



UNIVERSITY OF  
ALBERTA

## Organics Diversion On the Road to Zero Waste

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### Sustainability Plan

#### Waste Diversion Goal:

- Expand waste reduction initiatives across all campuses and increase the amount of waste diverted from the University of Alberta's North Campus to **50% by 2015**

**ENvision**  
INTELLIGENT ENERGY REDUCTION

- Focus on renewable and alternative energy (e.g. waste to energy)



### SUSTAINABILITY PLAN 2012-2016

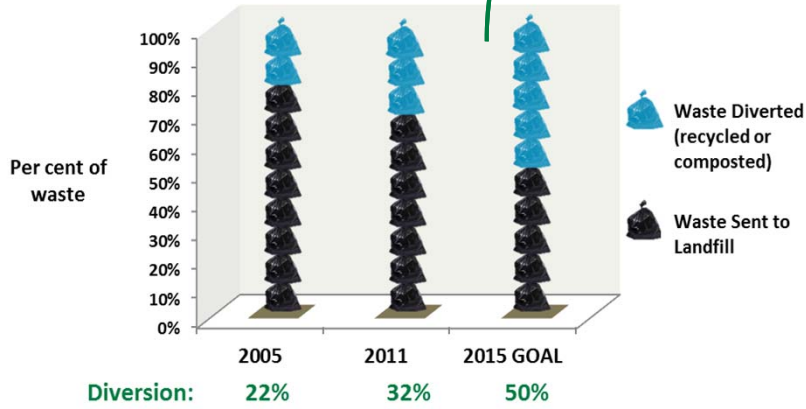
*"Sustainability is the process of living within the limits of available physical, natural and social resources in ways that allow the living systems in which humans are embedded to thrive in perpetuity."*

—Academic Advisory Committee Working Definition, Office of Sustainability, 2010

JANUARY 30, 2012

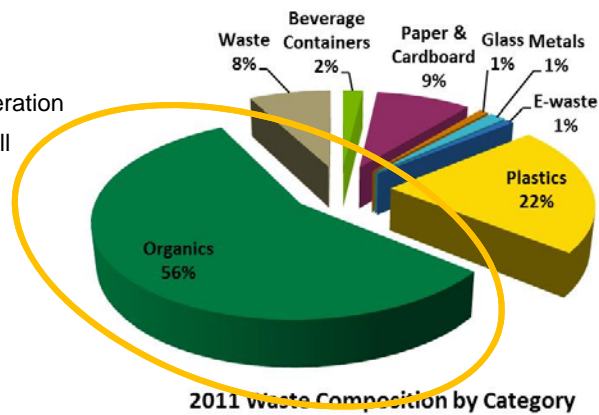
## Progress Towards Our Goal

2013 Rate: ~42%



## 2011 General Audit

- Highlights:**
  - ↑ 10% diversion rate
  - ↓ 9% total waste generation
  - ↓ 21% waste-to-landfill
- Approx. 60% organics**



2011 Waste Composition by Category

## Maximizing the Resource

- Waste as valuable resource
- Focus on renewable energy
- Anaerobic digestion technology
  - Biogas
  - CHP (electricity + waste heat)
  - Digestate to compost
  - GHG reduction
- HSADF partnership with CofE
  - 1500 tonnes SSO by 2016
  - Currently collect ~300 tonnes



## Challenges

- Collection, infrastructure, storage
- Resources, costs
- Current contracts
- Contamination
- Education, awareness, and behaviour change



## Next Steps

- Focus on HUB and SUB
- EWMCE & expert team
- Campus wide implementation
- Share knowledge and expertise
- Model of approaches and solutions



## Thank you!

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