

ENVIRONMENTAL STEWARDSHIP ADVISORY COMMITTEE

NOVEMBER 29, 2017

AISD SUSTAINABILITY UPDATES

DARIEN CLARY

AISD SUSTAINABILITY MANAGER



GREEN BUILDING

AISD Performing Arts Center Green Building Celebration

10–11:30 a.m. | Oct. 12
PAC Lobby, 1500 Barbara Jordan Blvd.



You are cordially invited to join Austin ISD as we celebrate the Performing Arts Center LEED Gold rating from the U.S. Green Building Council and 5-Star rating from Austin Energy Green Building.

The event will include a tour and light refreshments.

10 a.m. Refreshments and performance by McCallum High School Jazz Band

10:30 a.m. Ceremony

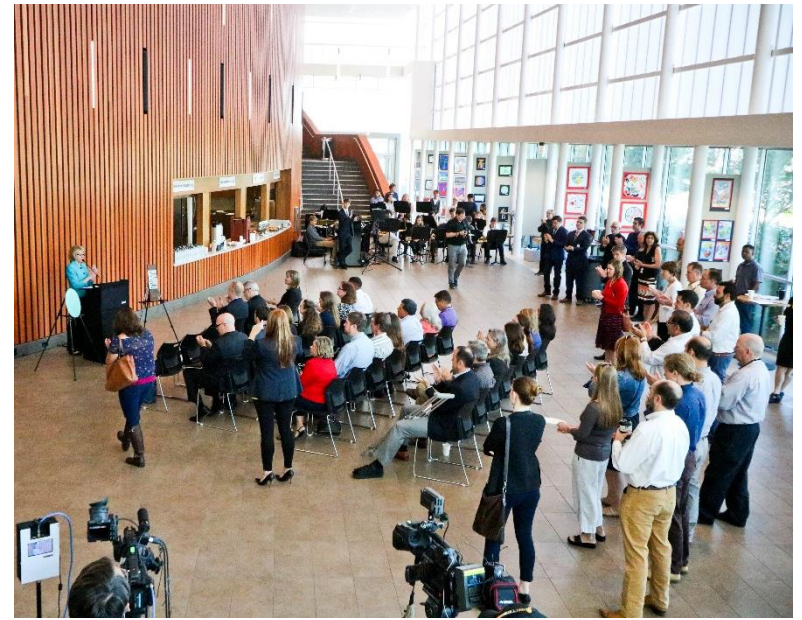
11 a.m. Green Building tour

**Click here to RSVP, or
contact Darien Clary at
512-414-3042.**





Photo: Elena Reid, Studio D Consulting



ESAC Members!

Photo: Elena Reid, Studio D Consulting

McCallum Jazz Band!



AISD Food Services!



Featuring AISD Student Artwork!



“This commitment will continue to be part of our AISD Future. Moving forward, AISD’s Facilities Master Plan and Educational Specifications will continue to integrate sustainable designs to ensure the district’s facilities not only conserve resources through a reduced reliance on water, electrical, and gas utilities, but also enhance educational outcomes.”

- Trustee Amber Elenz

Board Recognition of
AISD Construction
Management & Facilities
for Green Building
Initiatives

10/23/2017



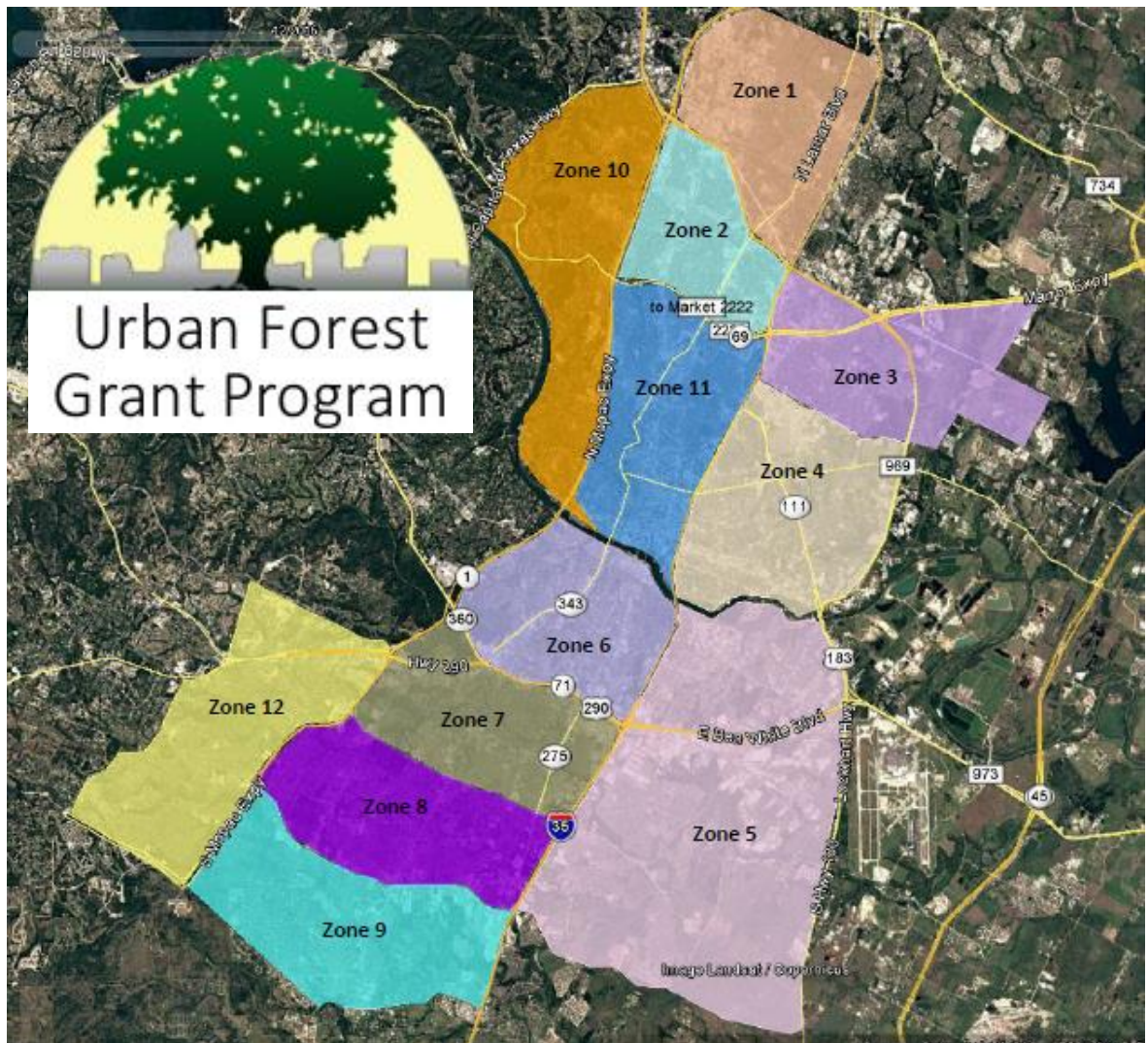


AISD URBAN FOREST

Tree Inventory (through June 2018)

- Identify tree care needs
- Locate and identify heritage trees
- Prioritize hazard tree risk mitigation
- Identify tree-deficient schools for future plantings
- Enable the District to strategically plan for long-term urban forest tree care and hazard prevention
- Priority for grant: Zones 1-5

565 trees inventoried to date!





SCHOOLYARD IMPROVEMENT REQUEST COMMITTEE

- **Purpose:** to ensure schools receive relevant information regarding future site developments, underground utility lines, and potential resources to help them plan and implement the project
- **Frequency:** Committee meets every other week (4 reviewers, 2 facilitators)
- **Since September:** Met 6 times, reviewed 25 projects
- **Link:** [Application for Schoolyard Improvement Projects](#)





WEB UPDATES

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AUSTIN
Independent School District

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HOME ABOUT US SCHOOL BOARD SCHOOLS DEPARTMENTS COMMUNICATIONS CAREERS

Austin ISD Sustainability

- Energy & Water
- Food & Nature
- Transportation & Air Quality
- Waste & Procurement

Our Commitment

News & Events

Resources

Get Involved

Add/Edit Events

Austin ISD Sustainability

[View](#) [Edit](#) [Menus](#)

Austin ISD has embraced sustainability as a driving force behind its mission to provide a comprehensive educational experience that is high quality, challenging, and inspires students to make a positive contribution to society. Austin ISD's sustainability program seeks to build a culture of environmental awareness and action at Austin ISD schools and the community we serve.

Guided by the [Environmental Stewardship Advisory Committee](#), the district is working to balance the needs of the environment; the diverse community we serve; and available financial resources across the three foundational pillars and eight sustainability action areas shown below.

- Assist with outreach & engagement
- Easy to access toolkits
- Info about Sustainability Plan
- Green Team support

SUSTAINABILITY ACTION AREA UPDATES

SUBCOMMITTEE LEADERS



TRANSPORTATION & AIR QUALITY

Transportation



Air Quality



	Updates	In Progress / Next Steps
Mobility Challenge	Employee commute options & discounts	Employee engagement, expanding discounts
Mobility Challenge	Supporting telework policy and pilot development	Research and Resources
Active Transportation	Bike racks inventoried	Programming, infrastructure inventory
EV Chargers	Exploring options with AE for campus installation	Identify target campuses, budget, process



TRANSPORTATION & AIR QUALITY

Help us fill in bike & walk programs, facilities, and infrastructure:

Campus/Facility	Infrastructure & Operations							Teaching & Learning		Culture and Community				
	Bike parking (y/n)	Estimated Bike parking (#)	Location notes	Other bike amenities (tools, etc)	B-cycle station	Crossing Guard (s)	Shower facility	y/n	Bike program -Who	Bike Program -What (learn to ride, safety, recreation etc)	Earn-a-bike program or bike share (access)	SFTS map	Walking school bus	Bike train
AKINS	y	6	1 south si											
ALC	y	6	1-rack											
Alison	y	6	1-front of											
Anderson	y	12	2-by teach											
Andrews	y	7	1 holds 7											
Ann Richards	y	6	1 holds 3											
Austin High	y	10	2 holds 5											
Baily	y	60	6 holds te											
Baker Center	n/a		n/a											
Baldwin	y	84	11 racks =											
Barrington	y	10	1 holds 10											
Barton Hills	y	12	1-front of											
Becker	y	10	1 in front c											
Bedicheck	y	7	1 holds 7											
Blackshear	y	24	4 holds 3											
Blanton	y	10	1 in front l				y	Mr Mende	Recess learn to					



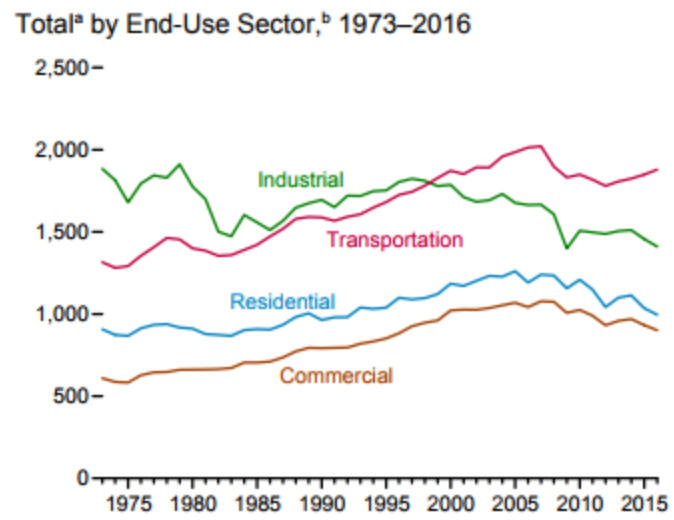
[Link to Inventory Doc](#)



TRANSPORTATION & AIR QUALITY

Sustainability Plan:

- GHG Emissions reduction goals -aligned with City of Austin Climate Plan:
 - *Reduce GHG Emissions from transportation, fleet vehicles and equipment to reach net zero emissions by 2050 (aligning with CoA Community Climate Action Plan)*
 - Inventory tools and reporting frameworks benchmarked
 - *Next:* Baseline data, modeling scenarios, tracking and reporting
- Final revision



Source: <https://www.eia.gov/totalenergy/data/monthly/pdf/sec12.pdf>



TRANSPORTATION & AIR QUALITY



Sub-Committee Member Goals:

- AISD/Transit connectivity and collaboration
- Idling reduction on campuses – identify barriers and strategies, communication for reduction
- Identify and expand active transportation programs within schools
- AISD + COA collaboration on active transportation barriers, Safe Routes to Schools



NATURE SUBCOMMITTEE

- Finalizing list of what green schoolyard features are on each campus (13 schools left!)
 - Plans to analyze results to identify current needs for district support
 - Develop strategies to support current nature features
- Analyze CCCN maps to identify nature-deficit areas and priority campuses and target outreach and programming to schools (Equity)
- Display COBOR in visible location at each school (posters are made- will be putting together folder of materials to deliver with poster)



NATURE UPDATES

- Incinerator chimney has been uncapped at Brooke for Chimney Swifts
- CCCN is finishing installation at Barrington- Green School Park with Wooldridge and Cook on board next. Ribbon Cutting March 24th
- Girls Outside Co-op grant connecting over 250 girls to nature from 10 AISD campuses (Brooke, Rodriguez, Metz, Mathews, Covington, Small, Eastside, Austin, Webb, Cunningham) with field trips to Westcave and Pedernales Falls SP
- Outdoor learning spaces have been included in the new Ed Specs for construction management



NUTRITION & FOOD SERVICES

- Local purchases increased from 45% (school year 2015 – 2016) to 46% (school year 2016 – 2017).
- Total food spend sourced from producers that employ sustainable production increased from 10% (school year 2015 – 2016) to 11.5% (school year 2016 – 2017).
- Disposable foam tray update – between August - November, we have used 212,500 less trays than this time last year
- Recyclable trays are due to be delivered into cafes beginning in March
- Subcommittee group is compiling a Central Texas Food Systems Field Trip Guide



ENERGY & WATER

➤ Goals for Energy & Water Action Area

1. Establish energy and water management system

- Establish team and define roles and responsibilities
- Prepare District policies and procedures

2. Carry out planning process

- Review energy performance
- Set objectives and targets
- Prepare action plans

3. Reduce energy and water use

- Carry out action plans
- Monitor and report on performance



ENERGY & WATER

4. Optimize operational efficiency

- Operations and maintenance guidelines
- Training

5. Integrate energy and water conservation into building design

- Green building standards

6. Provide opportunities for campus engagement

- Green teams
- Student activities

7. 20% renewable energy by 2020

- Install solar PV (about 3.5MW total) and purchase green energy



ENERGY & WATER

➤ Priorities for Energy and Water Management

1. Establish Energy Management System

- ISO 50001 - continuous improvement framework
- Describe roles and responsibilities for energy management
- Include operational policies and procedures
- State objectives and targets for energy performance
- Prepare action plans to meet objectives and targets
- Document and monitor energy performance

2. Improve Data Collection and Analysis

- Interval metering of electricity and water supplies
- Data collection in Energy Information System to facilitate analysis



ENERGY & WATER

3. Improve HVAC Controls

- HVAC largest energy end-use service with wastage due to poor controls

4. Student and Staff Engagement

- Present energy and water consumption information
- Energy and water awareness activities

5. Energy and water conservation projects

- Identify and implement small (non-construction) projects



ENERGY & WATER

➤ Recent Activities

- Austin Energy is investigating a solution to provide billing information electronically for import to our utility database. (Lead by ESAC member Jeff Wacker)
- Tracking unusual water consumption from utility bills – possible leaks are being identified and service center staff are attempting to find them.
- Monitoring overnight electricity consumption through Austin Energy Load Profiler. Quantified potential savings of \$250,000 by reducing electricity demand at high schools from 10pm to 6am.



ENGAGEMENT & OUTREACH

Check out our Zero Waste Tool Kit!

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

ZERO WASTE
Toolkit





SUBCOMMITTEE TIME!





AUSTIN

Independent School District

Sustainability



TRIMMING OUR WASTELINE: A STATE OF THE WASTE ADDRESS

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#AISDGreen
@AustinISDGreen



ZERO WASTE OUTLINE

1. Background on Environmental Risk of Landfills
2. AISD zero waste goals and metrics
3. How we measure up
 - a. Data currently available
 - b. Discussion of most efficient data proxy
4. Accomplishments and Next Steps



LANDFILL WASTE REDUCTION = ENVIRONMENTAL RISK REDUCTION

- Groundwater contamination from leachate
- Climate change from methane gas
- Represents loss of potential resources





AISD SUSTAINABILITY POLICY GOALS, 2011

GOALS

The District shall establish strategies and metrics to:

1. Encourage and support the efforts of students, teachers, and staff on individual campuses to implement environmental stewardship behaviors;
2. Further instruction of the environmental, social, and economic aspects of sustainability;
3. Design, construct, and operate high-performance schools and other facilities that are sensitive to natural resource use; conserve energy and water; reduce pollution and waste; promote responsible land development; and deliver a high-quality indoor environment ensuring access to fresh air and daylight;
4. Optimize use of energy and water in performance of facilities and to adopt energy- and water-efficient operations and maintenance protocols;
5. Procure materials, products, and services in a manner that integrates fiscal responsibility and community and environmental stewardship;
6. Reduce waste disposal in landfills by means of source reduction, reuse, recycling, and composting;
7. Increase efficiency and reduce the environmental burden of staff, faculty, and student transportation; and
8. Support the development of benchmarks, time lines, metrics, third-party verification, and the expectation of evaluation in each of the above areas.



AISD Zero Waste Goal:

Austin ISD supports the City of Austin's zero waste goal of diverting at least 90% of all trash from the landfill by 2040.

The City's policy is based on the United Nations Urban Environmental Accord: to reduce per capita landfill waste disposal to ZERO by 2040.



Waste Audit at Eastside Memorial HS, 2015



Lunch monitors promote proper sorting



DATA CURRENTLY AVAILABLE

Campus Recycle/Compost Weight Reports



RESIDENTIAL BUSINESS SCHOOL LANDFILL RECYCLING



FIND MY SCHOOL (BLACKSHEAR ELEMENTARY)

Green School Solutions / Austin ISD / Blackshear Elementary / 2016-2017

OCTOBER 2016		SEPTEMBER 2016	
Recycling:	0 lbs	Recycling:	1320 lbs
Compost:	3048 lbs	Compost:	3140 lbs
Combined:	3048 lbs	Combined:	4460 lbs
Total lbs/Student:	11.25 lbs	Total lbs/Student:	16.46 lbs

AUGUST 2016	
Recycling:	0 lbs
Compost:	0 lbs
Combined:	0 lbs
Total lbs/Student:	0.00 lbs

<http://www.texasdisposal.com/green-school-solution/>



AISD LANDFILL DIVERSION TRENDS 2013-2016



Note: AISD diversion is calculated using recycle and compost weight totals. AISD's goal is related to diversion rates. Since landfill data is not currently available, diversion rates cannot be calculated. Methodology for estimating landfill data is in progress.

Therefore, this graph only shows trends in diversion over the school year.



AVAILABLE LANDFILL DATA:

AISD facilities with landfill pick-up service:	146
Total AISD landfill dumpsters:	180
Total landfill dumpster pick-up services/week:	355
Average weekly pickup/facility:	2.4



A waste audit conducted by teacher William Troy and his Eastside Memorial students, 2016



CURRENT STRATEGIES

- Diversion: compost and recycling services
- Waste stations in strategic locations
- Consistent message: color recognition, dual language, color coded-trash bags



LANDFILL
BASURERO



Soiled Tin (Aluminum)
Aluminio Sucio

Styrofoam Food Containers
Contenedores de Comida de Poliestireno

Plastic Bags, Wrappers, Film
Bolsas, Envoltorios, y Film de Plástico

REDUCE LANDFILL WASTE
AUSTIN Sustainability

COMPOST
COMPOST



ANY Food Scraps
CUALQUIER Resto de Alimentos

SOILED & Clean Cardboard & Paper
Cartones y Papeles SUCIOS y LIMPIOS

COMPOSTABLE Foodware
Productos COMPOSTABLES

ZERO WASTE
AUSTIN Sustainability

MIXED RECYCLE
RECICLAJE MEZCLADO



Rinsed Glass Bottles
Botellas de Vidrio Enjuagadas

Rinsed Hard Plastics (#1-7)
Plásticos Duros Enjuagados (#1-7)

Rinsed Cans
Latas Enjuagadas

Any Clean Paper & Cardboard
Cualquier Papel y Cartón Limpio

ZERO WASTE
AUSTIN Sustainability



ACCOMPLISHMENTS:

- Zero waste event guidelines
- Training for Custodial Staff at Annual In-service Day
- Waste Optimization Study
- Part time staff member
- Voluntary program for schools to improve composting and recycling in common areas (CAPGOG Bin Grant)



Austin HS Global Studies upcycling fundraiser



Eastside Memorial students pick up litter around their school



ZERO WASTE AND PROCUREMENT

In progress:

- Composting services to remaining 26 schools
- Zero waste Station setup guide, downloadable signs
- Zero waste curriculum to classroom
- Student leadership through zero waste projects

Next steps:

- Recycling and compost in all athletic facilities
- Protocol for recycling and safe disposal of unique waste streams



Eastside Memorial ECHS Teacher shows off her hallway's zero waste station to support their school's Breakfast in the Classroom program



CHANGING HABITS PILOT PROGRAM

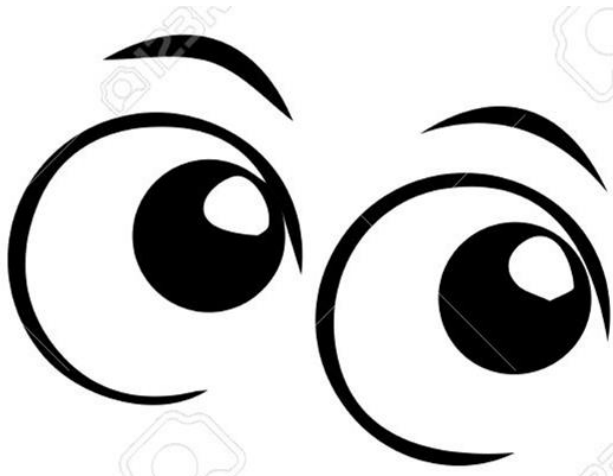
PSSST! It's in the hallway!



- Increase recycling & composting rates
- Decrease Staff Time for Servicing Bins
- Decrease bags purchased and sent to the landfill
- Save money
- Prevent pests



HOW CAN YOU HELP? IDEAS & FEEDBACK



You are the **EYES** and the **EXPERTS** at the schools!



Be on the lookout for ways AISD can improve recycling and composting while making the task easier at the campus



THANK YOU for all you do to help AISD be green!

AMANDA MORTL

AMANDA.MORTLWALKER@AUSTINISD.ORG

AISD ZERO WASTE SPECIALIST

x42665

Mark your Calendar! **FY17-18 Meeting Dates:** 5:30-7:30pm, Board Auditorium, Carruth Administration Center, 1111 W. 6th

September 27, 2017
Food & Nature
November 29, 2017
Waste & Procurement
January 24, 2018
Water & Energy
March 21, 2018
Transportation & Air Quality
May 23, 2018
Elections!



Zero Waste in Austin





What is Zero Waste?

ZERO WASTE IS A GOAL TO GUIDE PEOPLE IN CHANGING THEIR LIFESTYLES AND PRACTICES TO EMULATE SUSTAINABLE NATURAL CYCLES, WHERE

ALL DISCARDED MATERIALS ARE DESIGNED TO BECOME RESOURCES FOR OTHERS TO USE.

ZERO WASTE MEANS DESIGNING AND MANAGING PRODUCTS AND PROCESSES TO SYSTEMATICALLY AVOID AND ELIMINATE THE VOLUME AND TOXICITY OF WASTE AND MATERIALS,

CONSERVE AND RECOVER ALL RESOURCES, AND NOT BURN OR BURY THEM.

Excerpts from Zero Waste International Alliance

Who is Austin Resource Recovery?

Austin Resource Recovery (ARR) is a City Department that provides a wide range of services designed to transform waste into resources while keeping our community clean. Our goal is to reach Zero Waste by 2040, which means reducing the amount of trash sent to landfills by 90%.





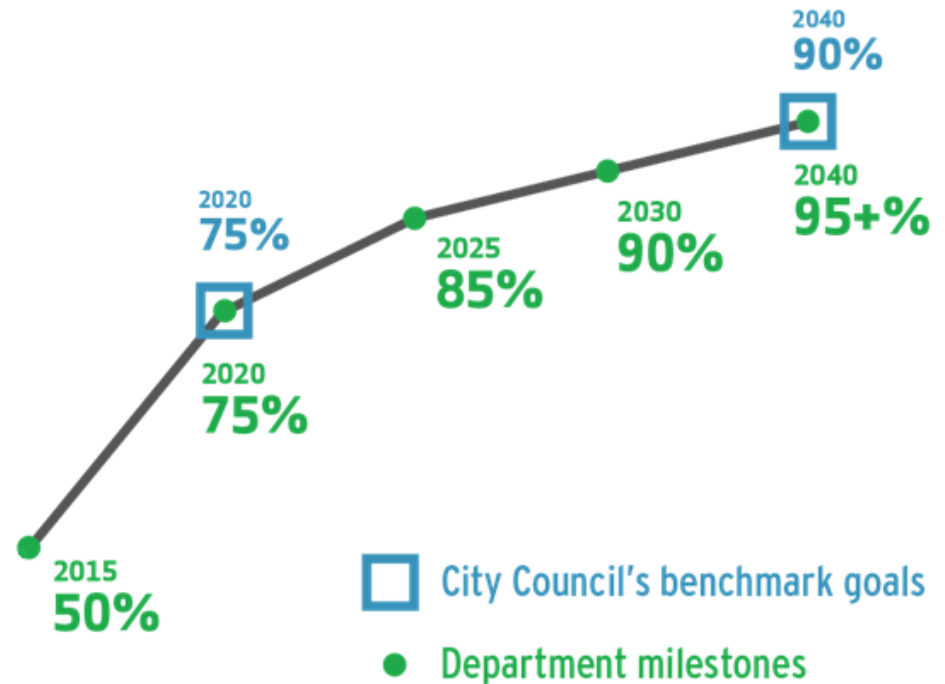
Zero Waste Goals

Zero Waste Philosophy:

- Reduce consumption
- Minimize waste
- Maximize recycling
- Highest and best use

Zero Waste Goal:

Divert 90% of materials from the landfill by 2040





What is Diversion?

- Activities that prevent materials from going to the landfill. May include:
 - Reusing
 - Repairing
 - Repurposing
 - Recycling
 - Reducing
 - Donating
 - Composting





Recycle & Reuse Drop-Off Center

Items Accepted from Residents:

- Appliances, electronics
- Scrap metal
- Oil, paint, pesticide, solvent
- Single stream recycling
- Styrofoam
- Plastic wrap/bags

Services:

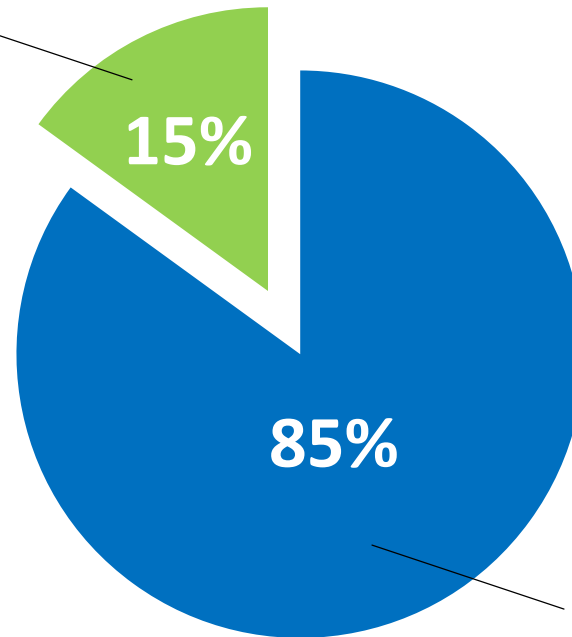
- Reuse Store
- Free Re/Blended Paint
- Battery Take-Back Program





Span of Influence

Mostly Residential
Managed by City of Austin



Commercial & Multifamily
Managed by Private Haulers

Most of the
discards in Austin
are outside of
ARR's control



Community Wide Diversion Study (2015)

Key Findings

- City's diversion rate = 42%
- Commercial/multifamily properties generate >85% of material in Austin
- Over 80% of material sent to landfill is recoverable
 - 37% is organic material

MORE THAN
80%
OF WHAT IS BEING BURIED
OR INCINERATED COULD
HAVE BEEN REUSED,
RECYCLED
OR COMPOSTED.

Universal Recycling Ordinance (URO)



Universal Recycling Ordinance (URO)

Basic Requirements:

- Sufficient recycling capacity
- Exterior recycling container within 25 feet of landfill container
- Recycling services for 5 materials
- Clearly marked containers; education & signs
- Annual Diversion Plan



Keys to effective recycling: Simple, Easy & Obvious!



URO: Timeline

Multifamily Property Phase-In



Multifamily (residential) properties including:

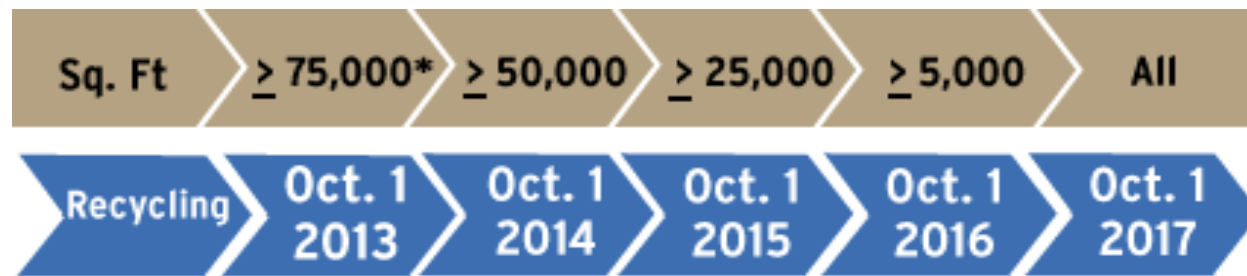
- Apartments
- Dormitories
- Mobile Home Parks
- Condominiums
- Assisted Living Facilities





URO: Timeline

Commercial Property Phase-In



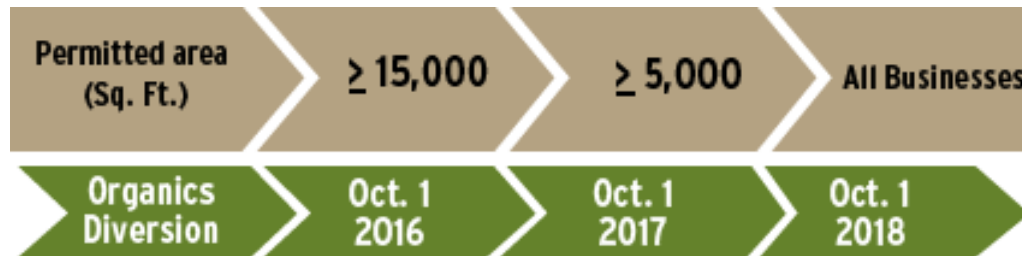
Commercial (non-residential) properties including:

- Retail
- Medical Facilities
- Hotels & Motels
- Religious buildings
- Commercial office buildings
- Private educational facilities
- Industrial & Manufacturing facilities



URO Organics: Timeline

Organics Diversion Business Phase-In



By **Oct. 1, 2018**, all food service permitted businesses will be required to ensure employees have convenient access to organics diversion.

Food Service Establishments including:

- Grocery stores
- Food and beverage industry
- Food trucks
- Manufacturers & Distributors
- Commercial kitchens



Basic URO Recycling Requirements

1. Sufficient recycling capacity
2. Convenient, clearly marked containers
3. Recycling services for 5 materials
4. Signs & education: posters & training
5. Annual Diversion Plan



Keys to effective recycling: *Easy, standardized & obvious!*

#2: Convenient, Clearly Marked Containers

- All exterior containers should be labeled
- Every landfill trash collection point must have recycling collection point within 25 feet
- Should not be more difficult to recycle than it is to access trash (e.g. bags, containers, other barriers)
 - Valet Services
 - Trash Chutes





#3: Required Materials

- Tenants/employees must have access to recycle a minimum of 5 materials



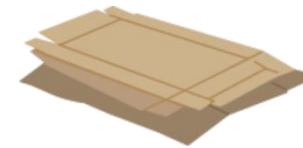
Plastic #1 & #2



Paper



Glass



Cardboard



Aluminum

#4: Signs and Education

- Responsible party must educate tenants/employees
 - Annually and within 30 days of move-in and new hire
 - Training, meeting, email, newsletter
- Educational resources available online at austintexas.gov/uro
- Customizable Signmaker



TIMBER CREEK RECYCLES!



How do I start recycling in my home?

- Find a container just for your recyclables. For example, reuse a 5 gallon bucket, extra laundry bin, reusable bag, or old trash can
- Place it in a convenient place for the whole family
- Recycle the items on this page
- Empty recycling container when you take out your trash
- Take container back home and repeat



WHAT CAN I RECYCLE?



Paper (mixed & office)



Plastics #1 - #7



Glass bottles and jars



Flattened cardboard



Aluminum & steel cans, foil & pie plates



Pizza boxes



Food



Plastic bags



Styrofoam



Paper towels



Sharps

Where do I take my recyclables?

Designated recycling containers are located next to each trash dumpster.

When are recyclables picked up?

Recyclables are picked up twice a week.

Why should I recycle?

Choosing to recycle saves money, creates jobs, saves energy, preserves natural resources, reduces pollution, and is EASY!

Please do not place food or other non-recyclable items in the recycling containers.



austinrecycles.com





Sign Maker

STEP 1: CLICK ON THE SIGN YOU WANT TO CREATE

COMPOST
Desechos Y Papel Sucio

CUSTOMER: YOUR OWN LABEL
www.austintexas.gov/signmaker

RECYCLE
Papel, Botellas y Latas

Empty

Empty

CUSTOMER: YOUR OWN LABEL
www.austintexas.gov/signmaker

LANDFILL
Basurero Municipal

CUSTOMER: YOUR OWN LABEL
www.austintexas.gov/signmaker

www.austintexas.gov/signmaker



#5: Annual Diversion Plan (ADP)

- Due between **Oct. 1 and Feb. 1** each year
- Submitted online on Re-TRAC
(austintexas.gov/diversionplan)

How Does Recycling Work?



What is Recycling?

- A process in which valuable materials flow from collection to an end user who makes the materials into new products
- Single-stream or mixed recycling – all recyclable items go in one bin



Where Do Recyclables Go?

Material Recovery Facility (MRF): A facility where recyclables are sorted into specific categories and processed, or transported to processors for remanufacturing



<https://vimeo.com/199912809>

Baled Materials Sold to Market





Why Recycle?

- Recycling creates jobs
- Uses fewer resources
- Reduced greenhouse gases
- Establishes local end markets

Per 1,000 Tons of Material	
Landfill/Disposal	Recycling Facility
< 1 job	4+ jobs

Recycling Program Design: Office & Common Areas





Interior Containers

1. Inventory → 2. Consolidate → 3. Collection Stations

- Pair landfill trash containers with recycling
- Place in common areas and/or deskside
- Clear signs/labels
- Designate other containers for specific materials
- Repurpose containers (paint, labels)
- Color consistency
 - Blue – Recycling
 - Black/Gray – Landfill trash
 - Green – Organics/compost

Signs and Labels





Purchasing

- Purchase products that are made from recycled material or can easily be recycled
- Replace single-use items with reusable items (e.g. utensils, bottles)
- Buy in bulk to reduce packaging
- Select durable, repairable equipment and furnishings
- Donate and buy refurbished items



Quiz! What Do I Do With...?





What Do I Do With?

Aluminum Cans





What Do I Do With?

Frozen Meal Boxes/Paperboard





What Do I Do With?

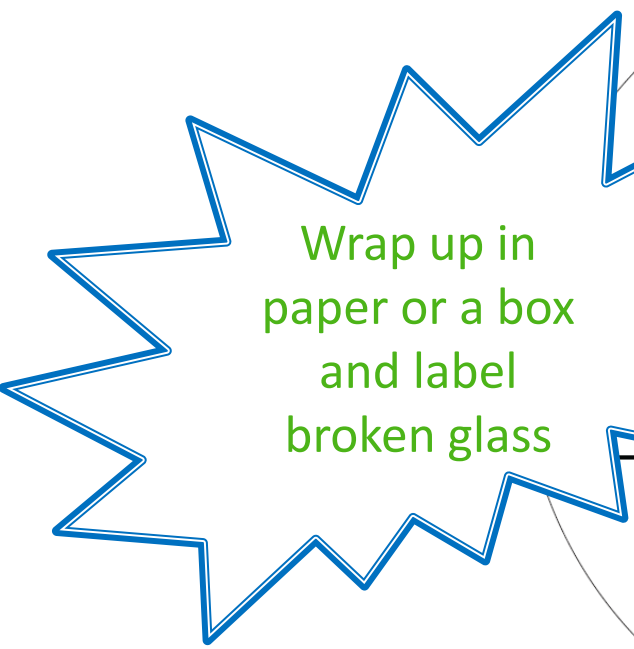
Glass Containers





What Do I Do With?

Broken Glass



Wrap up in
paper or a box
and label
broken glass

LANDFILL

CRASH

**BASURA
SOLAMENTE**



What Do I Do With?

Plastic To-Go Containers





What Do I Do With?

Paper Towels





What Do I Do With?

Banana Peels





What Do I Do With?

Greasy Pizza Boxes





What Do I Do With?

Clean Paper Bags

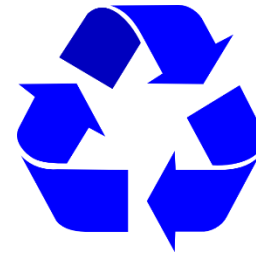


What Do I Do With?

Batteries

**DO NOT PUT IN SINGLE-STREAM
RECYCLING OR TRASH**

- Recycle and Reuse Drop-Off Center
- Austin Public Library branches
- Target
- Batteries Plus Bulbs



www.austintexas.gov/page/battery-drop-locations

What Do I Do With?

Plastic Bags/Plastic Film

DO NOT PUT IN SINGLE-STREAM RECYCLING

- Recycle and Reuse Drop-Off Center
- Local grocery store





What Do I Do With?

Chip bags, candy and snack wrappers

LANDFILL

TRASH

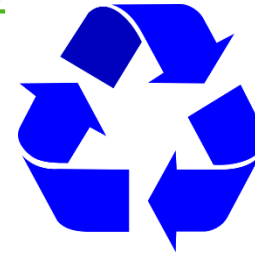
**BASURA
SOLAMENTE**

What Do I Do With?

Wire Hangers

**DO NOT PUT IN SINGLE-STREAM
RECYCLING**

- Local dry cleaner





What Do I Do With?

Polystyrene (Styrofoam) To-Go Products





What Do I Do With?

Polystyrene (Styrofoam) Packaging Products

**DO NOT PUT IN SINGLE-
STREAM RECYCLING**

- Recycle and Reuse Drop-Off Center



Thank You! Questions?

Please take our 2 minute survey
www.surveymonkey.com/r/BOTPrez





Nicole Conley Johnson

Chief Financial Officer

Subject:

Message from CFO -- AISD: Leader in Sustainable, Green Building

October 27, 2017

AISD Sustainability Partners:

In Austin, sustainability is one of our community's most important values. At Austin ISD, we are proud of our commitment to sustainability, including providing opportunities that encourage students to be environmentally aware and involved in their communities.

Working with partners like you, AISD has become recognized as an environmentally, socially and economically [sustainable school district](#) in air quality, energy, food, nature, procurement, transportation, waste and water.

AISD also is earning local and national recognition as a leader in sustainable, green building.

Since the 2004 bond program, AISD has built more than 30 facilities to Green Building Standards, including Padron Elementary School and the AISD Performing Arts Center.

The U.S. Environmental Protection Agency has named AISD the No. 1, K-12 Green Power user in the nation. In addition, Austin Energy has recognized six commercial buildings in the city with its green building, five-star rating. AISD claims two of the six, five-star ratings: the AISD Performing Arts Center and the McCallum High School theater addition.

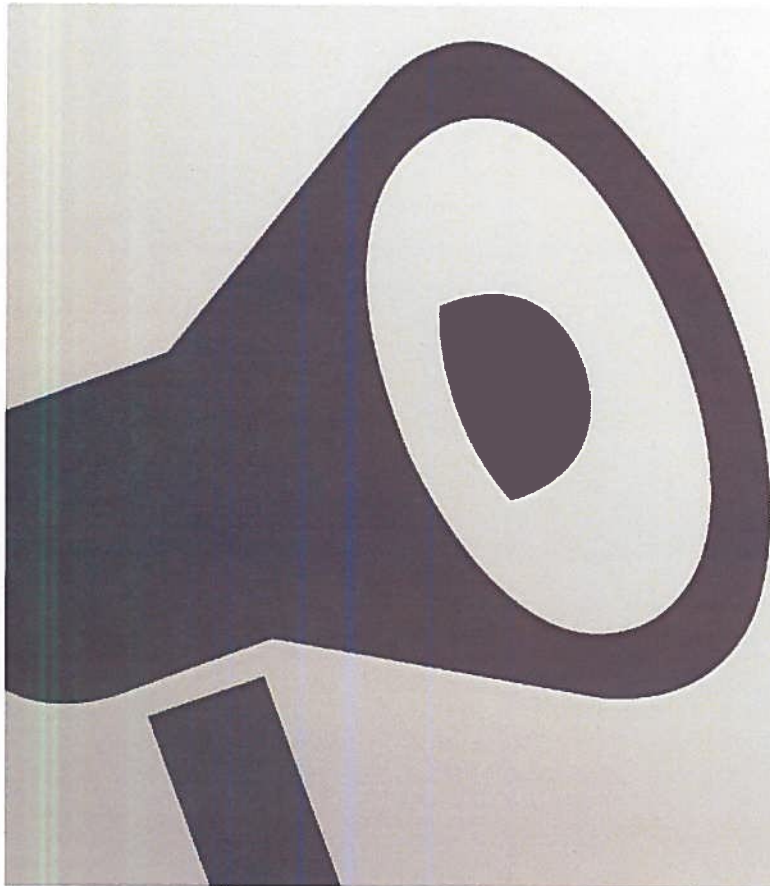
This week, AISD's Board of Trustees recognized the district's construction management and facilities team for earning local and national recognition for embracing sustainability as a driving force behind the design of our schools and buildings. Read the [board resolution](#).

Moving forward, AISD's [Facilities Master Plan](#) and Educational Specifications will continue to integrate sustainable designs to ensure the district's facilities not only conserve resources through a reduced reliance on water, electrical, and gas utilities, but also enhance educational outcomes.

Thank you for helping AISD earn local and national recognition for building sustainable facilities, while showcasing our buildings as living laboratories to inspire the next generation of designers, builders and leaders.

Sincerely,

Nicole Conley Johnson
Chief Financial Officer



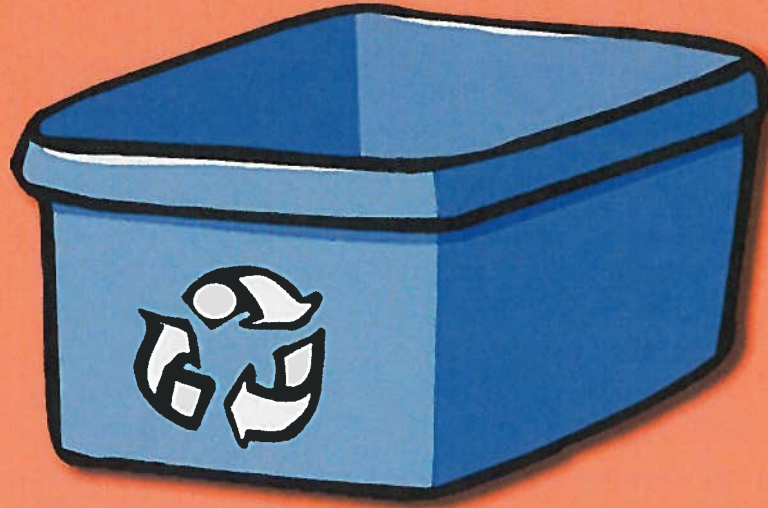
Austin's Bond Election Advisory Task Force wants to hear from you!

Visit AustinTexas.Gov/2018Bond
for all feedback opportunities.

SURVEY AND SIMULATOR CLOSE 12-8-2017



JASON LEARNING AND ISRI PRESENT



2018 Recycling Video & Poster Contest

RECYCLING IS BIGGER THAN THE BIN

Calling all artists, filmmakers, and recyclers! Students in grades K-12 are invited to participate in a national recycling awareness contest sponsored by the Institute of Scrap Recycling Industries (ISRI) and JASON Learning. The theme of this year's contest is "Recycling is Bigger than the Bin!"

Most of the recycling we see today happens in the blue bin in your house. We recycle our paper, newspapers, aluminum cans, plastic bottles, and steel food cans by placing them in the blue bin and putting it on the curb once a week. That's easy!

But what about those things that are "bigger than the bin"—how are those recycled? All around us there are items that will not fit into that bin. Everything from bicycles to skyscrapers can potentially be recycled, but not in a blue bin.

Your challenge is to choose an item that is "bigger than the bin" and find a way to recycle it!

Create something amazing, and you could win our grand prize—a trip to ISRI's annual convention, which will take place in April 2018 in Las Vegas!

**CONTEST DEADLINE
DECEMBER 15, 2017**

**VISIT WWW.JASON.ORG/RECYCLING-CONTEST TO SEE COMPLETE RULES AND GUIDELINES.
CONTEST SUBMISSIONS MUST BE SUBMITTED ONLINE.
ENTRIES CAN BE AS INDIVIDUALS OR TEAMS.**





Take A Picture ~ Contribute Your Thoughts



Calmness Quantified ~ Water Reimagined

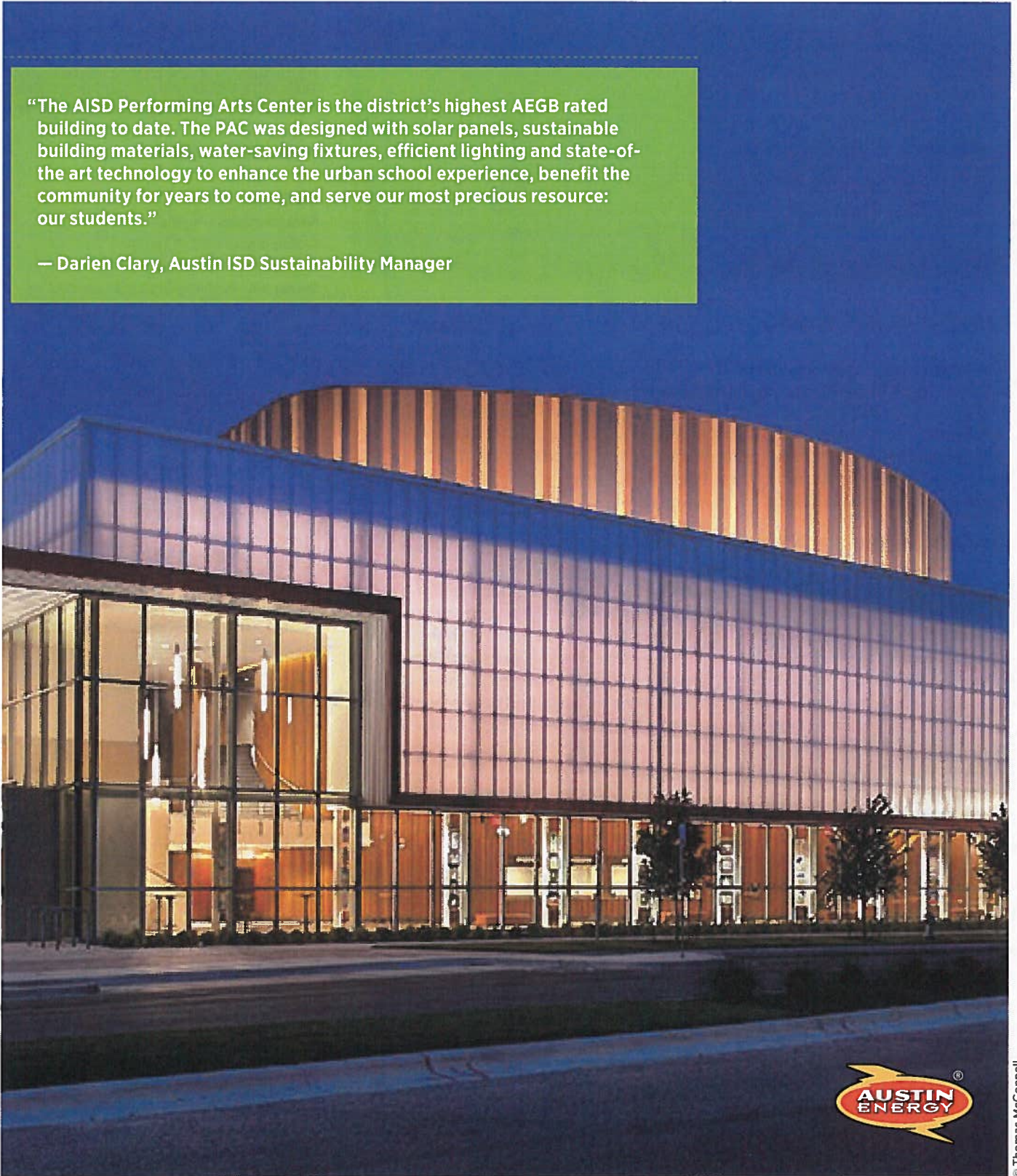


CASE STUDY
AISD PERFORMING ARTS CENTER

GREEN BUILDING RATING:
★ ★ ★ ★ ★

“The AISD Performing Arts Center is the district’s highest AEGB rated building to date. The PAC was designed with solar panels, sustainable building materials, water-saving fixtures, efficient lighting and state-of-the-art technology to enhance the urban school experience, benefit the community for years to come, and serve our most precious resource: our students.”

— Darien Clary, Austin ISD Sustainability Manager





CASE STUDY AISD PERFORMING ARTS CENTER

GREEN BUILDING RATING:
★★★★★

TOP FEATURES:

- » 31.6% modeled energy savings through efficient HVAC, building envelope, lighting systems and 60.5 kW solar array
- » 65% potable indoor water savings with efficient plumbing fixtures and use of reclaimed water
- » 83% of project construction waste, totaling 835 tons, diverted from the landfill
- » 34% recycled content building materials with 51% Texas-sourced and over 90% FSC certified wood
- » Optimized acoustics provide control for a range of performances

PROJECT DESCRIPTION:

The Austin Independent School District Performing Arts Center (PAC) is home to the district's band, orchestra, theater, dance and visual arts performances. The 68,363 sq.ft. facility includes a 1,200 seat theater, dance studio, recording studio, multi-purpose room and administrative offices. A 250-seat black box theater provides flexible performance space for smaller events and training. The building is also available to rent for public events. The project achieved both an Austin Energy Green Building 5-Star rating and a LEED Gold certification.

ENVIRONMENTAL FEATURES:

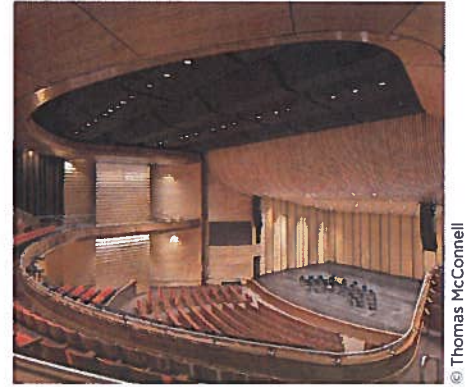
The PAC is located in the LEED ND Gold certified Mueller neighborhood, a 700-acre public/private joint development that transformed the former municipal airport into a sustainable community. The remediated brownfield with thousands of yards of recycled concrete runways is now a dense, walkable site with generous green spaces. Mueller is also home to the largest concentration of affordable housing and features transportation options like bike paths and public transit. The building's adjacent garage provides shared structured parking and is equipped with electric vehicle charging stations. The PAC is walking distance to restaurants, a grocery store and other services.

The building's outdoor irrigation and indoor toilet/urinal flushing utilizes the City of Austin's reclaimed water system, resulting in over 900,000 gallons of potable water savings annually.

Selection of high efficiency chillers and fans, LED lighting, and a high performance envelope resulted in an estimated 31.6% energy savings. A district-wide renewable energy bond funded a 60.5kW solar array which is expected to produce nearly 80,000 kWh of clean, renewable electricity per year.

The team conducted daylight analyses to maximize the physical and psychological benefits of natural light. Translucent glazing is used overhead in the main lobby to diffuse light and avoid glare. Over 90% of regularly occupied spaces, outside of the theater, benefit from daylight access.

Extensive wood paneling, sourced from sustainably-managed forests, optimizes the acoustics within the theater. The theaters are sound isolated and acoustic curtains allow greater acoustic control for the anticipated range of performances.



© Thomas McConnell

PROJECT PROFILE

- Zip Code** » 78703
- Neighborhood** » Mueller
- Building Area** » 68,363 sq.ft.
- Rating Date** » April 2014
- Owner** » Austin Independent School District
- Architect** » Pfluger Architects in association with Miro Rivera Architects
- General Contractor** » American Constructors
- MEP / Structural Engineer** » Jose I. Guerra
- Civil Engineer** » I.T. Gonzalez Engineers
- Landscape Architect** » Coleman and Associates
- Commissioning** » ACR Engineering
- Acoustics** » BAi
- Sustainability Consultant** » Studio D Consulting + Design
- Theater Consultant** » Schuler Shook
- Roof Consultant** » Austech
- Technology Consultant** » BAi
- Parking Garage Structural Engineers** » DCI
- Parking Garage Engineers** » Graelic

Austin Energy Green Building cultivates innovation in building and transportation for the enrichment of the community's environmental, economic and human well-being.

- Location** » 811 Barton Springs Rd., Suite 400 Austin, TX 78704
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- Web** » greenbuilding.austinenergy.com
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