

Appendix 6 City of Austin Department of Aviation Austin Bergstrom International Airport
Case Example

Appendix 6
City of Austin Department of Aviation
Austin Bergstrom International Airport (AUS)
Austin, Texas

The City of Austin is committed to achieving zero waste by 2040. The City's Zero Waste Plan and programs managed by the City's Resource Recovery Department are focused on transforming waste into resources. As a City Department, the Aviation Department is responsible for aligning operations at Austin Bergstrom International Airport (AUS) with the City's Zero Waste vision. The Aviation Department has established that it will incorporate sustainable principles and environmental stewardship into all aspects of the culture, planning, development, and operations at AUS. To do so, the Aviation Department focuses financial, labor, space, and other resources toward:

- reducing natural resource consumption;
- engaging with business partners and stakeholders;
- incorporating sustainability in operations and maintenance practices through training, staff engagement, technology improvements, and management support;
- reducing waste generation and enhancing waste diversion;
- taking advantage of opportunities to derive business value from improved performance;
- driving continual improvement; and
- maintaining a systematic approach to environmental practices.

AUS's waste management program was established to reduce costs, increase operational efficiencies, address environmental impacts, and align with City policies and the facility's own sustainability goals. The Aviation Department's Environmental Division manages, documents, and supplies containers and bins for a total waste management program at AUS. The Department's Facilities and Finance Divisions also assist with program execution and management. The program is available to employees, tenants, and passengers and includes opportunities for the reduction, reuse, donation, recycling, composting, and disposal of waste.

The Environmental Division has conducted waste stream composition studies, tenant studies, and facility audits to identify opportunities to adjust and improve the program. An Airport Recycling, Reuse, and Waste Reduction Plan is in development; recycling and waste reports; and sustainability reports have also been prepared. AUS's 2017 Aviation Sustainability Report is included as at the end of this case example. The Environmental Division has worked with the facility's waste hauling company to analyze the makeup of the waste stream from tenant areas; to illustrate the fate of different materials after they leave AUS, the waste hauling company separated sample bags of waste materials from concessionaire back of house and public areas (Figure 1) into recyclable (Figures 2 and 3), compostable (Figure 4), and waste categories and discussed the delineations with Division staff.

In addition to assistance from City and Airport Departments and the hauling contractor, AUS's program has been shaped by additional stakeholder involvement. The Environmental Division hosts work sessions with stakeholders such as janitorial staff and tenants to resolve logistical and other challenges. Division staff also collect ideas on strategies to expand and improve the program from other airports' sustainability professionals. The Division also references information in the FAA's *Recycling, Reuse, and Waste Reduction Plans at Airports* synthesis to improve and grow the program.

Passengers have access to a recycling and liquid disposal station at the largest security checkpoint (Figure 5); three additional liquid disposal stations are being assembled for installation at other locations. Passengers have access to hydration stations (water bottle filling stations) in the terminal (Figures 6 and 7); to promote use of these fixtures, AUS distributed 500 water bottles (Figure 8) and directed passengers to the stations the first day they were operational. Information about the terminal recycling program is communicated to passengers via labels on the bins and containers. The liquid disposal stations are serviced by Facilities Department staff; they are wheeled to a custodial closet and drained, then returned to service.

The Environmental Division trains Aviation Department employees on waste management strategies and AUS's program; this education is included in new employee and recurring training programs. The Environmental Division also sends emails about the program to employees. Maintenance employees reuse materials where possible, including chain-link fencing and other building materials. Janitorial services, including handling waste and recycling, are provided by Airport Facilities Department staff.

AUS's Gainsharing Program incentivizes Aviation Department support of the waste management program by providing the opportunity for employees to earn bonuses based on the program's progress toward its objectives and targets; a copy of the 2018 incentives is included at the end of this case example. In 2018, employees will have the opportunity to earn two hundred dollars each if the program achieves a terminal diversion rate of 26% to 28.99% and two hundred and fifty dollars if it achieves 29% or greater. The Gainsharing Program includes incentives for other Department goals as well, such as safety, customer service and economic milestones. Information about the program's progress is included in the AUS's Sustainability Report, which is available to internal and external stakeholders.

AUS's program is serviced primarily by a single local collection company. The Environmental Division administers the contract with the hauling company; funds waste management activities in the Division's budget; monitors program activities; and measures and tracks program metrics. The waste hauling contractor provides weight data about materials collected from AUS, including some information from recycling trucks that have integrated scales. The contractor also offers landfill and recycling facility tours; assists with stream studies; and takes the time to understand and address the AUS's unique challenges. Per the collection contract, AUS receives some rebates for recyclable materials.

AUS's tenant leases and service contracts include specific requirements for participation in the program and compliance with City of Austin policies; the specific contract language is included at the end of this case example. Tenants are required to participate in recycling composting and other waste programs implemented by AUS or mandated by the City. The Environmental Division provides training for tenant employees to support their participation in these programs. Division staff also attend biweekly tenant meetings to provide program updates and answer any tenant questions. Airport tenants are eligible for small business rebates for their waste programs offered by the City's Resource Recovery Department.

Cardboard is recycled by tenants in a program facilitated by AUS's logistics company, Bradford Logistics. Tenants separate cardboard from other materials and Bradford Logistics collects cardboard during its delivery route. Bradford Logistics also collects cardboard generated by deliveries to its loading dock and warehouse. Most of the cardboard is captured at the terminal and placed in a compactor designated for cardboard, while the rest is captured at Bradford's warehouse and placed in a recycle dumpster. The

Division and the hauling company are also considering a program for plastic wrap generated from deliveries to AUS based on the success of the cardboard program.

The City's waste ordinances require restaurants to compost based on their size. AUS's composting program includes materials from the pre-consumer back-of-house waste stream, including food waste, paper products, and coffee grounds. This program illustrates the Environmental Division's focus on waste generated from concessionaire activity due to its prominence in the overall waste stream. With the support of the City's Resource Recovery Department, the Division provided containers and bilingual training for the trial phase of the composting program and had carts made to transport the compost containers through the terminal. Going forward, the food and beverage tenants are required to participate in AUS's program and to comply with the City's program at their own cost. Food and beverage tenants are explicitly required to provide recyclable service items; the specific requirements are listed at the end of this case example. Alternatively, compostable materials are being considered.

The Environmental Department developed a trial plan for the facility's composting program; included at the end of this case example. On a daily basis, an employee from the restaurant operator collects food waste and other compostables from each restaurant (Figures 9 and 10) using the cart designed for this program (Figures 11 to 15) and swapping each restaurant's full container for an empty one. The cart is taken down to the apron level in an elevator where the hauling company collects it during their service of the other waste and recycling compactors and transfers the materials to a composting dumpster in another location (Figures 16 to 18). The hauling company also rinses the food waste containers and delivers them back to the elevator area for the next day's route.

The Environmental Division partnered with food and beverage operators Delaware North and Paradies to collect and donate food. The restaurants managed by these companies place edible food items, typically pre-made/package items like sandwiches, wraps, and salads (Figure 19) in a common refrigerator located in a back-of-house service corridor area (Figure 20) and log the weight of their donation (Figure 21). AUS's logistics company, Bradford Logistics, transports the food from the refrigerator to a refrigerator at their warehouse in a non-secure area of AUS. The food is picked up by Keep Austin Fed, a local organization that provides meals to those in need. The program donates between 70 and 100 meals each day; in the first seven months the program collected about 8,190 pounds of food. The Environmental Department also maintains a standard operating procedure for the food rescue program.

Some of the airlines operating at AUS participate in the recycling program, including some that recycle deplaned items. The Environmental Division completed an airline specific waste stream composition study with four of its largest airlines. This involved sorting through the waste generated by three of these airlines and the waste and recyclables generated by a fourth.

The Environmental Division responds to changes in the waste stream from the airlines and other tenants. For example, when a lapse in one airline's procedure resulted in the disposal of thousands of blankets, the Division recognized the issue, partnered with a local cleaners, and donated the blankets to organizations assisting with Hurricane Harvey relief. The airline eventually returned to its standard practice of washing and reusing these blankets, but the Division was able to redirect several thousand blankets during the short

time before the correction was made. The Division is now working with another airline that does not have a blanket reuse procedure in place; blankets from this source are donated to local animal shelters.

The Environmental Division is evaluating strategies which would allow for the reinstatement of a program that donated toiletries and other items to local shelter organizations. This program was discontinued due to challenges associated with other interest in these items, but the Division hopes to address these issues and reintroduce the program in the future.

The Environmental Division has identified the need to improve the passenger-facing recycling program in the food court areas. The current program has non-matching containers and some of the container lids do not allow for the proper separation of food court items, such as plastic clamshell containers. AUS is preparing to launch a media campaign about the waste management program in the public areas of the terminal to increase public awareness. AUS is also evaluating the advantages of compostable serviceware requirements for food and beverage tenants and the potential to introduce a food waste dehydrator based on information from Vancouver International Airport (YVR). The layering of existing and new strategies is designed to allow the Aviation Department to meet its goals as well as the City's zero waste objectives.



Figure 1: Sample bags of waste materials from concessionaire back of house and public areas for material sort by waste hauling company; courtesy of City of Austin Department of Aviation



Figure 2: Recyclable materials from concessionaire back of house and public areas as sorted by waste hauling company; courtesy of City of Austin Department of Aviation



Figure 3: Recyclable materials from concessionaire back of house and public areas as sorted by waste hauling company; courtesy of City of Austin Department of Aviation



Figure 4: Compostable materials from concessionaire back of house and public areas as sorted by waste hauling company; courtesy of City of Austin Department of Aviation



Figure 5: Liquid station at security checkpoint; courtesy of City of Austin Department of Aviation



Figure 6: Terminal hydration station signage; courtesy of City of Austin Department of Aviation



Figure 7: Terminal hydration station; courtesy of City of Austin Department of Aviation



Figure 8: Water bottles distributed to promote new hydration stations; courtesy of City of Austin Department of Aviation



Figure 9: Food waste collected from Airport restaurant for composting; courtesy of City of Austin Department of Aviation



Figure 10: Food waste collected from Airport restaurant for composting; courtesy of City of Austin Department of Aviation



Figure 11: Food waste compost collection cart; courtesy of City of Austin Department of Aviation



Figure 12: Food waste compost collection cart; courtesy of City of Austin Department of Aviation



Figure 13: Food waste compost collection cart; courtesy of City of Austin Department of Aviation



Figure 14: Food waste compost collection cart; courtesy of City of Austin Department of Aviation



Figure 15: Food waste compost collection cart; courtesy of City of Austin Department of Aviation



Figure 16: Food waste compost dumpster; courtesy of City of Austin Department of Aviation



Figure 17: Food waste compost dumpster; courtesy of City of Austin Department of Aviation



Figure 18: Contents of food waste compost dumpster; courtesy of City of Austin Department of Aviation



Figure 19: Pre-made and packaged food items collected for donation; courtesy of City of Austin Department of Aviation



Figure 20: Food donation refrigerator; courtesy of City of Austin Department of Aviation

Plane Box Donations

Item	Quantity
Caesar Salad	5
Fruit Cup	1
Ham and Swiss	9
Hummus	3
Yoguer Parfait	1
Ranch Cobb	1
Tuna Sand	9
Turkey Jack Sand	4
Protein Box	
Cheese and Crackers	1
Med Tuna Salad	
Chicken Salad Sand	

Employee Signature: Maria Coujos
Date: 3-2-2017

Figure 21: Food donation log; courtesy of City of Austin Department of Aviation

2017

Aviation Sustainability Report



Austin-Bergstrom
International Airport

U.S. News & World Report

Best place to live in America

U.S. Census

#1 fastest growing metropolitan area
in the U.S. for five years in a row with
16.6% population growth

J. D. Power

Ranked No. 2 in the USA for vacation
destination

Associated General Contractors, Austin Chapter

2015 Outstanding Construction
Award for CONRAC facility



Austin-Bergstrom
International Airport

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AUSTIN GROWING



G



A uniquely fly Austin experience was had by 12.4 million passengers in 2016, up 4.5% over 2015, continuing the trend of robust traffic at Austin-Bergstrom International Airport.

Growing along with passenger traffic and the city it serves, Austin's airport is expanding by nine gates, adding acres of airfield space to accommodate more and larger jets, and increasing facilities and services for passengers such as parking and high end shopping options.

All the while, we are continuing that which makes the airport uniquely Austin's – live music, award winning art, and local flavor.

Four areas of sustainability comprise the foundation of the airport:

- **Customer and Community Value**
- **Operational Excellence**
- **Economic Sustainability**
- **Environmental Stewardship**





Austin-Bergstrom International Airport generates \$2.4+ billion into the economy and supports over 40,000 jobs, 4,933 at the airport itself.

(Source TXDOT Economic Impacts report)



WE'RE TUNING UP

Growing with an Austin style to better serve our bustling City and passenger base

- 9 gate terminal expansion
- Low-cost South Terminal opened
- 6,000 new parking spaces; garage construction
- Tasteful, local concessions renovations

CUSTOMER AND COMMUNITY VALUE



Nine carriers start
20 new routes; keeping in tune
with **travelers** and community.

Austin's airport values its customers and places a priority on safety and efficiency. To make traveling more enjoyable, the airport distinguishes itself with a uniquely Austin experience. The airport also values its place in the community. Promoting local arts, assisting neighboring schools and students, honoring military personnel, and helping local businesses work with the airport are ways the airport shows it's more than a facility; it is part of the community.

KEEPING IT AUSTIN

Live Music



The sounds of Austin to the tune of over 10,000 live music shows

In December 2016, Austin's airport celebrated its 10,000 performance including airport music partner Delaware North contributing \$10K to the Health Alliance of Austin Musicians. Over 20 performances per week are presented at the airport in five venues.

SUCCESS WITH A VARIETY OF AIRLINE BUSINESS MODELS

Austin benefits from a healthy mix of carrier types including network carriers, ultra-low cost, low cost, regional, and hybrid models.

CUSTOMER SERVICE EXPANDS

Guest services opened a new, second visitors information center in the newly expanded area of baggage claim. Over 200,000 customers were served at the airport's visitors center in 2016.

WE'RE TUNING UP

Construction communications reaches an audience of over 8,000 through bi-monthly construction Web updates and e-mail blasts.

Follow us [#TuningUp](#)

ELEGANT, EARTHY FASHIONS

Gemstones gracefully infused in metal handcrafted by Austin designer Claire Sommers Buck and cultured pearls in earthy yet sophisticated settings from Austin's WTW Designs set the tone for the new upscale Fifth&Congress store.

Miles and miles of subs!



Austin original ThunderCloud served a total of 94,000 subs in 2016. Lined-up end to end that's 15 miles of subs; enough to line the concourse end-to-end 30 times.

WILLKOMMEN & BIENVENIDO

New transatlantic service to Frankfurt, Germany plus new service south of the border to Mexico City and Guadalajara were international highlights of 20 new routes added by nine carriers in Austin. Of those 13 were new destinations, the remainder increased service to existing destinations.

New International Routes and Carriers

Frankfurt, Germany - *Condor*

Mexico City, Mexico - *AeroMexico*

Guadalajara, Mexico - *Volaris*

Hit the Beach

Panama City, FL - *Southwest*

Pensacola, FL - *Southwest*

Destin, FL - *Allegiant*

St. Petersburg, FL - *Allegiant*

San Diego, CA - *Frontier*

Work and Play

Washington-Dulles - *Frontier*

Seattle - *Delta*

Indianapolis - *Allegiant*

Kansas City - *Southwest*

Raleigh-Durham - *Delta*

Cleveland - *Allegiant*

Pittsburgh - *Allegiant*

Albuquerque - *Allegiant*

Albuquerque - *Southwest*

Minneapolis-St. Paul - *Sun Country*

San Jose - *Alaska*

San Diego - *Alaska*

KEEPING IT AUSTIN Art Exhibits



Americans for the Arts

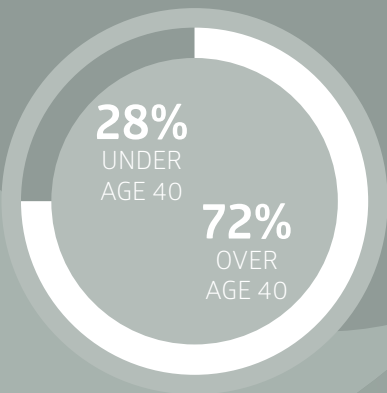
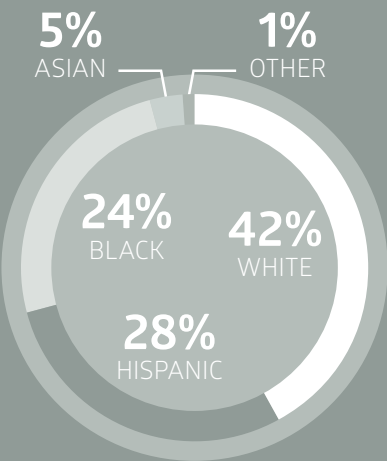
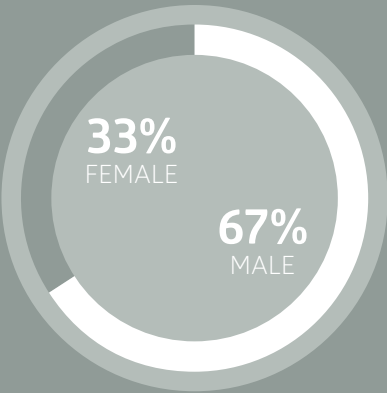
2016 Public Art Network Year in Review

National recognition as one of the “Best In Public Art Projects” was bestowed on Uplifted Ground, by artist Michael Singer, the latest public art installation at Austin’s airport. The honor was presented by the Americans for the Arts 2016 Public Art Network Year in Review. Uplifted Ground was selected from 260 applications. Featuring suspended geometric-shaped sculptures, the work provides an aesthetic walkway between the Barbara Jordan Terminal and the Rental Car Facility.

Changing exhibit program educates travelers about Austin’s art scene. A 2016 favorite featured never before seen works of Charles Umlauf, one of Austin’s most prolific sculptors.

Workforce
Demographics:

Diversity



TOP NOTCH TEAM

The airport's workforce is over 3,000 strong including employees ranging from airlines to concessionaires, TSA to parking. The City of Austin Aviation Department owns and operates the airport and is powered by 400 employees.

OUT IN THE COMMUNITY

The airport's float stars in events including Veterans Day, Austin Children's Shelter, Chuy's Children Giving to Children Parade, and Juneteenth.

GOOD NEIGHBOR TO STUDENTS

Austin's airport partners with neighboring Del Valle Independent School District by providing mentors for students, furnishing school supplies including back-to-school backpacks for students, clothing drives, partnering for holiday festivities with adopt-a-family, and as a board member of Partners in Education.

WINGS FOR ALL, SO THAT ALL MAY FLY

Children with special needs and their families tour the airport and get familiar with the environment and processes before they fly. Fun activity booklets and the airport experience prepared 25 families, totaling 75 people, for upcoming flights.

RUNWAY TO OPPORTUNITIES: DOING BUSINESS WITH THE AIRPORT

To encourage more local business involvement, the airport partnered with the City of Austin Small & Minority Owned Business Resources Department to produce this outreach event. The event connected airport businesses with local vendors and provided information on airport processes.

SHOWING APPRECIATION FOR MILITARY SERVICE

Honor Flights - Flying veterans to their national monuments. Nine Honor Flights departed Austin's airport in 2016 making a total of 40 total since the program began in 2012. Trips are made possible at no cost to veterans by non-profit Honor Flight Austin. The airport's ThunderCloud Subs provide the complimentary lunch, and flights are sponsored by and operated on Southwest Airlines.

At **Thanksgiving** complimentary meals are served to military personnel.



Veteran salutes just prior to boarding the Honor Flight.

OPERATIONAL EXCELLENCE



Expanding our
facilities, maintaining our
style, growing with **Austin.**

A new pet hotel with a guitar-shaped swimming pool adds the Austin touch airport customers enjoy. As passenger numbers increase and Austin grows, the airport is expanding with nine more gates, parking, and customer facilities with Austin style.



9 Things to Know about the Terminal Expansion

- 1** The Barbara Jordan Terminal is designed to serve 11 million passengers annually. The airport currently serves over 12 million annual passengers.
- 2** The terminal expansion project will increase airport terminal capacity to 15 million annual passengers.
- 3** The large construction wall stretching across the concourse near Gate 3 is for terminal expansion to add nine additional gates.
- 4** 88,359 square feet of new terminal, gate area and wider concourse space will be added.
- 5** This expansion features an outdoor patio, a tower, new restaurants, shopping, more music and art, pet and family friendly spaces.
- 6** Austin's airport has operated with 24 gates with jet bridges since opening in 1999.
- 7** The nine gate terminal expansion will increase that total to 33 gates with jet bridges.
- 8** The \$350 million total expansion project includes expanding airfield jet parking and movement area by 36 acres.
- 9** The nine gate expansion is slated to be open in 2019.



South Terminal

THE SOUTH TERMINAL RENOVATION, COMPLETED IN SPRING 2017, PROVIDES THREE NEW GATES.

BARKING, PARKING, OVERNIGHTING & SHOPPING

MORE PARKING, FOR PETS TOO!

New covered parking opened with Park & Zoom in November 2016.

This public/private partnership provides an additional 2,000 customer parking spaces on the airport campus. New Bark & Zoom pet boarding and customer parking opening 2017.

NEW PARKING GARAGE with 6,000 spaces; construction beginning in 2017.

RETAIL DEVELOPMENT is underway and scheduled to open 2017. The development will include a restaurant, store, and gas station adjacent to Cell Phone Lot.

ALL SUITE! The new Hyatt Place is 77,000 square feet and all 139 lodgings are suites. Enjoy the Coffee to Cocktails Lounge 24/7 or take a dip in the resort style pool. In partnership with local nonprofit Celebrate Texas, the Hyatt Place is marked by a giant Texas flag on a 60 feet high flagpole secured by a granite base monument.



Ready for the irregular

Irregular Operations Plan proved its value in handling the largest number of diversions, a total of 49 over two days, December 26-27, 2016.



Temporary bridges

Four temporary jet bridge/elevated walkways constructed to mitigate the impact of construction at gates in the Barbara Jordan Terminal. The longest walkway is 720 feet.



Clean Team

To meet the demands of increasing passenger traffic for a clean terminal, Facility Services implemented a new 4th shift from 3:30 a.m. to noon. The 4th shift is focused on the cleanliness of the concourse's 17 restrooms, keeping them spic-and-span for customers during the busy morning hours.

ECONOMIC SUSTAINABILITY



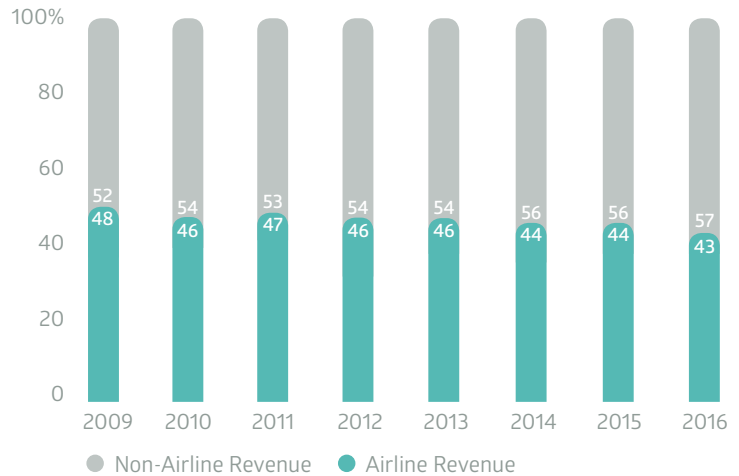
Austin-Bergstrom has a proven
**solid financial
performance** exceeding goals.

The solid financial performance of Austin-Bergstrom International Airport is proven by our Standard & Poor rating of “A” and Moody’s rating of A1.

HOW WE'RE KEEPING COSTS LOW

- Austin's airport generates its own revenue to cover operating costs and future improvements.
- By keeping expenses down and exceeding revenue goals, Austin's airport builds capital for the future. In 2016, operating revenue totaled over \$135M, 3% above projections, while requirements totaled \$103M, 10% below the budgeted \$114M for requirements. This yielded a savings of \$31M, up \$2M from the previous year.

Airline revenue compared to non-airline revenue

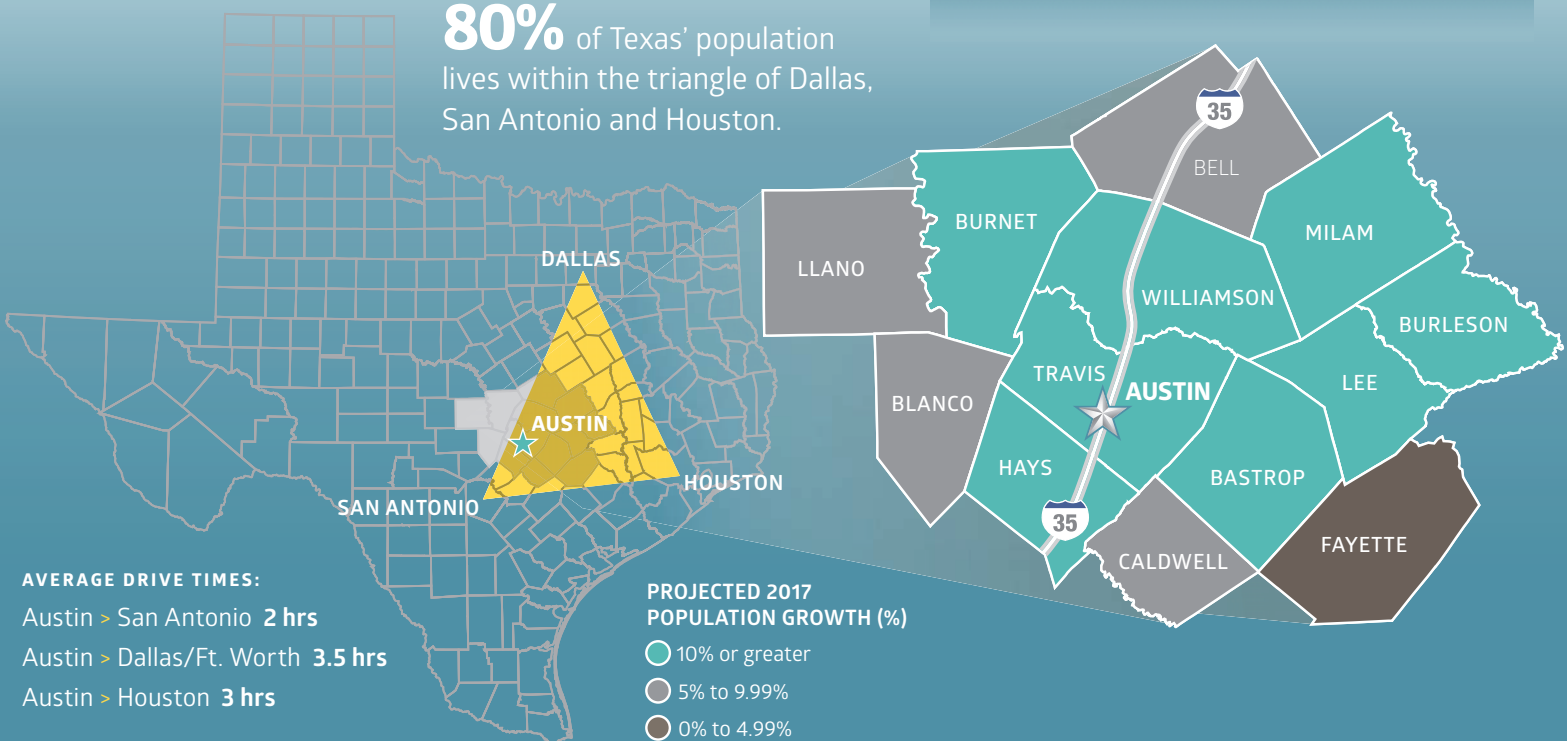


Revenue	2014	2015	2016
Passenger Airline Revenue	42,167,816	47,020,384	51,775,466
Non-Passenger Airline Revenue	5,682,729	5,483,329	6,079,132
Total Airline Revenue	47,850,545	52,503,713	57,854,598
Parking & Ground Transportation	34,241,084	37,429,108	40,322,190
Rental Car	13,378,688	15,416,766	14,639,818
Terminal Concessions	9,782,478	11,251,382	12,535,831
Other Rentals & Fees	3,707,701	3,367,648	10,412,531
Total Non-Airline Revenue	61,109,951	67,464,904	77,910,370
OPERATING REVENUE	108,960,496	119,968,617	135,764,968

Airline vs Non-Airline			
Airline Rev	44%	44%	43%
Non-Airline Rev	56%	56%	57%

80% of Texas' population lives within the triangle of Dallas, San Antonio and Houston.

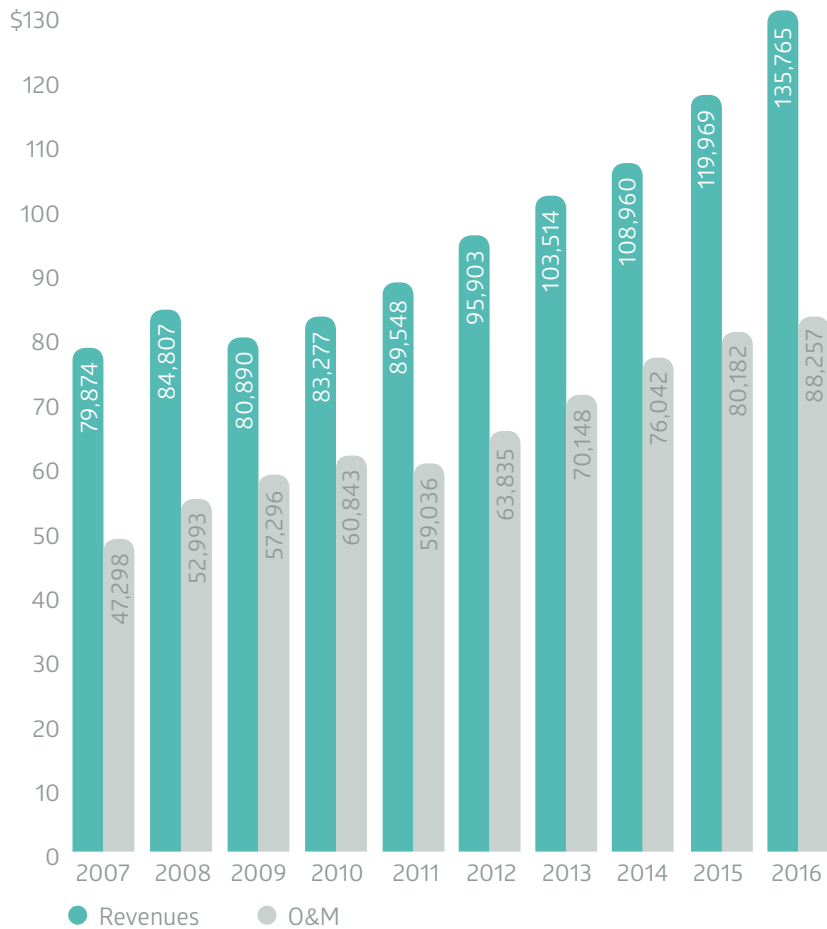
THE "GOLDEN TRIANGLE"





SCHEDULED PASSENGER
NONSTOPS
 FROM AUSTIN

10 Year Financial Performance
 (\$'000) Revenues and Expenses

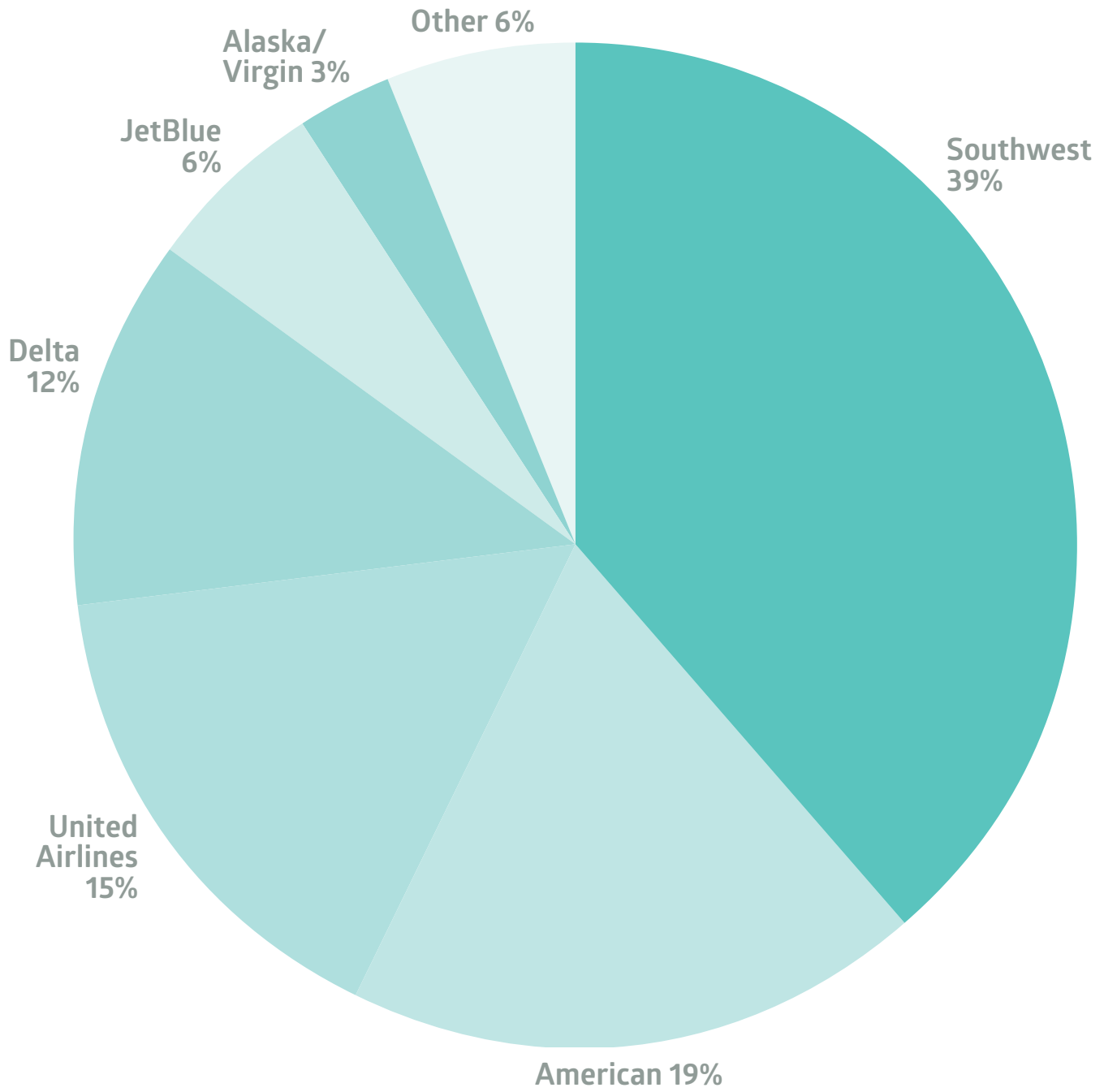


**GLOBAL SUPPORTED
 LOCALLY**

■ The Greater Austin Chamber of Commerce and the Austin Convention and Visitors Bureau spearhead support by area organizations and the business community to increase nonstop air service to Austin.

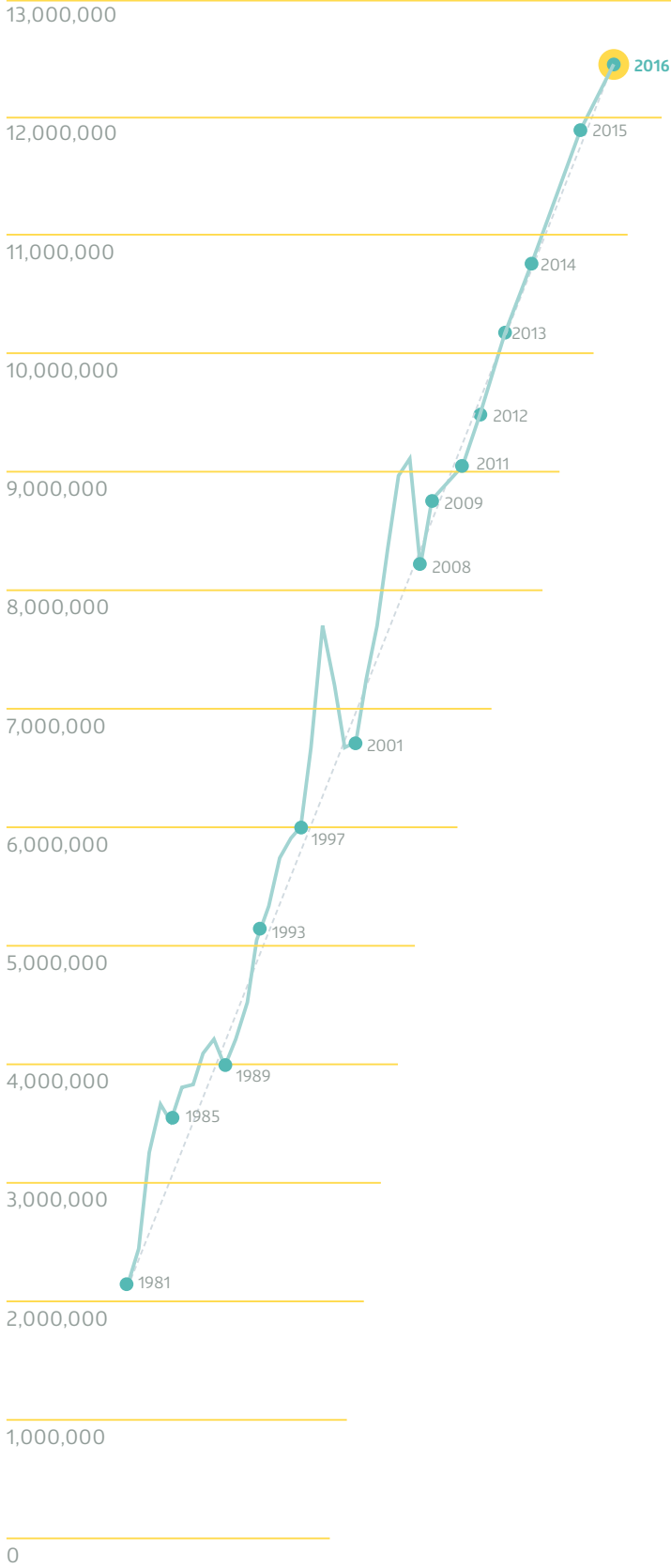
AUS Capacity Share by Carrier

2016 Departures



Total Austin Passenger Growth

(4.5% Average Growth since 1981)



ENVIRONMENTAL STEWARDSHIP



Donation of unsold foods like
sandwiches and **salads**
reduce **impact** on the environment.

Sandwiches and salads are now part of waste reduction at Austin's airport. How? Unsold food products from concessions are collected and donated to Keep Austin Fed. Helping to feed the hungry in Austin while eliminating food going to the landfill is among the innovative ways we reduce our impact on the environment.

ENVIRONMENTAL PROGRAMS

DOUBLING WASTE DIVERSION reduces what is sent to the landfill. In the first year of partnership with Texas Disposal Systems, FY 2015-16, waste diversion rates doubled while the amount of materials sent to the landfill was reduced by 13 percent.

TERMINAL RECYCLING program collects an average of 52 tons of recyclable material monthly. That's about 588 cubic yards of landfill space that won't be used every year. This is equivalent to stacking waste five feet high and the length of a football field.

GOOD TRAVELERS PERSONAL GREEN gives passengers the opportunity to personally help make air travel more sustainable with the Good Traveler Carbon Offset program. Austin's airport joined the program in November 2016. For just \$2, travelers can purchase carbon offsets for 1,000 miles of flying.

WIND POWER FOR TERMINAL & BEYOND

GreenChoice electricity, generated by wind power, has been the sole source of power for the Barbara Jordan Terminal for since 2011. From the terminal, GreenChoice also powers aircraft air conditioning systems and electric support vehicles at the gate, making these carbon neutral operations. So far, 30 aircraft support vehicles are powered by GreenChoice electricity.

LOTS OF LEEDS May 2016 Rental Car Facility received LEED Silver Certification. That brings the Austin's airport to a total of three buildings with Leadership in Energy and Environmental Design (LEED) certification.



100% RENEWABLE ENERGY

used for electrical power to all airport buildings through Austin Energy's GreenChoice® generated by wind turbines.



WATER CONSERVATION

Over 19 million gallons of drinking water saved in 2016 by using reclaimed water.



THERMAL ENERGY STORAGE

Chilled water is stored during off-peak times for cooling the airport during peak afternoon hours, reducing electricity usage by 50%.



SOLAR PANELS

at the airport produce 192,500 kilowatt hours per year.



ALTERNATIVE FUEL STATIONS

Austin-Bergstrom International Airport has used alternative fuel in its airport parking shuttles since it opened in 1999. The airport offers propane and natural gas (CNG) to the general public as well as its airport vehicles.



RAIN GARDENS

Collect and treat precipitation run-off from Spirit of Austin roadway by allowing it to soak into the ground, supporting native vegetation in the rain gardens.



ELECTRIC CHARGING STATIONS

20 fast electric charging points power aircraft support vehicles, reducing annual diesel/gasoline usage by an estimated 40,000 gallons.



RECYCLING

In 2016, 8,827,900 lbs of materials were kept out of the landfill through airport recycling efforts.



BRUSH COMPOSTING

684,760 lbs of airport brush and landscape materials were composted in 2016. This was transported to the local Dillo Dirt™ processing facility.



GREEN HILTON

The Hilton Austin Airport Hotel is one of only three Green Seal certified hotels in Texas, having been awarded the Silver Level Achievement for Environmental Operational Commitment.



LEED CERTIFICATION

Taxi staging area and driver facility received "Gold" (GTSA LEED). East Infill and Rental Car Facility are both Leed "silver."



PERFORMANCE MEASURES

CUSTOMER AND COMMUNITY VALUE:

EXTERNAL CUSTOMERS	UNIT	COMMENT	2013	2014	2015	2016
Overall customer satisfaction with the airport	Ratings	ASQ survey score / percent rating excellent (5's)	4.28/43%	4.34/46%	4.37/49%	4.36/49%
Cleanliness of the terminal	Ratings	ASQ survey score / percent rating excellent (5's)	4.37/52%	4.43/54%	4.43/55%	4.43/55%
Cleanliness of the restrooms	Ratings	ASQ survey score / percent rating excellent (5's)	4.21/43%	4.17/43%	4.25/47%	4.18/45%
Helpfulness of the staff	Ratings	ASQ survey score / percent rating excellent (5's)	4.30/49%	4.35/52%	4.41/54%	4.43/55%
Courtesy of security staff	Ratings	ASQ survey score / percent rating excellent (5's)	4.06/40%	4.16/45%	4.22/49%	4.25/52%
MBE/WBE purchases		New measures				
Under \$5000	Percent		6.66%	7.48%	1.29%	0.1087
Total purchases	Dollars		\$159,722	\$157,811	\$200,129	\$155,214
Passenger flights	Number	Total number of flights	101,593	104,103	112,398	111,614
Direct flights	Number	Includes both domestic and international	121	78		
Non-stop domestic destinations	Number		41	41	46	48
Average seats per flight	Number		121	125	128	133
Total annual seats	Number		12,319,953	13,072,485	14,207,172	14,732,530
Total passengers	Number		10,017,958	10,718,854	11,897,959	12,436,849
INTERNAL CUSTOMERS	UNIT	COMMENT	2013	2014	2015	2016
Total Dept. of Aviation FTE's			358	362	379	415
Injuries						
Lost time injury rate	Number	Per the equivalent of 100 employees	0.95	0.31	0.29	0.59
Injuries reportable	Number		53	52	67	70
Injuries with medical	Number		19	18	27	30
Injuries with no medical	Number		34	30	39	38
Sick hours utilized	Number	Per 1000 hours	25.24	26.27	28.54	29.73
Training hours per FTE	Number	Departmental Average	51	40	16	16
Employee satisfaction	Rating	Score from employee survey (changed survey type in 2011)	32	37	N/A	N/A
Diversity		Dept. of Aviation employees only				
Male to Female	Percent		66% to 34%	65% to 32%	67% to 33%	67% to 33%
White	Percent		42%	40%	42%	42%
Hispanic	Percent		29%	28%	28%	28%
Black	Percent		25%	24%	25%	24%
Asian	Percent		3%	4%	4%	5%
Other	Percent		1%	1%	1%	1%
Employee turnover rate	Percent		8.95%	9.44%	5.63%	8.20%

PERFORMANCE MEASURES

OPERATIONAL EXCELLENCE:

OPERATIONS	UNIT	COMMENT	2013	2014	2015	2016
Annual aircraft operations	Number	Total takeoffs and landings	174,245	179,224	190,081	192,010
FOD - Pounds removed from Apron	Number	Pounds of FOD removed by staff (new measure)	2,724.6	4,080	4,080	5,576
Wildlife/Bird strikes	Number		108	126	89	116
Deficiencies noted during daily 139 inspections	Number		614	654	692	799
Deficiencies noted during 139 inspections	Number		0	2	3	0
AOA warnings issued	Number		0	0	3	4
Security responses with established time	Percent		100%	100%	100%	100%
Security violations issued	Number		48	44	71	58
Average wait times at security checkpoints	Minutes					
Morning	Minutes	Average week day, excluding holidays and special events	18	12.36	16	16
Afternoon	Minutes	Average week day, excluding holidays and special events	14	9.84	12	16
Number of ARFF responses	Number		782	866	948	937
Average time of repairs (from call to completion)	Number	New measure	38	16	40	37
EPAX per gate utilized	Number	Annual enplanements divided by number of gates used	197,159	211,019	231,695	247,219
Enplanements – Change over Prior Period	Percent	Growth or decline	6%	7%	1%	7%
Turns per gate – gate utilization	Number	Avg. number of departures per gate per day	5.7	5.92	6.34	6.46
Passenger boarding bridge	Annual Cost	Reduce maintenance cost 5%	\$391,390	\$335,699	\$327,286	\$358,750
Airfield lighting	Number	5% fixture failures on signage (number replaced)	547	285	663	541
People moving systems	Percent	Elevators 95% uptime (new measure)	94%	93%	99.5%	99.99%
BHS conveying system	Percent	Carousels and Conveyors 95% uptime (new measure)	95%	96%	98%	99.6%
PM Costs compared to total maintenance costs	Percent	Measures effectiveness of PM Program (new measure)	50%	57%	57%	64%
Ratio of productive hours to labor hours	Percent	Measures staff productivity (new measure)	98%	92%	96%	97%
PM's performed on fleet vehicles	Number	Number of PM's performed (new measure 2011)	155		304	288
Cost per parking space						
Cost per covered space	Dollars		\$828.51	\$679.60	\$608.79	\$553.28
Cost per space with busing operation	Dollars		\$529.90	\$625.03	\$612.21	\$557.73
Cost per space without busing or cover	Dollars		\$1,429.09	\$343.86	\$373.46	\$400.11

PERFORMANCE MEASURES

ECONOMIC SUSTAINABILITY:

FINANCIAL	UNIT	COMMENT	2013	2014	2015	2016
Passenger airline cost per enplanement	Dollar		\$8.63	\$7.99	8.12	8.38
Expenses (cost) per enplaned passenger	Dollar	Airport's O&M cost per enplanement	\$13.60	\$14.41	\$13.84	\$14.28
Credit rating	Number		A	A	A	A
Revenue per enplanement	Dollar		\$21.06	\$20.65	\$20.71	\$21.97
Total non-airline revenue	Dollar		\$55,655,106	\$61,109,951	\$67,464,904	\$77,910,370
Non-airline revenue per passenger	Dollar		\$5.99	\$6.18	\$5.83	\$6.31
Non-airline revenue to airline ratio	Percent		57%	60%	56%	57%
Parking revenue per passenger	Dollar		\$6.52	\$6.39	\$6.32	\$6.37
Concession revenue to airport	Dollar		\$8,559,586	\$9,781,041	\$11,251,382	\$12,535,831
Concession gross sales per square foot	Dollar		\$1,300.55	\$1,459.53	\$1,642.90	\$1,870.90
Security cost	Dollar		\$9,510,842	\$9,650,825	\$10,289,064	\$11,022,085
Security cost (percent of Total costs)	Percent		14.18%	12.69%	12.83%	12.49%
ARFF cost	Dollar	Change over previous period (Benchmark Index, D)	\$5,191,211	\$4,846,183	\$5,170,512	\$5,449,061
ARFF cost (percent of total)	Percent	Change over previous period (Benchmark Index, D)	7.74%	6.37%	6.45%	6.17%
ARFF cost per operation	Dollar	Change over previous period (Benchmark Index, D)	\$31.26	\$28.90	\$27.20	\$28.38
ARFF salary and benefits cost	Dollar		\$4,799,541	\$4,711,908	\$4,660,465	\$4,967,849
Personnel expenses	Dollar		\$27,032,670	\$28,905,381	\$31,622,967	\$34,821,579
Repair and maintenance cost	Dollar		\$2,997,046	\$2,124,287	\$2,508,049	\$2,745,255
Total operating revenue	Dollar		\$103,514,000	\$108,960,498	\$119,968,617	\$135,764,968
Total parking and ground transportation revenue	Dollar		\$32,157,713	\$34,181,754	\$37,429,108	\$40,322,190
Off airport	Dollar		\$1,403,806	\$1,626,932	\$1,739,463	\$1,777,881
On airport	Dollar		\$30,753,907	\$32,554,823	\$35,689,645	\$38,544,309
Total landed weight	Pounds		6,122,513	6,392,065	7,090,637	7,421,776

PERFORMANCE MEASURES

ENVIRONMENTAL STEWARDSHIP:

ENVIRONMENTAL	UNIT	COMMENT	2013	2014	2015	2016
Terminal utilities						
		Terminal and central plant only				
Electric	kWh		22,278,056	22,836,040	23,092,303	22,863,651
Natural gas	CCF		137,272	141,207	150,246	133,789
Water	Gallons	Includes terminal irrigation	26,959,168	28,466,050	31,706,400	32,503,900
Waste water	Gallons		26,722,000	28,466,050	31,706,400	32,503,900
Campus utilities						
		Includes terminal and central plant				
Electric	kWh		29,264,294	29,660,980	29,925,601	29,577,706
Natural gas	CCF		187,202	197,246	206,327	180,860
Water	Gallons	2009 Malfunction from water feature caused increase	44,507,900	47,865,700	48,934,681	51,106,434
Reclaimed water	Gallons	New – Irrigation and central plant only	11,531,000	17,150,000	14,384,300	19,669,700
Waste water	Gallons		31,649,232	34,484,800	48,934,682	51,106,434
Electricity provided by Green Choice	Percent	New – % of total electric provided by alternative sources	100%	100%	1	1
De-icing operations						
De-icing operations – aircraft	Gallons	Total diluted fluid used by airlines	9,243	36,830	15,216	5,605
Pavement de-icing – ground operations	Gallons	Total E-36 (gallons) applied by Dept. of Aviation	300	7,179	0	0
Pavement de-icing – ground operations	Pounds	Total NAAC (liquid) applied by Dept. of Aviation	0	0	0	0
Aircraft de-icing pond discharges to wastewater	Gallons	Discharged to City's wastewater system (diluted)	2,284,320	2,532,200	4,402,628	0
Aircraft de-icer treated at wastewater plant	Pounds		4,902	27,793	0	0
Waste management						
Terminal waste to landfill	Tons		2,053	2,148	2,231	2,098
Terminal recycling	Tons		309	291	359	686
Brush composting	Tons		600	335	218	342
Light bulb recycling	Pounds	Pounds of crushed lamps	1,032	893	502	502
Light bulb recycling	Number	Number of whole lamps	1,500	1,673	354	275
Alkaline and rechargeable batteries	Pounds		1,188	1,398	196	622
Electronic waste	Pounds		16,798	13,338	14,336	8,520
Hazardous materials recycled						
Vehicle batteries	Number		28	150	36	30
Tires	Number		325	557	194	202
Oils	Gallons		451	585	399	507
Vehicle fuel usage						
Gasoline	Gallons		35,405	34,900	33,565	31,820
Ethanol (E85)	Gallons		2,150	3,318	3,611	4,925
BioDiesel (B20)	Gallons				8,405	40,357
Diesel	Gallons		17,304	23,469	25,889	1,561
Propane	Gallons		49,332	55,961	45,768	79,925
CNG	Gallons		141,529	154,774	151,189	118,100
Large construction project demolition recycling	Tons	New measure	18,845	3,758	2,743	6,825
Carbon footprint	Metric Tons		2,695	2,861	2,922	3,079
Carbon footprint reduction	Percent	Percent reduction year over year	0%	-6%	2% increase	5% increase
Alternative fuel units						
Mowers	Number	Propane mowers	17	12	16	16
Off-road units	Number	Propane and electric units	38	39	48	48
On-road units	Number	Propane and electric units (Includes buses for parking)	36	35	34	34

ACKNOWLEDGEMENTS

Customers of Austin-Bergstrom International Airport

Austin City Council

Steve Adler, *Mayor*

Ora Houston, *Council Member District 1*

Delia Garza, *Council Member District 2*

Sabino "Pio" Renteria, *Council Member District 3*

Gregorio "Greg" Casar, *Council Member District 4*

Ann Kitchen, *Council Member District 5*

Jimmy Flannigan, *Council Member District 6*

Leslie Pool, *Council Member District 7*

Ellen Troxclair, *Council Member District 8*

Kathie Tovo, *Council Member District 9*

Alison Alter, *Council Member District 10*

City Management

Elaine Hart, *Interim City Manager*

Burt Lumbreras, *Assistant City Manager*

Airport Advisory Commission

Nadia Barrera-Ramirez

Dominique Bobbio

Teddy McDaniel, III

Frank Maldonado

Mike Rodriguez

Ernest Saulmon

Vicky Sepulveda

Bradley Tegeler

John Walewski

Michael Watry

Design and Production

Jim Halbbrook, *Public Information Program & Marketing Manager*

Sandy L. Stevens, *Art Director/Graphic Designer/Photographer*

Photography Credits

Geoff Duncan (cover photo), *Austin Convention & Visitors Bureau*

Jason Bregman, *Michael Singer Studio*

Dan Herron, *Herron Stock Photography*

Loren Lintner, *Airport Operations Supervisor*

Thomas McConnell, *McConnell Photography*

City of Austin Aviation Department

Jim Smith, *Executive Director*

Patti Edwards, *Chief Operating Officer*

Dave Arthur

Ghizlane Badawi

Susana Carbajal

Liz Haran

Shane Harbinson

Donnell January

Jamy Kazanoff



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International Airport

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Gainsharing Scorecard

2018 Goals, Measures, and Targets

Customer and Community Value

Measure	2018 Target
Cleanliness of Terminal	4.40 - 4.42 = \$250 4.43 or greater = \$300
Helpfulness of Staff	4.31 - 4.33 = \$250 4.34 or greater = \$300
Cleanliness/Customer Service (optional)	20 hours = \$300

Operational Excellence

Measure	2018 Target
Strategic Plan Improvement Projects	Division Plan = \$500
Lost Time Injuries	4 - 5 = \$250 0 - 3 = \$300

Environmental Stewardship

Measure	2018 Target
Terminal Waste Diversion Rate	26% - 28.99% = \$200 29% or greater = \$250
1% Carbon Reduction Goal	1% = \$300

Economic Sustainability

Measure	2018 Target
Net Income	\$16,000,000 - \$17,000,000 = \$300 \$17,000,001 or greater = \$350



City of Austin Department of Aviation
Austin Bergstrom International Airport
Tenant Lease and Service Contract Language
pertaining to program participation and compliance with City of Austin policies

Concessionaire shall comply with the City's Universal Recycling Ordinance and any other City and Airport rules, regulations, and ordinances pertaining to waste diversion. If at any time during the Term, Airport establishes an Airport-wide recycling program or food waste composting program, Concessionaire agrees to participate in any such program at its own cost.

City of Austin Department of Aviation
Austin Bergstrom International Airport
Food and Beverage Tenants Service Item Requirements

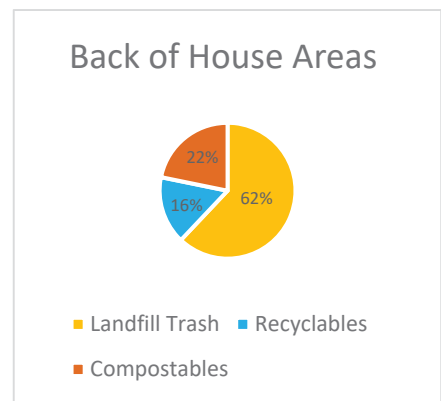
Section 5.02 QUALITY OF PRODUCTS AND SERVICES (E). All food and non-alcoholic beverages on the menu should be made available for customers to carry out if they so request. The containers and plastic ware for carry out should be recyclable, made of sustainable materials, high quality, and substantial enough for the customer to take on an airplane. All food and beverage containers and carry out packaging must be approved by Airport for quality, usefulness, durability, and compliance with City rules, regulations, and ordinances, including but not limited to, the City's Universal Recycling Ordinance No. 20101104-018, or as it may subsequently be amended.

Austin Bergstrom International Airport Composting Trial Plan 1/5/2017

Background:

The Austin Bergstrom International Airport (ABIA) contracted with Texas Disposal System (TDS) in 2015 to provide a "Total Waste Management Program" for the airport. This includes managing waste from the terminal, airplanes "deplaned waste", and various locations around the airport. The overall goal of the ABIA sustainability program and this partnership is to reduce the amount of waste going into the landfill and increase the amount of waste being diverted into other streams through recycling and composting. We measure of the success of the overall waste program through diversion rate. The diversion rate for the terminal is based off of the actual weight of waste being landfilled compared the weight of the waste being diverted into other waste streams such as recycling and composting. ABIA is implementing a composting program in 2017 with the help of onsite concessionaires and TDS.

During the recent single day waste sort, 331 lbs. of compostable material was collected from the "back of house" restaurant areas; which accounted for 22% of the waste from these areas and 3% of the overall waste for the terminal (not including deplaned waste). This works out to approximately 60 tons of compostable material a year that could be diverted from the landfill and put to a beneficial use.



Contract Language

Retail Food and Beverage Concession Lease Amendment

"SECTION [REDACTED] TRASH, WASTE AND REFUSE

B. Concessionaire shall comply with the City's Universal Recycling Ordinance and any other City and Airport rules, regulations, and ordinances pertaining to waste diversion. If at any time during the Term, Airport establishes an Airport-wide recycling program or food waste composting program, Concessionaire agrees to participate in any such program at its own cost."

Composting Trial Plan

The purpose of this plan is to document the goals of the composting trial, clearly detail how the trial is to be carried out and how results are measured. To prepare for the implementation of a "back of house" composting program at the ABIA terminal we are scheduling a composting trial for January 9th through 13th to work out the logistics. To clarify the "back of house areas" of the concourse are the restaurants food prep and work areas which aren't accessible to the public. A training session will be provided by TDS and the COA Aviation Dept. to DNC management on Thursday January 5th at 1:30 pm during their weekly meeting. This trial will be a learning process, so the procedures detailed in this plan may change as the trial goes on to develop the most efficient process.

Composting Trial - Tentative Schedule

JANUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

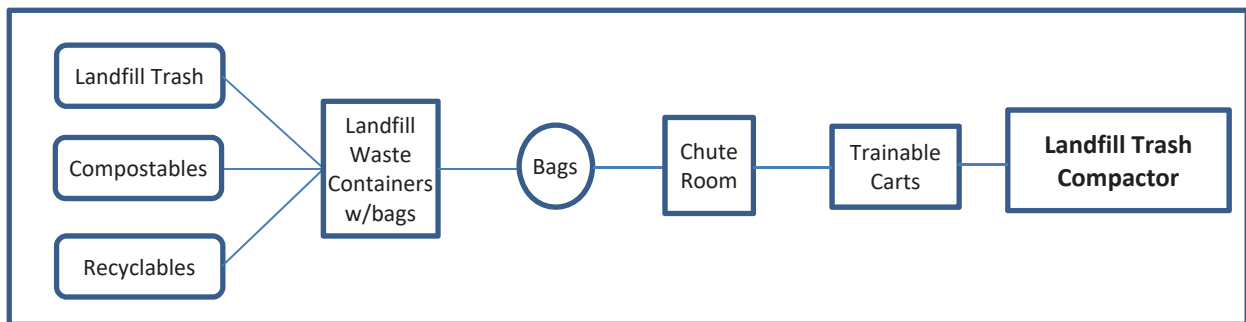
Training
Trial

Goals

To work out the logistics required to capture all of the compostable materials from the “back of house areas” within the terminal and transport it to TDS for composting.

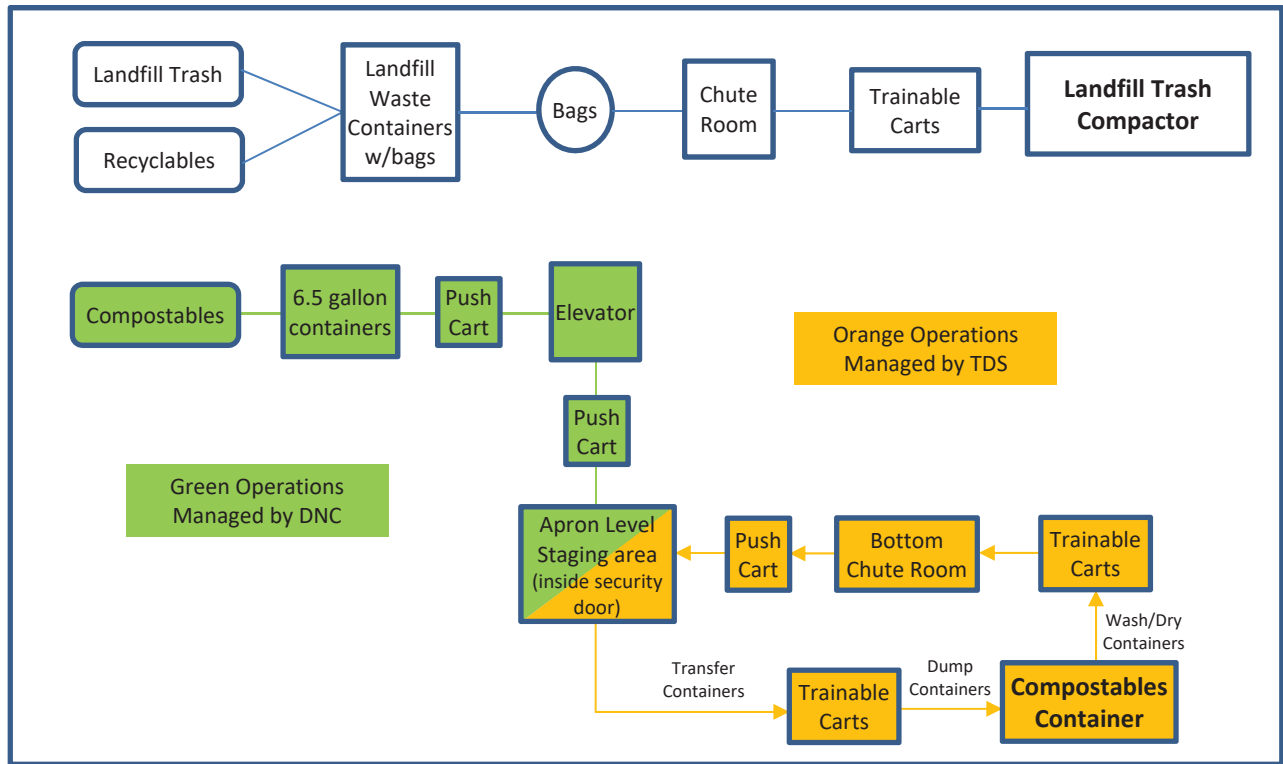
Current Back of House Waste Operations:

Currently all waste (landfill trash, recyclables and compostables) from the back of house areas is not separated. It’s collected together as landfill trash. We are working to implement recycling using existing containers but are awaiting blue bags to make sure recyclables and landfill trash can be easily separated and managed. The bags are transported and deposited in the landfill trash chutes located in the east and west chute rooms throughout the day by concessionaire personnel (DNC, Paradies, etc.). The bags fall down the chute to the landfill trash trainable carts and are ultimately transported to, and deposited in, the landfill trash compactor by TDS personnel.



Composting Trial Operations

During the composting trial concessionaire personnel will separate compostable wastes from the trash / recycling wastes. The compostable waste will be placed in 6.5 gallon square organics containers with lids (provided by the COA). These will be kept in key locations throughout the back of house areas where food wastes are created. Twice a day at a specified time (or as required) DNC personnel will take the cart from the chute rooms and pick up the organics containers from their locations and transport the cart with containers down the elevator to the security door leading to the apron level. TDS personnel will then pick up the cart and transport it through the security door to the tug tunnel area and transfer the organics containers to a trainable cart. TDS personnel will then replace clean containers (staged in the bottom chute room) on the cart and place it back inside the security door for DNC personnel to take back up the elevator and back to the restaurant areas. If the time changes, DNC personnel will contact the onsite TDS Lead by cell phone () so they are aware the containers have been brought down the elevator. TDS will transport the containers to the compost container located in the compactor area, where they will dump the containers and rinse them out and place them upside down to dry. After drying they will be returned to the bottom chute room for staging.



Compostable waste will be separated and collected from the start of operations (approximately 4:00 am) on Monday January 16th and continue until end of operations on Friday January 20th (approximately 9:00 pm). The compostables container will be serviced and weighed by TDS on Friday of that week with weights being sent to B.J. Carpenter ASAP.



ABIA Terminal Waste Diversion

ABIA Terminal Waste Diversion Projects

- Terminal Waste Sort
- Terminal Composting Trial
- Back of House Restaurant Recycling
- Terminal Liquid Collection Station Trial
- Terminal Concessionaire Food Rescue Program



Terminal Waste Sort



Austin-Bergstrom
International Airport

Terminal Waste Sort

Sort:

- **3.80 Tons of waste** (November 18, 2016 - 4:00am to 9:00 pm)
- **Separated by bag color**
 - Green Bags from “Back of House / Restaurant Areas
 - Clear Bags from “Front of House / Public Areas”



Terminal Waste Sort

After separating by bag color we sorted each pile into the following 5 categories:

- Landfill Trash
- Recyclables
- Compostables
- Other
- **Bottles w/liquids**



Waste Sort Results

Lessons Learned – Diversion Opportunities

Diversion Opportunities		Lbs. / Day	Tons / Year
“Back of House” Restaurant Areas	Compostables	331	60
	Recyclables	245	45
“Front of House” Public Areas		344	63
Total		920	168



Composting Trial



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Composting Trial Results

Trial

- Trial - January 16th - 20th, 2017
- 1,740 lbs. compostable material collected
- 348 lbs. per day average (**exceeded expected 331 lbs./day**)
- Trial only included DNC facilities

Takeaways:

- Estimate full implementation of composting will divert 400 lbs./ day average or 73 tons/year from the landfill for beneficial use



Composting Program

Month 1 Results

Implementation

- 3/6/2017 - “Back of House” composting implemented
- March (partial month) – 1.5 tons

Next Steps

- Audits
- Training
- Competitions



“Back of House” Restaurant Area Recycling



“Back of House” Restaurant Area

Recycling

Diversion Opportunity:

- 245 lbs./day of recyclable material
- Approximately 45 tons/year

Implementation Steps:

- DNC initiated blue bags 3/27/2017
- ARR to supply “Recycling” stickers for containers and signage for kitchen areas.
- ARR waste audit - 4/18/2017



Liquid Collection Station Trial



Austin-Bergstrom
International Airport

Liquid Collection Station Trial

“Front of House” Public Areas

Diversion Opportunity:

- 344 lbs./day of bottles with liquids
- 63 tons/year

Trial Location: Security Checkpoint #1

Implementation Steps:

- Procure Station - 3/9/2017
- Install Artwork on Station - 4/14/2017
- PIO Rollout - Week of 4/17/2017
- Deploy Station - 4/21/2017



Liquid Collection Station Trial

Benefits:

- Reduce weight of waste containers
- Fewer injuries
- Save staff time
- Increasing diversion rates

Other airports w/liquid collection stations:

- Portland
- Chicago O'Hare
- Dayton Ohio
- Oakland
- San Francisco
- DFW



Austin-Bergstrom
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Food Rescue Program



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Food Rescue Program

Working with concessionaires and Keep Austin Fed to set up a terminal food rescue program.

Goal: Prevent surplus food from being thrown in the trash

Implementation:

- Donated refrigerator (Paradies)
- Logistical challenges
- Program kicked off 3/1/2017
- Track Donations
- Explore other possible participants



Austin-Bergstrom
International Airport

Food Rescue Program

Building successful partnerships to create a sustainable program

March Stats:

- 2054 Sandwich Buns
- 1057 Sandwiches
- 415 Salads
- 312 Snack Boxes
- 141 Units/Day (Average)



Austin-Bergstrom
International Airport

Food Rescue Program

Community Impact

Recipients:

- Foundation Communities
 - Skyline Terrace
 - Arbor Terrace
 - Bluebonnet Studios
- RBJ Center

“One woman was particularly stoked about the hummus trays, and took 3 of them (and an undisclosed number of cookies) back to her apartment. Cookies aside, allowing this woman with both mental and physical disabilities access to a healthy food option is a blessing.”

“A veteran was happy to see the tuna fish sandwiches because he just recently had some tooth surgery and is restricted to eating “soft” foods for now.”



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International Airport

Diversion Program Summary



Austin-Bergstrom
International Airport

Waste Diversion Project Summary

Next Step	Potential Impact
Implement Restaurant “Back of House” recycling program	44 tons/yr. diverted
Conduct Restaurant “Back of House” Composting Trial	73 tons/yr. diverted
Implement Restaurant “Back of House” Composting Program	
Conduct trial for liquid collection stations	63 tons/yr. diverted
Food Rescue	141 Units/Day
Deployed Waste & Recycling Compactor Sorts	TBD



2017 Focus & Execution Plan

Environmental Stewardship

GOALS, OBJECTIVES, AND STRATEGIES

Austin-Bergstrom International Airport has recognized its responsibility to the environment and taken actions to continually enhance and promote its environmental program accomplishments and be recognized as a leader in airport environmental stewardship.



GOAL 1 Minimize our environmental Impact

Objective 1- Reduce waste generation and enhance recycling.

- Strategy (1) Conduct a terminal waste audit.
- Strategy (2) Pilot a terminal composting program.



Objective 2 - Reduce emissions and carbon footprint.

- Strategy (1) Apply for ACI Airport Carbon Accreditation Level 2.

Objective 3 - Continue to promote ABIA environmental program and accomplishments.

- Strategy (1) Continue to enhance the ABIA Sustainability Report.



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International Airport

Questions?

- Terminal Waste Sort
- Terminal Composting Trial
- Back of House Restaurant Recycling
- Terminal Liquid Collection Station Trial
- Terminal Concessionaire Food Rescue Program



November 18, 2016 Waste Sort

Goals:

1. To determine the quantity and content of landfill waste coming from the terminal.
2. To segregate and evaluate the “back of house” waste coming from the restaurant kitchen areas to prepare for the initiation of recycling and composting programs in these areas.

Sort:

- **3.80 Tons of waste** was collected from the Terminal (4:00am to 9:00 pm November 17th) separated by bag color, (green bags from “back of house, clear bags from rest of terminal) and sorted. Deplaned waste was not included.



- Waste sorted into the following 5 categories: Trash, Recyclables, Compostables, Other, and Drink Bottles with Liquid (which if emptied would be recyclable)



Landfill Trash



Recyclables



Compostables



Other

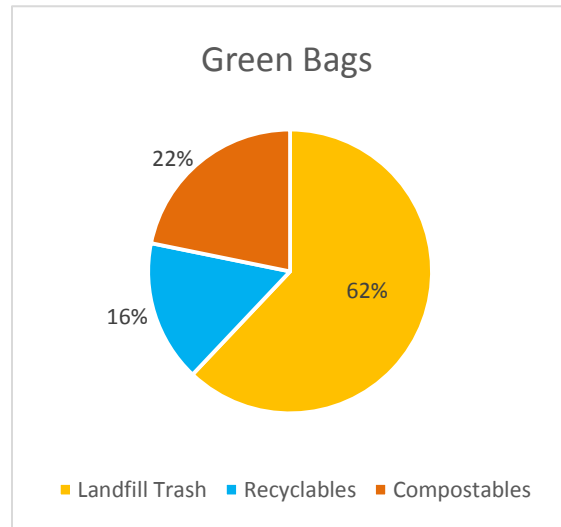


Bottles w/liquids

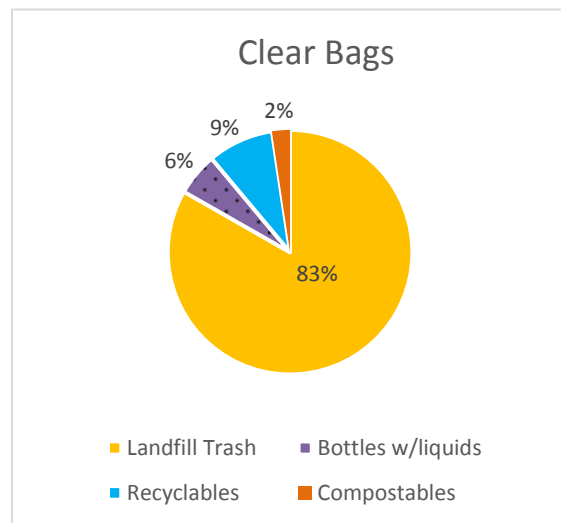
Sort Results (does not include deplaned waste):

Terminal Waste #'s	FY 2016 Daily Avg (tons)	% Total Terminal Waste
1 day avg. terminal waste (including deplaned) – <i>calculated using FY2016 data</i>	5.7	100%
1 day's terminal waste (no deplaned) - <i>added weights measured during sort</i>	3.80	67%
Deplaned Landfill Waste – <i>calculated using above numbers</i>	1.88	33%

Green Bags (Back of House) <i>(Not including deplaned waste)</i>		
Total (lbs.)	1,520	
% of Terminal Waste	20%	
Category	Weight Lbs	%
Landfill Trash	942	62%
Recyclables	245	16%
Compostables	331	22%



Clear Bags (All other Terminal Areas) <i>(Not including deplaned waste)</i>		
Total (lbs.)	6,079	
% of Terminal Waste	80%	
Category	Weight Lbs	%
Landfill Trash	5061	83%
Bottles w/liquids	344	6%
Recyclables	529	9%
Compostables	145	2%
Other	0	0%



Next Steps:

Next Step	Required Resources			Timeline
	Internal	External	Fiscal	
Implement "Back of House" recycling program	Coordination w/ vendors,	ARR – providing stickers	None	ASAP
	Training	Vendors - engagement		
Conduct "Back of House" composting trial	Coordination w/ vendors on logistics	TDS – provide support, carts & training	?	January 8-21, 2016
		Vendors – engagement	?	
		Aviation Dept – supply initial containers	?	
Implement "Back of House" Composting	Coordination w/ vendors on logistics	Vendors - engagement	Depends on logistics	ASAP following trial
Conduct trial for liquid collection stations	Coordination w/TDS, container manufacturer, and Facilities	Manufacture containers	Quote 1: \$6,000 per container	February 2016
Perform audit/sort of deplaned waste	Coordination w/TDS	TDS – provide support, containers	\$2,292.07 in TDS contract	February 2016

Takeaways:

FY 2017 Gain Sharing Goals (Diversion Rates)		FY2016 Diversion Rate	October 2016 Diversion Rate
Goal	Payout	25%	21%
25%-30%	\$200		
31% or greater	\$350		

Implementation	Material	Source Area	tons/yr	% Terminal Waste	Pathway to achieve goals
N/A	Landfill Waste	Terminal	2,052	100%	N/A
Short Term	Recyclables	Back of House	44	2%	Recycling Program
	Compostables	Back of House	60	3%	Composting Program
	Liquid Waste	Front of House	62	3%	Liquid Collection Stations
			Total	8%	
Longer Term	Recyclables	Front of house	95	5%	Improved education, signage & container labeling; customer service assistance; manned central waste stations
	Compostables	Front of House	26	1%	
			Total	6%	
			166	14%	
			Diversion Potential		

Benchmarking Airports (Don't remember which ones they were....please add and I'll get numbers)