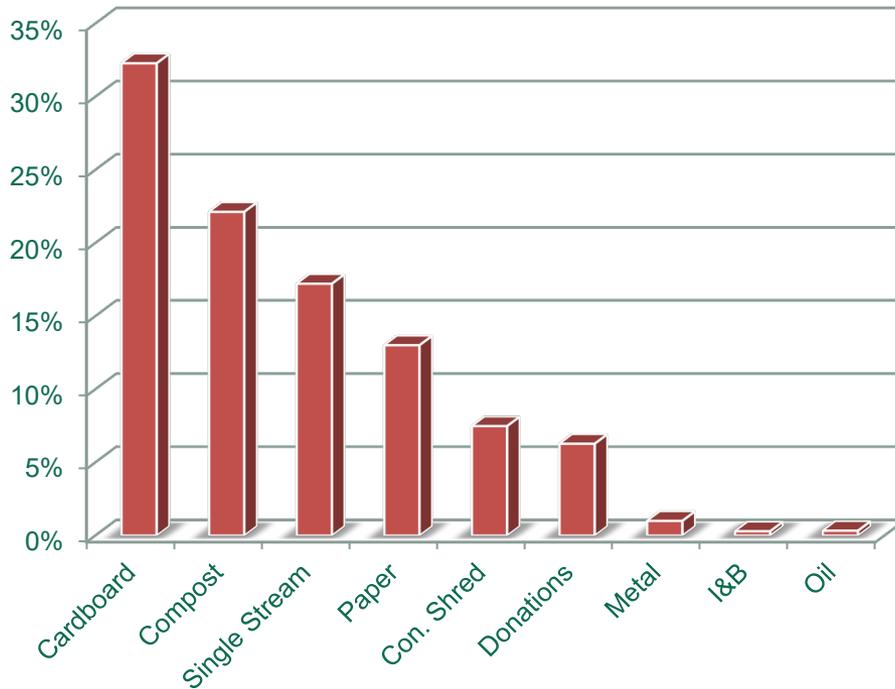
# **B** Waste Reduction Services

- **Campus Recycling includes:**
  - Cardboard
  - Mixed (glass, metal, plastic)
  - Paper (Confidential, non- confidential)
  - Ink/Toner
  - Batteries
  - Scrap Metal
  - Pallets
  - CFL Bulbs
  - Electronics
  - Paint (new pilot program)

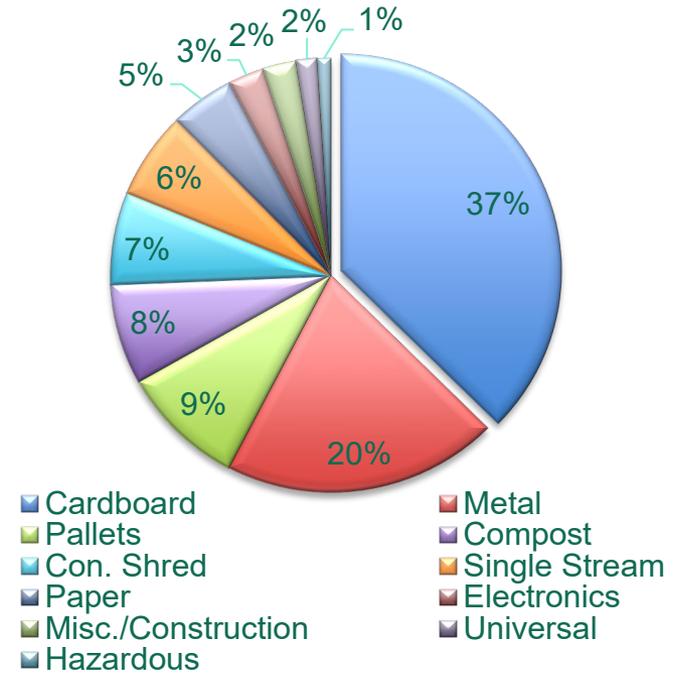


# Waste Reduction Services- Breakdown

## Recycling Breakdown 2010-11



## Recycling Percentage Breakdown 2022-23



# **B** Waste Reduction Services- Compost

- **Contamination Reduction**
  - Only food scraps (pre/post consumer) allowed into compost barrels
  - Encourage reusable tableware
  - Change dining hall disposable tableware to compostable
    - Contract Negotiation
- **6 NYCRR Part 350 Food Donation and Food Scraps Recycling**
  - Donation
  - Recycling

# **B** Waste Reduction Services- Universal Waste

- **Material**
  - CFL Bulbs
  - Batteries
  - Toner
  - Waste Oil
- **Environmental Justice**
  - Certification (R2/RIOS, NAID, ISO 9001)
    - Electronics recycling
    - Recycling Industry Operating Standard
    - Quality Management Solution

# **B** Methods of Waste Reduction

- Perform audit
- Identify contamination
- Update signage
- Update containers
- Repeat



# Methods of Waste Reduction

## Mixed Run Checklist

Name:	Date:	Weight:
<b>State Buildings:</b>	<b>Number of Bins: M   P</b>	<b>Dorm Buildings:</b>
Academic B		Dickinson
Campus heating Plant		Rafuse
Central Receiving		Digman
Clearview Hall		Champlain
Commissary		Whitney
Couper Administration		Johnson
Downtown Center (DTC)		<b>Newing</b>
East Campus Housing Trailer		Bingham
East Gym		Deleware
Engineering Building		Endicott
Events Center		Broome
Fine Arts		<b>C.I.W.</b>
Health Services		Seneca
Institute for Child Development		Onieda
ITC		Onondaga
Lecture Hall		Cayuga
Library		Mohawk
Lot M Construction Trailer		<b>Hinman</b>
McGwire Building		Cleveland
Physical facilities		Hughes
Pre-School		Lehman
O'Conner(State)		Roosevelt
Rockefeller Center Back Dock		Smith
Rockefeller Center Front Dock		<b>Mountainview</b>
Science I		Marcy
Science II		Windham
Science III		Cascade
Science IV		Hunter
Science V		<b>Susquehanna</b>
Union Bookstore Dock (DH)		Brandywine
Union Catering Dock (DH)		Brandwine/Choconut
West Gym		Choconut
<b>Dining Halls (DH):</b>	<b>Number of Bins:</b>	Glenwood
C.I.W.		Naticoke
Collegiate Center		<b>Hillside</b>
Appalacian		Hillside Commons
Hinman		Nyack/Minnewaska

**Contaminants:**  
C- Cardboard S- Styrofoam

**Notes:**

# **B** Methods of Waste Reduction

- **Campus Inventory Check**
- **Residential**
  - Dorm damage
  - Walk through
- **State**
  - Interns
  - Walk through



# Sustainability Events

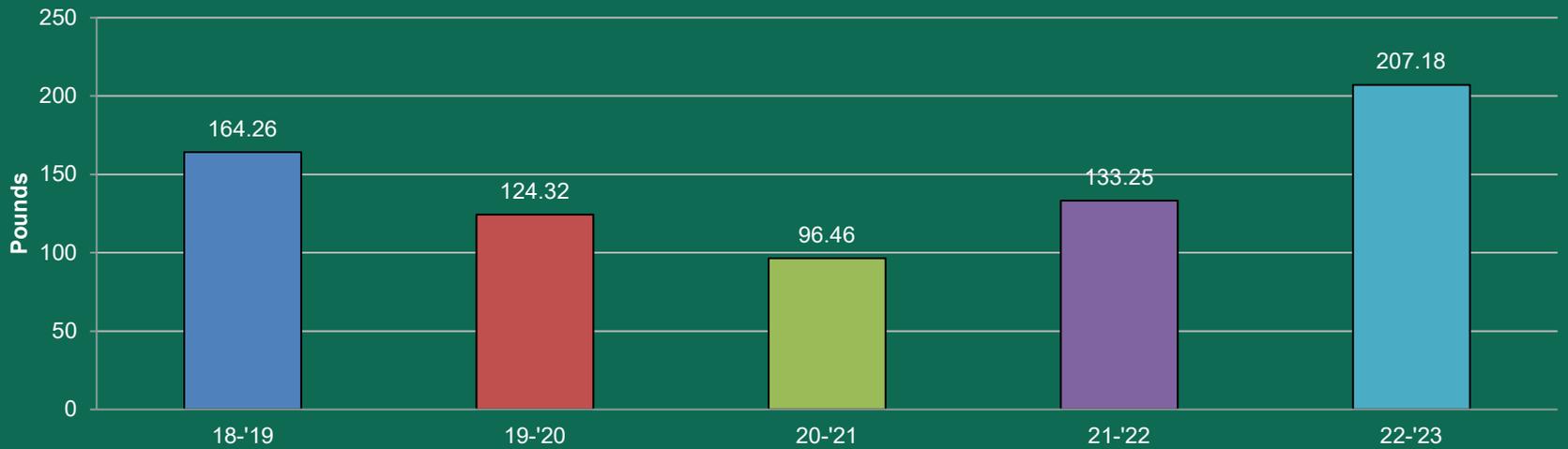
- **Campus Sustainability Month**
- **Binghamton 2 Degrees Monthly Sessions**
- **America Recycles Day**
- **Race to Zero Waste**
- **Earth Month**
- **Earth Day Festival**
- **Sustainability Scavenger Hunt**
- **Campus Move-Out/Binghamton Move-Out Project**



## Annual Diversion Per Capita



## Annual Refuse Per Capita





# Office of Sustainability

- <https://www.binghamton.edu/sustainability/>

