Today's Panelists



Mandy Bydalek

Assistant Sustainability Coordinator

Lincoln Public Schools

Nebraska



Olena Olafson

Sustainability Coordinator Calgary Board of Education Alberta



Amanda Mortl Zero Waste Specialist Austin Independent School District Texas









Let's Recycle Better, Together.



Join the Discussion!

From your toolbar:







Sustainability at LPS

Mandy Bydalek Assistant Sustainability Coordinator





Lincoln, Nebraska

42,000+ STUDENTS

8,000+ EMPLOYEES

70 BUILDINGS

7,300,000+

SQUARE FEET OF SPACE



2021 Waste Diversion Efforts

Recycling	Composting	Reuse
Traditional Recycling milk cartons, metal, electronics, pallets, books, cartridges, lights, and batteries	61 LPS buildings have joined the cafeteria composting program	Auction Program, Surplus Disbursement, books , and oil reuse
1,669,931 lbs.	1,200,915 lbs.	17,200 lbs.

52% district diversion rate







392 tons

133 tons

2,421 tons

concrete

14 tons

62 tons drywall

41 tons

single stream

PVC

wood

metal



Cafeteria Waste

- Share table
- Empty Liquids
- Carton Recycling
- Bottles & Cans Recycling
- Landfill
- Compost







Classroom Waste

- Container resets
 - Right-sizing bins
 - Standard location and labels
- Whole School Composting











Completely empty ALL cartons before recycling



COMPOST

ALL Food Scraps

Paper Products

Compostable Dishes





School Engagement

- Green Schools Recognition Program
 - Sustainability Champions
- Curriculum
 - Garbology
- Staff meetings









Thank you!

Contact us:

Brittney Albin balbin@lps.org

Mandy Bydalek mbydalek@lps.org

https://home.lps.org/sustainability/



cbe.ab.ca









Webinar: K-12 Recycling and Waste Reduction May 18, 2022

Olena Olafson Sustainability Coordinator Calgary Board of Education

learning as unique as every student





CBE Quick Facts







- The largest public school board in Western Canada
- 125,000+ students
- 14,000 employees
- 250+ schools and administrative sites





CBE Environmental Policies

Operational Expectations 9

9.2 Ensure that facility planning and design decisions appropriately consider environmental impacts, including eco-efficiency and sustainability.

Results 3 Citizenship

Each student will be a responsible citizen:

3.4 Be responsible stewards of the environment by contributing to its quality and sustainability.

Education Plan

Learning Excellence, People Excellence, Collaborative Partnerships, Strategic Resourcing

Sustainability Framework 2030

- support the development of engaged citizens who understand their responsibility in contributing to a socially, environmentally and economically sustainable society,
- be a leader in sustainable practices and behaviours.











Why a Waste Reduction Strategy?





- CBE 2030 target: reduce waste going to landfill by 90 per cent (from 2007-08 levels) with a goal of zero waste by 2050
- Reduce carbon footprint
- Comply with City bylaws







Waste Diversion Guide

for businesses owners, managers and building operators

In Calgary, businesses and organizations contribute roughly one third of waste that goes into the landfill. By reducing and diverting recyclable and compostable materials, we reduce our dependence on landfills, produce new and useful products, and conserve valuable natural resources.

Waste Bylaw 4M2020

The Waste Bylaw requires Calgary Businesses and Organizations to:

- Collect and store recyclables and food and yard waste separate from garbage.
- Ensure adequate containers are available for recyclable and food and yard waste materials. "Adequate containers" means having enough containers, of sufficient capacity, in all locations they are needed.
- Post clear signage that shows what materials are deposited in each bin.
- Ensure recycling and food and yard waste containers are emptied as necessary and that collected materials are taken to recycling or composting facilities.
- Provide information to new and existing tenants, and employees on an annual basis including:
 - » List of accepted materials and the collection locations.
- » How to properly prepare and sort material for diversion.

We'll work with your organization to to help you become bylaw compliant. However, if there is still no compliance, the business owner(s) will be subject to inspection by a Bylaw Enforcement Officer, who may issue a violation ticket or fine.

Six steps to set up a waste diversion program

- 1. Understand your waste needs page 2
- 2. Decide who will provide collection service page 3
- 3. Make sure you accept the right materials page 4-5
- 4. Decide where to store your materials page 6-7
- Inform your employees and tenants about your program – page 7
- 6. Take your waste diversion program one step further page 8

https://www.calgary.ca/business-economy/uep/wrs/commercial-services/commercial-waste-recycling-bylaw.html



How (Strategy Implementation)

- Recycling stations provided to all schools
- School Based Recycling Program Best Practices
- System recycling programs (electronics, books, batteries, metal, fluorescent lights, wood, ink cartridges)













Equipment

Centralized Stations



Washroom Bins





Classrooms, Conference/ Meeting Rooms, Offices



Waste Train





Outdoor Bins







Process: Waste/Recycling/Organics including Paper Towel Removal

Steps

- Empty waste into the **waste bin** of Α. "train" daily.
- Replace black garbage bags weekly. Β.
- Remove and dispose bags of С. recycling/refundables into designated recycling bin of "train" weekly.
- Replace clear bags weekly. D.
- Ε. Remove/Empty organics and paper towel into designated organics bin of "train" daily if required.
- Replace compostable bags weekly. F.













Where are we now?

March 2019

School Waste Report

Your school currently generates: 0.05 cubic yards of waste/student/month.



Waste Management picks up 1 \times 6 cubic yard bins, 1 \times per week from your school at a cost of \$139/month.

Based on your current waste generation, you are below the current CBE average, and will have 75 per cent of your recycling service covered in September 2019.

The waste reduction goal for your school is 0.03 cubic yards/student/month. For more information on how your school can reduce waste, please visit the <u>waste</u> <u>management</u> pages on staff insite.

if you have any questions about your School Waste Report, please contact Deborah Wehnes, Waste and Recycling Coordinator <u>dewahnes@cbe.ab.ca</u> (403)817-6324



- Waste report
- Waste/Recycling/Organics pick up at schools
- Support schools to comply with bylaws
- Educational resources for schools



Next steps: getting to 90%

- Support existing programs
- Service level standardization
- Purchasing practices and policies
- EcoSchools certification











Thank you!

Olena Olafson

Deborah Wehnes

Sustainability Coordinator

otolafson@cbe.ab.ca

Waste & Recycling Coordinator

dewehnes@cbe.ab.ca

learning | as unique | as every student





SCIENCE



Sustainability @ Austin ISD

Amanda Mortl Austin ISD Zero Waste Specialist

sustainability@austinisd.org
austinisd.org/sustainability

Austin ISD District Profile



EST. 1881

Austin ISD is the fifth-largest school district in Texas.



125 SCHOOLS

Austin ISD consists of elementary, middle, high, early college, academy, magnet, alternative and community schools.

74,871 Students



1,569 Administrators & Professional Staff **3,866** Bus Drivers, Custodians, Food Service Staff & Educational Aides

Our Students



Since the 2004 bond, all new schools and major renovations have adhered to green building standards. To date, AISD has over thirty facilities that have achieved an <u>Austin Energy® Green Building</u> rating, a <u>Leadership in Energy and Environmental Design (LEED)</u> rating from the United States Green Building Council, or both.

Ethnicity/ Race Hispanic: 55.0%



Inclusive Populations

Economically Disadvantaged: 51.9% Emergent Bilingual: 28.2% Special Education: 13.4%



AISD Sustainability Plan

Zero Waste & Procurement

- Reduce landfill waste by 90% by 2040 (CoA Zero Waste goal)
- Establish sustainable procurement guidelines
- Implement school-to-school materials exchange & reuse platform





District-wide waste streams:

- Landfill
- Single-stream recycling
- Cafeteria compost

Other recycling:

- Construction waste compliance
- Batteries, e-waste, scrap metal
- Surplus sale

39% volumetric diversion

Food Procurement: Good Food Purchasing

















Austin ISD Bin Specifications

Project Development Manual for Construction:

Section IV Energy & Sustainability

Table of Contents

Section I – Design Standards Section II – AISD Master Guide Specifications Section III – Details Section IV – Energy and Sustainability

Section V – Land Development Standards



Indoor and outdoor bin specifications:





Timeline: Policy & Planning



AISD Zero Waste Resources

Check out AISD's Zero Waste Tool Kit!

View printable posters and setup instructions for your school's Zero Waste Program





Soiled paper and cardboard

AUSTIN Sustainab

Eco-Schools USA

Cartones y papeles sucios









Thank you!

AISD Zero Waste resources:

https://www.austinisd.org/sustainability/waste-procurement

To reach Amanda Mortl Amanda.mortl@gmail.com



Results of Live Poll

How would you rate your recycling/waste reduction program? (check only one)







Panel Discussion



Mandy Bydalek

Assistant Sustainability Coordinator

Lincoln Public Schools

Nebraska



Olena Olafson

Sustainability Coordinator Calgary Board of Education Alberta



Amanda Mortl Zero Waste Specialist Austin Independent School District Texas





Thank You to Our Panelists!

Moderator:

Alec Cooley

Busch Systems

alecc@buschsystems.com

Olena Olafson

Calgary Board of Education

otolafson@cbe.ab.ca

Mandy Bydalek Lincoln Public Schools mbydalek@lps.org

Amanda Mortl

Austin Independent School District amanda.mortlwalker@austinisd.org





Online Resources

Program Resources

- Presentation slides & recording
- Links to speaker resources
- Aug. 2021 Webinar presentations: -Simcoe CO. Dist. Schools, ON -Montgomery CO. Public Schools, MD -Salinas Valley Recycles, CA

Advancing Recycling Blog Series

Recent posts:

- Ideas for K-12 Education
- Using Words v. Images on Signage

Visit: buschsystems.com/blog





Need Credit for CEU's?

Email Marissa Caldwell to request a Certificate of Attendance

marissac@buschsystems.com



Let's Recycle Better, Together.



Stay Tuned for Product Demonstration



Let's Recycle Better, Together.



























