

Appendix 19 San Diego County Regional Airport Authority San Diego International Airport  
Case Example

## **Appendix 19**

### **San Diego County Regional Airport Authority**

#### **San Diego International Airport (SAN)**

San Diego, California

In alignment with the City of San Diego's Zero Waste Plan, the San Diego County Regional Airport Authority is dedicated to managing materials discarded at San Diego International Airport (SAN) as opportunities for reuse and conserving resources through waste prevention, recycling, composting, and other strategies. In keeping with this approach, SAN has implemented centralized waste reduction, reuse, recycling, and composting programs for employees, passengers, and tenants. SAN is required to provide recycling and related education under the City of San Diego's Recycling Ordinance as well as the State of California's commercial organics and single stream recycling mandates outlined in Assembly Bill 1826 and Assembly Bill 341.

The Authority's Planning & Environmental Affairs and Terminals & Tenants departments administer the waste and recycling hauling contracts and monitor the status of related activities; Terminals & Tenants funds waste management in the department's operating budget. The Planning & Environmental Affairs Department is responsible for implementing strategies and measuring and tracking waste metrics. Private waste and recycling hauling companies collect waste materials from the facility; janitorial and logistics services are provided by third-party contractors. Engagement from these key stakeholders plays an important role in SAN's program. Authority staff meet with the waste hauling contractor monthly, and the contractor provides monthly reports on the quantity of materials generated, recycled, composted, and landfilled. Authority staff also meet with the janitorial contractor on a weekly basis; representatives from the janitorial contractor also attend regular meetings with Airline and Transportation Security Administration personnel. Authority staff emphasize the role that the commitment and support of these stakeholders has played in the success of the SAN's waste management program and strategies.

The Airport Waste Reduction Team aids in the coordination and guidance of SAN's program. The Team meets quarterly and is comprised of representatives from a variety of stakeholders, including Authority departments, Republic Services (waste hauling contractor), Flagship Airport Services (janitorial services contractor), and the San Diego Airlines Consortium (SANCO). The team strives to increase communication and collaboration, identify new opportunities, improve the program, and share best practices. The Authority is preparing to draft an Airport Zero Waste Plan in alignment with the City of San Diego's waste reduction targets (75% by 2020, 90% by 2035, and 100% by 2040); the Waste Reduction Team will implement this Plan.

To track program progress and identify opportunities for improvement, SAN has completed waste stream composition studies, user surveys, facility audits, and waste management reports. During the recent annual waste characterization audit, Authority staff followed a load of recyclables from SAN to the recycling processing facility to learn more about its contents and the various recycling sorting challenges.

The Authority operates a centralized waste and recycling facility which houses a cardboard baler, one solar-hybrid powered trash compactor, one tipper trash compactor, one solar-hybrid powered recycling compactor, one tipper recycling compactor, one custom food waste compactor, a container for wood and pallets, a container for metals, and twenty-five towable carts for use with the tipper compactors. Additionally, SAN has other compactor areas throughout the Airport that are conveniently located for tenants to use. SAN also operates a baler for plastic film.

There are many examples at SAN for reuse and diverting materials from the landfill. Unclaimed items from SAN's Lost and Found are donated or auctioned. Wood pallets are reused and recycled by Bradford Airport Logistics, diverting approximately 160 tons annually. Ninety-nine percent of construction and demolition waste is diverted; SAN has a new construction policy to divert 90% of inert materials and 75% of the total project waste from at least four material streams, by weight. Approximately 20 tons of green waste from Airport activities is diverted annually. Bradford Airport Logistics' grease collection program has redirected over 17,000 gallons of kitchen grease and other by-products for use as bio-diesel in the company's vehicles. SAN recycles paint (more than 450 gallons per year) through Amazon Paint Recycling. In 2017, The Airport collected an estimated 99,235 gallons of condensate water from the fifteen air conditioning units installed under passenger boarding bridges. The condensate was reused on site for non-potable water to fill the janitorial power washers, flush wash stations, and for dust control during the demolition phase of specific construction projects.

The Authority works to reduce waste generated by its operations. Office supplies and furnishings are reused where possible. Reusable dishware is provided in select Authority employee breakrooms. Authority employees utilize electronic communication before using paper products and printer toner. Every department in the Authority uses an Enterprise Content Management System for file storage and sharing. The Authority's office printers default to black and white printing to decrease ink usage; the Authority collects and recycles toner cartridges. In 2016, the Authority reduced the amount of paper used by 12 percent; most of paper used by the Authority contains 30% recycled content. The Authority has an environmentally preferred purchasing policy, referred to as "EP3," for its operations. This policy prioritizes reusable, recycled content, recyclable, sustainably sourced, and packaged in bulk supplies and materials.

Authority employees have access to commingled recycling, including deskside recycling bins and smaller waste bins. The recycling bins are not lined (garbage bags are not used in these containers). Information about waste management is communicated to employees during on-boarding/new employee training, recurring training, Sustainability Fairs, Lunch & Learns, and in the form of emails, monthly newsletters, container labels, signage, and social media.

SAN's lease agreements with tenants outline waste management requirements. Costs associated with waste and recycling are included in the tenants' lease rates. Tenants can score points on the San Diego Airport's SAN Green Concessions Program checklist for adopting the Authority's environmentally preferred purchasing policy. Tenants receive instructions and other waste management information during training, Sustainability Fairs, and monthly meetings, as well as from the SAN Green Concessions Program, container labels, signage, SAN's website, and social media. Authority staff attend a monthly All Concessions Meeting and participate in discussions about tenants' participation in the program. These discussions represent a two-way feedback loop which drives improvement of the program.

Concessionaires can participate in the SAN Green Concessions Program. This program was developed by SAN specifically for the facility; it incorporates some elements from California Bay Area green business programs, the Port of San Diego's Green Port Program, and the City of Chula Vista CLEAN Business Program; staff also consulted with the Chicago Department of Aviation on this effort. SAN sought the input of major concession tenants on the initial concepts and to incorporate their feedback into the final program. The program is an opt-in awards and recognition program designed to amplify the sustainability efforts of the tenants. The program provides resources for tenants, provides a forum for recognition and education, and creates an environment of positive competition. The program was launched in June of 2017 and, at the time of this writing, 37% of tenants are certified, including eight out of twelve of the concessionaire companies.

SAN's Food Recovery Program began with one food and beverage operator collecting coffee grounds and fruit for composting at the City of San Diego's Miramar Greenery Composting Facility. This pilot effort helped identify the limitations and address initial challenges of such a program. The program was then expanded to 41 food and beverage locations, and all pre-consumer food waste generated from these operations – an advancement made possible by collaboration between the Airport Authority, the restaurants, the City of San Diego, Flagship Airport Services (janitorial contractor), and Republic Services (waste hauling contractor). The next stage of growth included three meal prep kitchens, SAN's United Service Organizations (USO) facility, and three of the Authority's employee breakrooms. SAN's composting program was recently expanded to include post-consumer food waste from all seven sit down restaurants. All food waste compost must meet the receiving facility's requirement of less than one percent contamination. Thanks to these programs, composting food waste has become the norm at SAN.

The Airport recently initiated a program to donate edible food items in order to reduce the amount of food waste generated at the facility. A team from the Authority worked with SAN's six largest concessionaires; Bradford Airport Logistics (logistics contractor); Flagship Services (janitorial contractor); the San Diego Rescue Mission; Feeding San Diego; and other non-profit organizations to donate food for meals. The Authority purchased and provided donation bins for the program, and Authority staff also provided education on the legal protections for organizations that donate food. Food for donation is collected by the logistics contractor during the delivery routes to concessions; this service, as well as tracking of the collection, is provided by the contractor in the same manner as other shipping and receiving. The non-profit organizations provide documentation of the donations for tax purposes.

The food donation program was recently expanded to redirect food from a food and beverage tenant with ten operations in the terminal for meals at the United Service Organizations (USO) Neil Ash Airport Center, which acts as a waiting area for military personnel and their families. Food donation at the USO also includes food redirected from Authority corporate events, and represents a closed loop system. The Authority was recently recognized with an award from the San Diego Food System Alliance for its efforts to address wasted food.

Some of the airlines operating at SAN participate in the facility's recycling program, including recycling materials from deplaned waste. Food and beverage and retail concessions tenants recycle through the SAN's program as well. Waste and recyclables generated at SAN's Aircraft Rescue and Fire Fighting, cargo, and USO facilities are also managed through SAN's program.

Passengers traveling through SAN's terminals use recycling stations, taking advantage of the Airport's one-to-one bin pairing, and receive information about recycling from container labels, signage, social media, and SAN's website. Passengers also have access to liquid dumping stations at every security checkpoint. These stations consist of wheeled carts; they are serviced (emptied to the sanitary sewer system) by the janitorial contractor three times each day.

Updates regarding the progress of SAN's program are reported internally through an annual waste report as well as a sustainability report which adheres to the international standards of the Global Reporting Initiative framework. External communication about the program is shared via public press releases and the sustainability report. The Authority recently applied for a City of San Diego Environmental Services Department 2017 Waste Reduction and Recycling Award; the Authority's application is included at the end of this case example and contains detailed information, photographs, and example documents from the program.

In addition to the upcoming Airport Zero Waste Plan, the Authority is planning to continue janitorial staff training; increase concessionaire and airline use of cardboard balers; collaborate with the Transportation Security Administration regarding liquids, toiletries, and other items generated at the security checkpoints; and provide education for staff and passengers on liquid collection units. SAN is also exploring opportunities to donate food items collected at the security checkpoints and to improve janitorial and waste hauling contracts, for example, by requiring waste audits and notifications of rejected loads.



# 2017 Waste Reduction & Recycling Awards Application

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San Diego County Regional Airport Authority

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## **1. Describe your organization and its efforts to reduce the amount of waste it generates.**

### **Program Improvements:**

San Diego County Regional Airport Authority (Authority) is the managing body of the San Diego International Airport (Airport or SAN). The Airport is a dynamic environment with many operators and many waste streams. In 2017 new sustainability initiatives and plans were added to an established portfolio of environmental programs that include waste reduction in many different forms.

With the hustle and bustle of serving more than 22 million travelers in 2017 and over 5,000 employees, it is important to have sufficient and efficient infrastructure to handle the many waste streams from passengers, vendors, and employees. With the high volume of passengers filtering into and out of the airport, there is a large amount of waste accumulated on a daily basis. A growing number of passengers each year also means we must build upon the waste management program- embracing efficiency, innovation, technology, and creativity.

New initiatives implemented in 2017 include a complete audit of waste bins in all public-facing and tenant spaces; installation of new signage on all breakroom bins throughout the Airport and the Authority administration spaces; passenger holding room seating replacement and diversion; and Airport Authority zero waste events.

Research has shown one-to-one bin pairing and convenient placement of disposal containers reduces the risk for contamination and increases diversion or recycling rates. In the summer of 2017, members of the Authority conducted bin audits in the terminals, identifying the locations and types of bins. The bin locations were identified at the curbside area, pre-security areas, and post-security areas for both terminals. Data from this audit helped identify if bins needed to be added, removed, or relocated in order to maximize one-to-one bin pairing and improve the passenger experience. Maximizing the efficiency of bin placement and ensuring one-to-one bin pairing will help to increase waste diversion and make it easier for passengers to recycle.

The bin audit showed that about 68% of bins are currently paired with a recycling bin and a waste bin next to each other. Visual audits of the bins themselves were also observed during the walkthroughs and indicated that there is fairly low contamination in both trash and recycling bins. However, there is room for improvement in terms of adding recycling bins throughout the terminals, removing bins where there are too many in one location to create more space for passengers, and reducing consumption of resources like bin liners and staff time. Findings from the audit were shared with the Authority's Terminals and Tenants team with the expectation to increase pairing and efficiency.

Bin audits also took place behind the scenes in tenant spaces including breakrooms, offices, and concession spaces. New signage was placed in all of these locations to serve as educational reminders for employees and to update them on new items allowed in the recycling stream. On July 1<sup>st</sup>, the City of

San Diego and the Airport began recycling Styrofoam and Tetrapack cartons. Following this change, over 600 landfill, recycling, and compost signs were placed in Airport tenant and Authority spaces. These signs were designed to be more aesthetically pleasing, easier to understand, and included the new items. The installation of these news signs also allowed Authority members to train new employees and retrain current employees on what goes where for waste diversion. In alignment with the sign launch, members of the Planning and Environmental Affairs team embarked on a “What Goes Where” presentation roadshow—training employees at reoccurring meetings and events. More than 300 employees received first-hand training on proper waste disposal and diversion, and some of those attendees used the information to train their own staff.

The Authority is constantly improving and upgrading infrastructure to ensure a comfortable, modern, and pleasant experience for the passengers. Diversion is also important to remember when implementing construction and renovation projects. One renovation that kept sustainability in mind is the replacement of seats in the Terminal 1 gate holding areas. More than 2,800 seats were removed and replaced with updated seats and furniture that include power plugs for passengers to charge on the go. Coordinating with the contractor, the Authority was able to divert from the landfill the outdated seats by either reusing or recycling them. The Airport Authority is also in the midst of two large Capital Improvement Projects to build a new Federal Inspection Security (FIS) facility and a Terminal 2 Parking Plaza. During the construction phase the Authority, in partnership with the many contractors, was able to divert 96% of the Construction and Demolition (C&D) waste. Improvement projects like these demonstrate that the Authority is looking at all aspects of waste diversion to keep usable items out of the landfill.

In 2017, the Authority continued to implement the Food Waste Collection and Food Recovery Programs. Non-edible food waste represented 28% of the waste diversion total in 2017, not including C&D waste. This food waste was collected with the help of the janitorial service, Flagship, and sent to the City of San Diego’s Miramar Greenery Composting program. Also related, the Authority began composting food waste at Authority events for the first time—embracing a closed-loop strategy. At the Authority’s bi-annual Sustainability Fair, the annual employee appreciation luncheon, AIREX (an airport-wide emergency exercise that takes place once every three years), and the end of the year holiday party, guests could compost their food waste and keep it out of landfills. Collectively, over 100 pounds were diverted from these events. Additionally, reusable dishware and cutlery were used whenever possible. If reusable dishware was not possible, the Authority ensured that the disposable products were recyclable or made from post-consumer recycled material. At each of these events compost bins were present, with representatives staffing each waste station to help participants properly sort their food waste. Edible food recovered through the Food Donation Program was sent to the Airport’s United Services Organization (USO) or other local off-site non-profit organizations for food donations, including food from concessions, prep kitchens, and Authority breakrooms. These efforts reinforce the commitment to zero waste and waste diversion while educating the participants by engaging them one-on-one.

A few other noteworthy, new initiatives that began in 2017 are highlighted below.

### **Authority Surplus Furniture Reuse**

The Authority has been mindful of reusing furniture for many years and 2017 was no exception. In June the West Wing office area was taken offline. The West Wing was a temporary trailer office space housing various departments to accommodate growth while the Authority went through reorganization. The Authority repurposed approximately 75-80% of cubicle parts and 90% of office furniture before removing the structure from campus.

### **Signage**

Signage around the Airport is crucial to promoting messages and educating passengers and employees. In addition to the 600 back-of-house waste signs that were deployed, various signs installed around the campus in 2017 include: twenty “No Idling” signs in the Cell Phone lot (a free parking lot where drivers can wait for their passenger to arrive) and Transportation Network Companies (TNC) parking lots, fourteen signs promoting the Airport’s carbon offsetting program (The Good Traveler) pre- and post-security in the terminals, and five signs with instructions and regulations on the 90-Day Storage Facility. These signs promote sustainable behaviors that create a safe and healthy environment for both passengers and employees.

### **SAN Green Concessions Program**

The SAN Green Concessions Program launched in June 2017. This voluntary rewards and recognition program celebrates food & beverage concessions and retail concessions on green practices, and works with them to implement more sustainable business procedures. Since the program launch, 25 concessions have been certified, equaling 28% of total concessions at the Airport. These certified SAN Green Concessions are leading the way by recycling, lowering energy and water consumption, using sustainable products, and educating their employees on greener business practices. The Authority provides educational opportunities, and sustainable resources, and marketing and promotional efforts for SAN Green Concessions.

### **Air Conditioning Condensate**

Expansion and innovation of our AC Condensate Collection Program continued in 2017. In mid-2014, the Authority began its Air Conditioning Condensate Recycling Program by placing 55-gallon drums at four gates to capture and reuse condensate dripping from air conditioning systems. This program has grown since its inception and now includes collection containers at sixteen gates, a 500 gallon water transport tank, and expansion of different uses for the salvaged water. There are now permanent 300 gallon tanks at three of the jet bridges in addition to the 55-gallon drums, and AC condensate is reused for the Airport’s janitorial wash stations, the vehicle wash bay, C&D dust mitigation, cleaning and general maintenance washing, and anchoring large event tents—reducing our water consumption.

One exciting development in the condensate capture project is the installation of sensors that monitor the water levels inside the collection containers. The program’s ultimate goal is to collect larger quantities of condensate in a more sophisticated collection system that includes real-time tracking. One

of the main challenges of the program in the past was that the barrels previously lacked volume sensors and could overflow if not pumped in time. To enhance the program and address this challenge, the Authority was awarded a grant to embark on a sensor project through The San Diego Foundation and CleanTECH San Diego, two leading nonprofits in the region. Through this grant, the Airport is installing real-time sensors at collection units to measure the volume, rate, and frequency of the condensate generation. The wireless sensors will enable the Authority to obtain a real-time, quantitative view of its condensate capture to assist in better matching available condensate to appropriate end users—which is a priority in the Water Stewardship Plan, a framework for rethinking how we manage our water resources while we prepare to accommodate passenger growth, new airport development, and a changing climate. The sensors will also create education and outreach opportunities with the possibility of displaying our capture amounts in terminals for passengers to view.

### **SAN Signs Airport Sustainability Declaration**

The Authority officially signed the ‘Airports Sustainability Declaration’ at the Airports Going Green Conference in Dallas on November 13<sup>th</sup>. This Declaration is aligned with the United Nations Sustainable Development Goals, reflecting seventeen total topic areas. The Declaration calls for airports to develop, implement, and expand initiatives that improve the sustainability and resilience of airports and their surrounding communities. To help achieve this outcome, the Declaration promotes four key principles – collaboration, transparency, innovation, and engagement – and encourages partnerships between airports on a worldwide scale. The Authority is already implementing a portfolio of policies and projects that support the Airports Sustainability Declaration and its main principles. This is another opportunity to plan and build an enduring and resilient, customer-focused enterprise by effectively managing the financial, social, and environmental risks.

### **Continuing Efforts:**

There are numerous ongoing elements of the Authority’s waste reduction management programs that form the backbone of our efforts. The programs and initiatives have not only been necessary to reduce waste output and increase recycling and reuse, but have also been crucial to the success of our sustainability initiatives – and establish the Airport’s role as an environmental steward in the San Diego community. Below is a list of the efforts in 2017 (listed alphabetically):

#### **Break Room Composting**

Since the program’s inception in 2013, the food waste diversion program has expanded within the Authority’s own office spaces. 2017 finalized inclusion of all Authority break room spaces and the Airport’s United Service Organizations (USO) Facility. The USO airport center at Lindbergh Field, open to active duty service members and their families, is the largest of its kind in the world, with an estimated 11,000 visitors per month. The USO provides a resting space, entertainment, and meals for these visitors proving to be a great additional space to capture food waste. For each of these spaces, food waste collection bins, signage, and employee/volunteer training were provided.

### **Central Recycling & Waste Disposal Facility**

The Authority's central recycling and waste disposal facility consolidates and streamlines all waste processing procedures at the Airport. This facility allows the Authority and the janitorial and waste service providers - Flagship and Republic Services – to be as efficient as possible while separating and collecting the trash, recyclables, and food waste. The facility contains the following equipment and features:

- Two (2) solar-hybrid-powered compactors that reduce electricity usage by 70% compared to traditional compactors. These compactors, one for trash and the other for recyclables, use photoelectric technologies to provide alerts when it is close to capacity, eliminating unnecessary hauling.
- Two (2) 35-cubic yard tipper compactors (one for trash and one for recyclables).
- One (1) 25-cubic yard customized food waste compactor to store all recycled food waste.
- One (1) cardboard baler that provides an easy and cost-effective solution for bundling and recycling the large volume of cardboard produced at the airport.
- One (1) 40- cubic yard container for wood and wooden pallets. This container is available for employees to reuse or recycle wooden pallets.
- One (1) 25-cubic yard container for metals.
- Twenty-five (25) 3-cubic yard towable carts designed for tipper compactors. These carts require less waste handling, reducing spills and the amount of trips needed to reach the disposal facility.
- Energy efficient LED lighting, improved safety features that allow for good housekeeping and control/disposal of wash water liquids, preventing storm water pollution.

### **Food Donations**

While the Authority focuses on capturing pre-consumer food waste throughout the terminals and restaurants at the airports, another method to reduce this waste stream is to catch any food that could be salvaged and donated to feed the community. In 2017 three more vendors- SSP, High Flying Foods, and Stellar- joined HMS Host and Paradies to donate thousands of meals that would have otherwise been disposed or composted. The total amount of edible food recovered and donated to the USO in 2017 was 54,105 pounds, more than six times the amount from 2016.

Based on the U.S. Department of Agriculture's estimate that the average meal weighs 1.2 pounds, that equates to over 4,000 meals that food and beverage concessionaires have donated to the USO and the San Diego Rescue Mission. Additionally, food and other items were donated to the USO during the "Spirit of Giving" campaign that occurred during the holiday season. Over 24,000 care packages were donated and 170 meals were provided to service members during December.

### **Food Waste Diversion Program**

The Authority's Food Waste Collection Program began in 2013, quickly growing into the successful and expansive program it is today. Without the help of the Authority's janitorial and waste service providers, this collaboration with the City of San Diego for food scrap collection would not be possible. Various

Airport departments collaborated with the City of San Diego to launch a new pilot project expanding the award-winning Food Waste Collection Program to include post-consumer food scraps. A pilot project that focused on collecting post-consumer food waste at all seven Airport wait-service restaurants included Authority staff, participating concessions, Flagship janitorial services and the City of San Diego. The project also implemented new training to educate wait staff and to validate strict post-consumer food waste contamination avoidance requirements (i.e. no mixing of trash and recyclables with food waste). In 2017 the Food Waste Diversion Program redirected a total of 396 tons of food waste from the landfill. This successful program was recognized in November 2017 by the Environmental Protection Agency for innovation in food recovery and diversion. SAN is the first airport to receive such recognition.

### **Grease Collection Program**

The Authority continued its efforts with Bradford Airport Logistics, manager of the Airport's Receiving and Distribution Center (RDC), to capture and recycle a source of waste that is seldom discussed. Grease and waste vegetable oil from cooking operations in the Airport is collected by Dar Pro Solutions and is converted to biofuel, which is then utilized in two of Bradford's trucks used around the airport campus. The other grill by-products, such as, grill scrapings and chicken and bacon fat are processed by Dar Pro Solutions to produce fertilizer and animal feed, and a small portion of the waste vegetable oil becomes sheet metal stamping oil. This program is a great example of how the Authority has been able to efficiently collaborate with an Airport operator to find useful means for what would otherwise be waste, and also utilize this waste in ways that reduces emissions due to alternative fuel usage. In 2017, the Authority was able to collect and recycle 13,731 gallons of grease and 3,640 gallons of by-product from airport services.

### **Hazardous Waste Storage Facility**

The Airport hazardous waste storage unit (90-day storage facility) increases safety for the handling and storage of waste prior to disposal. In 2017, five signs were installed that identify the building, its main use, and how to properly store hazardous waste. The 90-day storage facility also increases security and reduces the liabilities associated with accidental discharge, fire, explosion, vapor/fume emissions, and other potential issues related to code compliance. Fire alarm transmission verification and dry chemical fire suppression systems, along with an eye wash station, are included in the pre-fab, modular structure that can be relocated at any time to another area that has a flat pad and power.

### **Integrated Pest Management (IPM)**

The Airport's Integrated Pest Management (IPM) program is a systematic course of action to prevent and manage pests effectively while finding the most economical method with the least impact on people and the environment. In an IPM program, pesticides are used only as a last resort, while non-toxic materials are utilized first to help protect water and air quality and to support human and environmental health. The Authority continues to work collaboratively with business partners to uphold IPM standards and maintain a "culture of cleanliness." The Authority also continues to align the IPM program with other policies and programs at the Airport.

## **Janitorial Services**

Flagship Services, the janitorial services provider at San Diego International Airport since 1997, is a vital component of every waste diversion initiative. In 2017, Flagship received the Emie Award from the San Diego Food System Alliance for their continued efforts for food diversion. Throughout the partnership with Flagship, they have proven to be dedicated stewards to the environment and the public by providing the most environmentally-friendly services possible and recommending any improvements or additions to our waste diversion practices. In the past, Flagship advised that we limit the length of automatic paper towel dispensers in all airport restrooms. This resulted in a reduction in paper towel waste that would take up space in a landfill, as well as encouraging passengers to use and waste less paper for hand drying. Flagship also helps to keep the ramps clean and maintain the bins, keeping the airfield much cleaner and preventing debris from entering storm drains.

In 2017, 76% of all cleaning supplies and products used by Flagship were green or LEED certified. Flagship complies with Green Cleaning and LEED Certification processes in selecting equipment and products as opposed to traditional janitorial supplies and services, which can have a negative effect on human and environmental health. By utilizing the greenest products available, Flagship is able to avoid the use of volatile organic compounds and other harmful toxins in the cleaning process to maintain indoor air quality expected of the Airport by the community. Flagship employees have been trained and successfully certified for the Cleaning Industry Training Standard (CITS). The training focuses on green cleaning and products, along with the appropriate cleaning methods of all objects to ensure sanitation and uphold air quality.

## **Miscellaneous Diversion**

In 2017, the Authority began collecting data on unique items that were diverted from the landfill. These items have been processed and recycled before, but this new effort to collect the information is a reminder that the Authority is committed to keeping recyclable items out of the landfill and diverting whenever possible. The following are some examples of these unique items:

- Walk off mats- more than 2,000 square feet of mats were replaced in the terminals in June of 2017. These mats were recycled via the contractor and thus diverted from the landfill.
- Badges- in May of 2017, there was an Airport-wide badge renewal that required all current and expired Airport badges to be turned in for deactivation in order for new badges to be reissued. Over 7,000 badges were turned in for shredding and were then recycled.
- Lost and Found- many items are left throughout the airport each year and are turned in to the Lost and Found office. Unfortunately, many of those items are not claimed and need to be disposed of after a certain holding period. In 2017, more than 12,000 items from lost and found were returned to the owner or donated, accounting for a 54% diversion rate at the time this report was written. The Authority holds onto these items for 90 days, so a final diversion rate won't be ready until Q2 of 2018 since there are still almost 4,000 items still in holding. In 2016 only 14% of items went to the landfill while the other items were either recycled or donated. The final 2017 diversion rate is expected to be a similar to 2016.



### **Office Paper & Toner Use Reduction**

The Authority's corporate culture supports electronic communication in every format before using paper products and toner.

- The Authority is conscious of paper and printer usage, and provides employees online tools to utilize and share documents and files.
- Every department in the Authority uses a file-saving and sharing system, Enterprise Content Management System (ECMS), which stores records and information in a centralized location for more effective sharing and collaboration within and across departments.
- All printers are defaulted to black and white to decrease unnecessary or accidental color ink usage. The Authority collected and recycled all of the toner cartridges used throughout 2017, equating to approximately 186 pounds.
- During 2017, 3,763 reams of 30% recycled content paper were used Authority-wide (a 10% decrease of overall paper use from 2016).

### **Office Space Recycling**

Every desk at the Authority has a desk-side recycling bin with a hanging trash bin that is one-fifth the size of the recycling bin. The use of liners in the recycling bins was discontinued, the smaller trash bins are marked "Waste Only!" and the bins are only serviced once a week. This has proven effective in encouraging employees to be conscious and mindful of the amount of waste they produce, limiting landfill waste and increasing the potential for items to be recycled. The Airport's janitorial service provider, Flagship, has been a crucial partner in developing and maintaining the office space recycling.

### **Universal Waste & Electronic Waste Collection Programs**

The Authority continues to provide a Universal Waste Collection Program to all employees, allowing for an environmentally safe way to dispose of any universal waste (e.g., batteries and waste lamps) through 12 drop off locations with instructions and signage. In 2017, the Authority hosted two airport-wide universal waste collection events which were open to all 7,000+ people that work at the airport, including Airport Authority employees. The collection events were incorporated into our "Rethink. Reduce, Reuse, Recycle" Sustainability Fairs that give all employees the option to recycle electronic and universal waste, donate household items to Goodwill, purchase LED energy-saving light bulbs and learn about water conservation. The two collection events yielded more than 10 tons of universal and electronic waste from tenants, airport employees, and Authority employees. Continued participation at these fairs included collaborations with our partner agencies to educate employees on energy and water conservation, and other sustainability initiatives through tabling.

Authority internal excess equipment is also diverted by donating items to the San Diego Futures Foundation, a local nonprofit organization that makes information technology available to underserved population. In 2017, the Authority collected over 3 tons of computer equipment and in early 2018, donated the equipment to this organization.

## Sustainability Initiatives:

In 2008, the Authority cemented its commitment to environmental stewardship and responsibility with its Sustainability Policy and in 2017 we continued our efforts by signing the Airports Going Green Sustainability Declaration. The Authority shares the public's expectation that airport operations and programs will always make changes and look for improvements to minimize wastefulness in every aspect of our daily activities. Every decision that is made, whether it relates to waste diversion or not, must adhere to the Authority's accepted policy on sustainability, which enables the Airport to grow and operate in a way that reduces the use of resources. In order to uphold this guarantee to the community, the Authority focuses directly on reducing waste output, and energy and resource conservation. According to a survey taken by Authority employees in 2015, 89% of employees believe that sustainability is important for the organizations long-term success. Highlighted below are the Authority's continuous efforts to uphold this policy, while focusing on serving as a sustainable and innovative representative of San Diego. To learn more about sustainable initiatives, please visit the Environmental Affairs website at [www.san.org/green](http://www.san.org/green) or our Sustainability Report at [www.Sustain.san.org](http://www.Sustain.san.org).

The following sustainability initiatives are ordered alphabetically.

### California Least Tern (CLT) Nesting Season

Airport staff works with biologists from the San Diego Zoological Society to actively monitor the California Least Tern (CLT) nesting areas. During the 2017 season there were 24 nests documented. Weekly CLT nest monitoring along with banding hatched chicks and deterring predators help boost survival rates for the endangered bird species on the Airport property.

### Clean Transportation Program

The Authority upholds its commitment to clean transportation through providing incentives for employees, providing alternatively fueled vehicle options for passengers, and constantly working to grow the Authority's green fleet. Below are the different programs and efforts that took place in 2017.

#### **Alternative Commute Reimbursement Program**

As part of the Authority's desire for employees to get to work using responsible forms of transportation, the Authority offers an incentive known as the Alternative Commute Reimbursement Program. Partial reimbursement is provided to employees who purchase a transit pass (Compass Cards) via a pre-tax payroll deduction at 50% of the monthly cost.

#### **Alternative Fuel Vehicle & Equipment Conversion Plan**

In an effort to adhere to the Authority's Sustainability Policy and Memorandum of Understanding (MOU, 2008) with the Attorney General, the Airport strives to convert as much of its shuttle, vehicle, and equipment fleets to alternative fuels as possible.

Each year, the Authority increases the alternatively fueled portion of its fleet while retiring outdated vehicles that use higher carbon emission fuels. The fleet is comprised of vehicles and equipment used throughout the Airport. In 2017, around 49% of the total fleet used alternative fuel types such as hybrid, biofuel, electric, propane, and CNG technologies. All new vehicle purchases are now thoroughly researched to ensure the most environmentally friendly vehicle is procured for the operational need. This includes evaluating the functions of the job role to better suit the vehicle purchased. Electric and alternative fuel vehicles are heavily considered during this process. The Authority is also working to establish EV charging infrastructure to support the future addition of EV vehicles to the fleet.

In addition to alternative fuel fleet replacement, the Authority is also replacing the brake pads of all fleet vehicles to reduce the levels of copper and zinc particulate on the airfield. Current brake pads on all Authority fleet vehicles will be replaced with copper/zinc free pads during their annual service and should be completed during 2018.

### **Electric Vehicle Charging**

In order to best accommodate the increasing demand for electric vehicles in San Diego County, the Authority is exploring new opportunities to install electric vehicle charging infrastructure at various points around the Airport. The new Parking Plaza that will service Terminal Two (currently being constructed and slated to be completed in 2018) will contain approximately fifteen dual-port Level 2 electric vehicle charging stations and will be pre-wired for the future installation of 180 more chargers. The Airport is also working with SDG&E on other airport electrification projects on the airside (electric GSE) and at taxi / TNC / shuttle hold lots. As new projects arise and the more of the population drive electric vehicles, the Authority will add more EV chargers for use in public spaces.

### **“Green” Taxis**

Back in 2011, the Authority teamed up with the Center for Sustainable Energy (CSE), Mossy Toyota, taxi operators, and the San Diego Metropolitan Transit System to launch the Airport Vehicle Rebate Program (AVRP). This program provided incentives to offset the higher purchase costs of hybrids and encourage taxi companies to transition to green, or alternative fuel, taxis. Since the program’s inception, it continues to grow each year, with more taxis participating. Currently, 99% of taxicabs are alternatively fueled. This can be attributed to better and cheaper technologies and a commitment to reduce emissions and costs where possible.

### **Ground Service Equipment (GSE) Electrification**

In 2017 the Authority conducted its latest inventory of ground support equipment (GSE) that services aircraft between flights. This inventory includes more information than previously gathered which will allow the Authority to have more accurate data on older vehicles and make recommendations for electric or low emission equipment. There are many types of GSE on the airfield, including fuel trucks, baggage tugs, belt loaders, utility carts, push back tugs, cargo belt loaders, forklifts, lifts, sweepers, wheel chair lifts, lavatory trucks, passenger stands, portable air conditioning units, air starts, auxiliary power units, ground power units, cabin service/catering trucks, container loaders, generators, vans/minivans, panel trucks, pickups, deicers, sort platforms and courtesy vehicles. Although the GSE

fleet is owned by the airlines and their subcontractors, the Airport has a stated goal of 100 percent electric ground support equipment on the airfield. In 2017, 30% of GSE is electric or low emission through alternative fuel. The Authority is working with the airlines and San Diego Gas & Electric on projects to incentivize more electric GSE on the airfield.

### **MTS Buses**

In January of 2016, the Authority installed two San Diego Metropolitan Transit System (MTS) ticket machines in the terminals which provide passengers with a convenient way to purchase tickets to use public transit. This is part of the Authority's push for cleaner transportation and to help passengers to choose alternative modes of transit- including buses. Before the MTS bus stop/transit ticket machines were installed in the Terminal 1 Information Booth and the Terminal 2 Information Booth, exact change was needed to ride the bus. The new systems accept credit card payments for bus payments.

### **Vanpool Carpool Reimbursement Program**

Similar to the Alternative Commute Reimbursement Program, the Authority also offers a similar reimbursement for employees who choose to Vanpool during their work commute. The Authority pays 50% of the pre-tax Vanpool expenses for the employees who utilize the service.

### **Energy Usage Reduction & Conservation**

The Authority is constantly looking for new methods to reduce and conserve energy throughout the airport in order to adhere to our Sustainability Policy, to decrease monetary and resource consumption, and to serve as a role model to other businesses throughout San Diego. The Airport uses low energy light fixtures and controls, lighting is automatically shut off when no one is present, and many of the break room appliances are Energy Star labeled (e.g., dishwashers, water coolers and ice machines). In 2017, the Authority hired a full-time energy manager to monitor utility usage and identify ways for reduction and efficiency upgrades.

A few of the Authority's energy specific projects are detailed below.

### **Energy Efficient Airfield Signs, Taxiway Lights & Runway Guard Lights**

In 2010 the Airport took the initiative to become the first commercial airport in the nation to install LED airfield signage, taxiway edge lights, and runway guard lights throughout the airfield. This allows for lower operational and maintenance costs of airfield lighting, less electronic waste produced, and reduced greenhouse gas emissions. Additionally, in 2017, the Authority completed a capital project to rehabilitate the runway by retrofitting the runway lights to LED.

### **Microgrid**

The Airport operates its own medium voltage 12kV electric distribution system that receives power from SDG&E at two separate substations, each of which delivers power to a shared grid. The Airport has a unique demand profile that has reliable daily peaks at 6 a.m. and around 8 p.m., which is outside of the traditional on-peak window. The SDG&E tariff applicable to the Airport is a time-of-use rate. The electricity demand at the Airport varies greatly both daily and seasonally.

The Authority has installed approximately 5.5 MW (DC) of solar production. As more capacity has been added, solar electric production offsets more electricity needed from SDG&E, thereby reducing peak demand. In most typical facilities, the demand reduction from solar would materialize as a cost reduction on the energy bill. However, the Airport's demand peaks are when there is little or no solar production, and peaks that predictably occur early or late in the in the day are likely to be sharper. Therefore, they are easier to predict and to shave with a battery energy storage system. The Authority is in the process of installing a 2 MW / 4 MWh battery energy storage system to shave peak demand, and as a result, lower the Authority's peak demand charges.

### **Environmentally-Conscious Facilities**

The Authority's Sustainability Policy includes guidelines of achieving Leadership in Energy and Environmental Design (LEED) Silver certification or better from the U.S. Green Building Council on all new airport facilities. While ambitious, the Authority has been very successful in ensuring sustainable building practices. In 2011, our Facilities Management Department was our first facility to achieve LEED certification, receiving LEED Gold certification as well as an Energy-Star Rating. The Receiving and Distribution Center (RDC) – opened in 2012 – also received LEED Gold certification. The Green Build Terminal Expansion was awarded LEED Platinum certification in 2014, and SAN is currently the only airport in the world with this certification. The Fixed-Base Operator Complex, which was completed in late 2014 and required by contract to build and maintain a LEED Platinum facility, received that certification in 2015. The new Rental Car Center, which was constructed during 2015, opened in early 2016 and received LEED Gold certification in early 2017. All of the continuous changes and enhancements that are undertaken at the Airport have increased the sustainability of the airport system as a whole and allow the Authority to exhibit our environmental and social commitment to the community.

### **Facilities Life-Cycle Management Program**

One of the Authority's main sustainability initiatives is the Facilities Life-Cycle Management Program, which verifies and documents that every facility and building system is planned, designed, installed, tested, operated and maintained to ensure the highest levels of efficiency. System experts test and measure efficiencies and identify potential operational improvements to increase productivity and cost savings. The program minimizes the usage of consumable resources and carbon emissions, while also proving to be cost-effective. The goal of this program is to increase long-term sustainability of all Authority assets and provide assurance that whatever resource must be consumed is done at a minimum, in the most conscious and efficient manner.

### **Integrated Pest Management Program**

The Authority's Integrated Pest Management (IPM) Program began in 2013. One year later, the Authority identified a large reduction in chemical usage after substituting potentially toxic chemicals for environmentally friendly methods to deter pests. Similar to previous years, the minimum amount of bait stations necessary was kept throughout the airport grounds in 2017. Authority staff worked extensively with its pest management contractor to design and successfully implement an iPad-based inspection

program that processes approximately 900 IPM sites monthly at the Airport. The real-time inspection and reporting process allows for tenant and airport locations to maintain a proactive approach towards pest management, encouraging cleanliness and sanitary practices.

The least toxic approach is generally preferred in any IPM program and 62 percent of all pest-deterrent products (including pesticides, bait gels, sanitizers and other deterrents) were non-toxic. The airport's pest control operator stores the absolute minimum amount of pesticides on site.

### **Sustainability Master Plan**

The Authority is in the process of developing a Sustainability Master Plan that draws on current draft plans and the creation of new plans that address all aspects of sustainable design and operations.

The other plans that will influence the Sustainability Master Plan include the Strategic Energy Plan (STEP), the Water Stewardship Plan (WSP), and the Zero Waste Plan. Authority staff has been sharing the draft STEP with key internal and external stakeholders since 2016. The STEP will ultimately allow the Airport to establish more dependable, cost-effective energy sources, while offsetting greenhouse gas emissions. Also in 2016, the Authority drafted the WSP that provides a framework for rethinking how we manage our water resources while we prepare to accommodate passenger growth, new airport development, and a changing climate. The Zero Waste Plan encompasses the Authority's motivation to serve as a leader in airport sustainability, align with the City of San Diego's zero waste goals, and evolve with new technology and best practices. In addition, there will be a stronger focus on identifying opportunities to achieve zero waste through bin audits, bin replacement and reconfiguring, and utilizing the data collected to make more adjustments throughout the airport including in the terminals, in tenant spaces, and in Authority spaces.

Other plans that will be developed in 2018 include the Air Quality Management Plan and the Clean Transportation Plan. During 2017, Authority staff continued outreach to receive feedback from various internal and external stakeholders on the current draft plans and input on the new plans. These new plans will be completed in the next three years.

### **Sustainability Reporting**

As a result of adopting its Sustainability Policy, the Authority develops industry reporting guidelines for sustainability programs that comply with the rigorous international standards of the Global Reporting Initiative (GRI) framework. The Authority has been providing sustainability reports under the GRI guidelines since 2012, and the latest (fifth) report published April 2017 was a comprehensive look at the 2016 fiscal year. The report provided an opportunity for the organization to track, understand, and communicate its performance across a variety of economic, social, and environmental issues. The Authority consulted the GRI's G4 guidelines in the production of this report, as well as certain specific criteria from the GRI Airport Operators Sector Supplement. The report was developed in accordance with the GRI G4's "Core" standards and is available in digital format at [www.sustain.san.org](http://www.sustain.san.org).

As stated in the Sustainability Report, “SAN is committed to building an enduring and resilient enterprise by effectively managing our financial, social and environmental risks, obligations and opportunities.” Since releasing the 2016 GRI report, the Authority GRI Socialization Team presented the report- including accomplishments, challenges, and upcoming goals- at Authority divisional meetings. This internal communication is important to create a holistic environment where everyone knows how they are contributing to the larger sustainability goals.

### **Sustainable Meetings & Events**

The Airport operates twenty four hours a day, seven days a week, and events and meetings are a routine occurrence. The Authority has taken many steps to decrease or divert waste that can be produced at meetings. Meeting media is projected and supplied to attendees electronically. Authority break rooms are outfitted with Energy Star-labeled appliances, reusable utensils, and centralized water coolers (including Drinkable Air machines). When food is catered from outside vendors, the Airport strives to serve local, organic, and healthy food whenever possible, and ensure that the correct amount of food is ordered (to minimize food waste). Any waste from events and meetings is segregated into the appropriate containers: food waste, recyclables, and non-recyclables. All of the receptacles are properly marked and maintain instructional signage to encourage correct usage and participation from visitors.

In 2017, larger Authority events and quarterly Lunch and Learn meetings were zero waste events. The Authority events included three Lunch and Learn seminars, two Sustainability Fairs, the employee appreciation BBQ, AIREX, and the end of the year holiday party. Compost bins were present at each event with representatives staffing each waste station to help participants properly sort their food waste. These efforts reinforce the commitment to zero waste and waste diversion while educating the participants and engaging with them one-on-one.

### **The Good Traveler Program**

Through its carbon offset program known as the “The Good Traveler,” the Airport has been providing an easy, affordable, and meaningful way for passengers to balance the impact of their travel since September 2015.

The Good Traveler allows passengers to offset the carbon emitted from 500 miles of air travel or 200 miles of car travel through the purchase of carbon offset tags at the cost of just one dollar. North American projects are provided via TerraPass – a carbon offset provider – and include the Arcata Community Forest in Northern California, the Big Smile Wind Farm at Dempsey Ridge in Oklahoma and a Colorado Delta Water Restoration project; NatureBank is another carbon offset provider that provides international project options to reduce emissions from deforestation and degradation in the Congo & Zambia. All of the funds go towards the projects that offset the carbon emitted from traveling. Interested passengers can buy the tags online or at a variety of concessions within the airport terminals.

To date, the program has offset over 23 million air miles through SAN and other airport partners including Seattle-Tacoma, Austin-Bergstrom, Port Authority of New York and New Jersey, and Dallas Fort Worth.

The Good Traveler was also the official carbon offset provider for the Airports Council International North America's (ACI-NA) Airports@Work Conference in March 2017 and American Association of Airport Executives (AAAE) Airport's Going Green Conference in November 2017. The offsets covered the round-trip travel of conference attendees and was also a featured session to present on the program during the conference.

In 2017, a third-party administrator was secured to help administer, market, and grow The Good Traveler program. You can visit [www.thegoodtraveler.org](http://www.thegoodtraveler.org) for an in-depth description, video, vendors selling offsets for purchase, and ways to get involved.

### **Water Usage Reduction & Conservation**

The Authority has focused on water conservation, capture and reuse as one of the most pressing sustainability goals. Due to the desert environment of Southern California and a desire to be on the cutting edge of conservation, the Authority has been very aggressive about making changes to Airport facilities to save water:

- Installing a Weathertrac irrigation monitoring system, ensuring landscaped areas are only watered when necessary. The system uses onsite weather stations to determine how much water is needed to irrigate the landscape and also to shut off the irrigation system after rain events.
- Furnishing all of the faucets in the public restrooms with flow control aerators, limiting the flow to no more than 1 gallon per minute for no longer than a seven second interval.
- Installing urinals using 1.8 gallon of water per flush and toilets using only 1.6 gallons per flush.
- Collecting non-potable water and using for washing, dust mitigation, and other uses that previously used potable water.

In May of 2016, the State of California amended its emergency drought ordinance to repeal the mandatory conservation targets and to permanently ban clearly wasteful practices such as hosing off hardscapes and using potable water to irrigate turf on public street medians. However, droughts will continue to be a frequent and persistent issue in California in the future, as warmer winter temperatures driven by climate change further reduce state water supplies. As such, the Authority actively pursues water conservation opportunities including the replacement of turf in the landscape island located between Terminal 1 and 2, reducing water usage by approximately 95%. The project is estimated to reduce irrigation usage which is expected to cut water consumption from 542,000 gallons per year to 23,000 gallons per year.

In addition, the Terminal 2 Parking Plaza (currently under construction) will include a storm water capture and reuse system that will collect water from the impervious surfaces and reuse it in our Central Utility Plan (CUP). This system will help the Airport meet strict water quality regulations and save over one million gallons of potable water annually. The Authority received an Excellence Award from the Industrial Environmental Association on this storm water capture system.



### **Air Conditioning Condensate Capture & Reuse Program**

As mentioned previously, in mid-2014 the Authority began its Air Conditioning (AC) Condensate Capture and Reuse Program by placing 55 gallon drums at four gates to capture condensate dripping from airplane air conditioning systems. This program has grown since its inception and now includes collection containers at fifteen gates, a 500 gallon water transport tank, and a variety of different uses for the salvaged water. There are now permanent 300 gallon tanks at three of the jet bridges and sensors are currently being installed to monitor the water levels. In 2017, the Airport collected an estimated 99,235 gallons of condensate water from the fifteen locations. AC condensate at the airport is reused at the Airport's wash stations and vehicle wash bay, and also for C&D dust mitigation, power washing, and anchoring large event tents.

All of the captured water is reused in various processes. The captured AC condensate has been used in scrubbers to power wash sidewalks and the airfield, and for the cleaning of vehicles and equipment. The water is used in three wash stations for washing walk off mats, trash bins, and totes. In addition, condensate water was used at construction sites for dust control purposes to meet storm water requirements in a sustainable way (in other words, by not using potable water). The remaining AC condensate was delivered to the Airport's wash bay and a closed-loop triturator (lavatory waste processor) system.

San Diego Airport was also awarded an \$80,000 grant from The San Diego Foundation in response to the organization's *Smart Cities & Water Solutions* solicitation. CleanTECH San Diego is the lead applicant and the four private-public partners are the Airport Authority, OSIssoft, Qualcomm and SenseOps. The proposal is to install real-time sensors at up to twenty pre-conditioned air (PCA) and/or air handling units (AHU) to measure the volume, rate, and frequency of the condensate generation. The wireless sensors will enable the Authority to attain a real-time, quantitative view of its condensate capture to assist in better matching available condensate to appropriate end uses (a priority in the Water Stewardship Plan). The Airport has committed to pursuing a range of water capture and reuse activities to offset the nearly 80% of Airport water uses that do not require potable water. The CleanTECH project was one of only two proposals that were awarded funding in the region, and will advance opportunities to scale up the reuse of condensate for appropriate end uses including power washing, irrigation, and other activities across multiple facilities throughout the Airport campus.

### **Drinkable Air**

A cutting edge investment that the Authority made in 2015 was the purchase of two Drinkable Air machines. In 2017, the number of machines through the Authority increased to a total of five. This type of machine is also known as atmospheric water generator that extracts humidity from the air and turns it into drinking water. This machine makes water by using a common refrigerants condensing coil to attract the moisture from the air through condensation. It is then treated to produce drinking water for our employees and visitors. These two machines are perfect examples of deriving necessary resources out of thin air, without extracting water from traditional sources that are currently drying up.

The air and water filtration systems in the Drinkable Air machine remove particulate as small as 5 micron. An anti-bacterial, anti-microbial air filter traps dust particles from the air, and is changed when necessary (depending on the amount of dust in the air). Another filter, or sanitizer, uses ozone inside of the machine. Ozone is an indiscriminate killer of all things big and small (it destroys and removes all bacteria, viruses and impurities) to give the water the necessary minerals that it needs to not be considered distilled water and rob your body of necessary minerals. The water is run through a mineral type of device that looks like a filter on the way to the outlet about every ten minutes the machine runs the entire contents of water back through the ozone treatment to maintain the high standards of quality.

### **Green Waste Reduction & Xeriscape Program**

It is estimated that 70% of airport property uses xeriscape landscaping. The Authority maintains the airport's 12.5 acres of landscaping with a combination of drought-tolerant California-native grasses, shrubs, trees, and palms. These plants produce less green waste and require less irrigation, fertilizers, herbicides, and pesticides than traditional or exotic landscaping. With the help of our contractor, Aztec Landscaping, all of the green waste that is collected from landscaping and maintenance activities is recycled into mulch and compost. In 2017, 64%- or over 22 tons of green waste- was diverted from the landfill. The remaining green waste is unable to be turned into mulch or compost.

The Authority has also incorporated seven pet relief areas with artificial turf instead of real grass to reduce water use while producing zero green waste, but a main focus regarding landscaping is artificial turf conversion or drought-tolerant, native plants.

### **Storm Water Management Plan**

In 2017, the Airport engaged storm water consultant AMEC Foster Wheeler to complete an annual site audit of over 30 airport tenants with operations subject to the Authority's Storm Water Management Plan. The audits include interviews with tenants and observations of their operations and activities related to storm water management. The audit evaluates the general compliance with and effectiveness of the Storm Water Management Plan and is also used to identify the training needs of both tenant employees and Authority staff. The site audit has been conducted once every two years since 2005 and allows the Airport to monitor trends in awareness and compliance.

### **Zenn Valves**

As utility costs continue to rise, Airport staff worked to improve the process by which the Authority was billed for water. The Authority has recently installed seven flow management devices – called “Zenn Valves” – to provide more accurate water meter readings, to help to reduce billable water consumption by up to 30% and to more effectively identify water efficiency retrofit opportunities. By reducing or eliminating activities that don't add value to our plumbing systems, the impact of rising costs can be replaced with real savings.

Zenn Valves reduce air and the rate of water travel through the water lines, resulting in more accurate meter readings and cost savings potential. Zenn Valves can be used anywhere there is a metered line,

and the Authority currently has 12 meters located in various areas throughout the property, and two additional installations are planned. Any opportunity to provide cost savings can be beneficial in many ways, and money saved on one efficiency project can be used to fund other jobs, departments or capital projects that provide air transportation to the region with safe and effective facilities that exceed customer expectations.

## 2. Describe your recycling and waste collection system.

### A) How many recycling containers and/or dumpsters do you have on site?

**1,033** Recycling Containers & **19** Recycling Dumpsters

#### Recycling Containers

There are approximately 1,033 recycling containers throughout airport grounds. The containers are distributed throughout 3 general areas – public spaces, tenant areas, and the Authority’s own office space. Approximately 173 recycling receptacles are deployed throughout the airport’s terminals and along the curbside accessible to the public. The new Rental Car Center has 20 recycling bins distributed throughout and outside of the structure. Each of the Authority’s 400+ employees, contractors, consultants or anyone working in the office space has desk-side recycling bins. There are also containers in the lobbies, centralized copying/printer areas, conference rooms, and break rooms and kitchen areas to ensure that employees and visitors have adequate access to properly dispose of recyclables. In addition to traditional recycling bins, the Authority has distributed 9 Big Belly Solar-Powered recycling compactors in front of both terminals at the airport (see picture to the right). These compactors, which were first deployed in 2009, are made from recycled materials and have 5 times the capacity of a standard 35-gallon recycling bin. The increased capacity and efficiency reduces the amount of collection trips needed by 80%, which equates to decreased maintenance, labor costs, and greenhouse gas emissions. Every recycling receptacle has proper signage, encouraging visitors and employees to recycle. All 53 of the food waste collection bins are included in our recycling totals and are located in concession prep kitchens, restaurants, the USO, and Authority office spaces.



The Authority has 5 liquid waste containment units (see picture below) located at security checkpoints throughout the airport’s terminals. Since containers carrying over 3 ounces of liquid cannot be taken through the passenger screening checkpoints, a large portion of recyclables were being improperly disposed of as trash and excessive amounts of liquids were contaminating the recycling loads. The liquid waste containment units allow travelers to dispose of liquids and then dispose of the empty container into the recycling or trash bins located alongside each unit. The liquids are then properly disposed of into the sanitary sewer. In 2017 the liquid containment units collected approximately 32,000 gallons of

liquid. Below is a picture depicting a trash, recycling, and liquid containment receptacle placed in an easily accessible pre-security location for visitors and passengers to utilize.



### **Recycling Dumpsters**

The Authority's large collection of recycling dumpsters include 3, 4, 6, 25, 35, and 40 cubic yard bins that are managed by Republic Services, our waste services provider. The Authority includes not only dumpsters for commingled recycling, but also containers for metal discards, wood, compostable food waste and any recyclable material in the total count of dumpsters. There are currently 19 recycling dumpsters being utilized at the airport.

### **B) How many trash containers and/or dumpsters do you have on site?**

**1,169 Trash Containers & 17 Trash Dumpsters**

#### **Trash Containers**

There are an estimated 1,169 trash containers scattered throughout the same 3 general areas – public spaces, tenant spaces, and the Authority's office spaces. In the terminals and along the publicly accessible curbside, there are approximately 255 trash receptacles. Each employee also possesses a desk-side trash bin and has access to trash containers in the lobbies, centralized copying/printing areas, conference rooms, and every break area and kitchen. The Authority has a total of 9 solar powered Big Belly trash compactors throughout the terminals at the Airport. They are conjoined to the Big Belly recycling compactors, with educational signage on both compactors, to try and encourage visitors to think about their waste while also learning how renewable energy can be used to reduce labor, maintenance, and air quality costs.



An exciting new addition to the Authority's waste collection program was the distribution of dedicated Foreign Object Debris (FOD) collection bins (see picture to the left). FOD is what the Airport considers trash on the airfield and is a high priority to be collected and placed in the FOD containers due to the impending safety hazard that foreign objects can pose. In July of 2015, the Authority deployed 40 FOD containers, placing a bin at each gate where security rules allow. This is another great way for the airport to enhance its waste collection program while educating employees and tenants on the benefits of disposing of waste properly on the airfield. Collecting FOD also helps us with our efforts to prevent pollution.

### **Trash Dumpsters**

The Authority's trash dumpsters range in size from 3 to 40 cubic yard bins that are services by Republic Services under contract. There are currently 17 trash dumpsters in use throughout the airport's grounds.

### **C) Are your recycling containers next to or near your trash containers?**

Throughout the airport, the Authority has made a thorough effort to co-locate recycling and trash receptacles in public spaces. In Authority office spaces, every recycling container is paired with a smaller trash container through an attachment allowing the small trash bin to hang onto the larger recycling receptacle. Every break room and kitchen area in Authority areas also contains recycling receptacles, next to trash bins, and in most cases also located near the food waste collection bin. The close proximity of the waste and recycling bins allows for every employee to see that there are easy ways to dispose of each type of waste, and with the help of proper signage and education, are encouraged to participate in properly disposing of waste, recyclables, and food waste. In 2017 and looking forward, the Authority plans for one to one bin placement in all new construction and development.

### **D) Where are your recycling containers located (*ex: break room, staff work room, etc.*)?**

As mentioned previously, the Authority has dispersed recycling containers throughout the entirety of the airport. Recycling bins are conveniently placed throughout public spaces – the curbside outside of the terminals, throughout pre-security and post-security areas, near and in restaurants and stores in the terminals, and close to all gates throughout the airport. There are also recycling bins in every Authority employee's cubicle or office, every break room and kitchen area, conference rooms, copy rooms, and workspaces. Every tenant has recycling bins located throughout their office spaces, breakrooms, kitchen areas, and work areas. It is the Authority's mission to ensure that recycling materials is as effortless and accessible as possible so that employees, tenants, and the public can participate. One to one bin pairing is emphasized along with educational signage near bins.

### **E) What percentage of your waste containers are recycling containers vs trash containers?**

Based upon the number of trash and recycling containers, the percentage of recycling containers at the airport is **47%**, while the percentage of trash receptacles is **53%**.

### 3. What materials are recycled and/or diverted from the waste stream?

It is the Authority’s priority and mission to divert and recycle all possible waste streams. With the expansion of projects, old and new, the Authority is proud to describe below how it has met or created new waste diversion and recycling goals in 2017. Initiatives are listed below in alphabetical order.

#### Commingled Recycling

Our single stream recycling program accepts Styrofoam, cartons, paper products, cardboard, empty rigid plastics, empty metals, cans, and aluminum foils and empty glass bottles and jars. Blue recycling containers accepting all commingled recyclables are located throughout the public and employee spaces.

#### Construction and Demolition Waste

The vast majority of waste produced from the Airport’s construction and demolition (C&D) projects in 2017 were directed to recycling facilities in the region, and diverted from local landfills. As a part of the Authority’s Sustainability Policy, all new facilities on airport grounds must be certified LEED Silver or better, which requires at least a 90% recycling rate of C&D waste.

There were primarily three large construction projects on Airport property in 2017: a new Federal Inspection Station (FIS), Terminal 2 Parking Plaza (T2PP), and Clear Object-Free Area (OFA) Taxiway B. The inert waste comprised asphalt, concrete, and dirt; remaining waste included landscape debris, metals, and assorted non-recyclable material (landfill waste). Each of the three projects had a total C&D waste diversion rate of over 90%. The three projects combined, equaling 14,605.19 tons of material, had a recycling rate of 96% (see table 1).

**Table 1: 2017 C&D: Total Percent Recycled**

2017 C&D Projects (tons)	Salvaged	Reused	Recycled	Disposed	Total	Percent Recycled
	0	0	14,017	588	<b>14,605.19</b>	96.0%

In the next few years the Authority will be building out new facilities as part of the Airport Development Plan (ADP) that represents the final build-out of new airport structures in the next 20 years. In the future we expect more of the same and depend on an inter-departmental effort to ensure that we maximize the amount of C&D that can be reused on site or recycled.

#### Electronic Waste (E-Waste) & Universal Waste Recycling Program

Keeping true to Authority tradition, there were two Electronic and Universal Waste Collection Events in conjunction with the bi-annual Sustainability Fair. At each of the 2017 fairs, the Authority employees could recycle electronic and universal waste, donate items to items to Goodwill, purchase LED energy-saving light bulbs, learn about water conservation, and play an interactive waste diversion game for sustainable prizes.

The two 2017 Sustainability Fairs yielded the following results:

- A total of 300+ participants in attendance
- Nearly ten tons of e-waste was collected and recycled
- 3,317 lighting units (universal waste) recycled – over 1,200 pounds of fixtures
- Over 150 attendees participating in the waste educational diversion game

### **Food Waste Composting Program**

The Food Waste Composting Program has been the largest addition to the Authority's waste diversion practices over the course of its existence and expansion. Authority staff and every food and beverage concessionaire at the airport participate. In 2017, 368 tons of food waste were collected and taken to the Miramar Greenery to be composted. The Authority is committed to growing and maintaining this program due to the high volume of food waste that can be diverted from local landfills and instead utilized in a way that gives back to the environment.

In 2017, for the first time, food composting was also added to large-scale Authority events such as the Employee Appreciation lunch that served approximately 300 people, the AIREX demonstration with over 150 participants, and the Authority Holiday Party for over 350 employees. These combined events diverted approximately 111 gallons of food waste that was composted through the Miramar Greenery or a local composting organization.

### **Grease Collection Program**

The Authority has worked with Bradford Airport Logistics to collect grease, waste vegetable oil, and grill by-products from cooking operations in the Airport and recycle them by processing into biofuel, fertilizer and animal feed. In 2017 this program was able to collect and recycle 13,731 gallons of grease and 3,640 gallons of by-product from airport services.

### **Green Waste Reduction Program**

Despite the fact that the airport supports drought tolerant landscaping and has ultimate plans to transition every landscaped area into a xeriscaped area, some plants require trimming and collection. All green waste that is collected at the airport is recycled into mulch and compost. Approximately 64% of all green waste was diverted from landfill. The remaining green was unable to be turned into mulch or compost.

A major landscape project in 2017 was removing lawn space between Terminal 1 and Terminal 2 and replacing it with a xeriscaped area. As a result of the project, there is approximately a 50% reduction in irrigated area. Previously the space would have consumed 542,000 gallons per year. The new irrigation usage is estimated at 23,000 gallons per year, yielding a 95% water savings.

### **Office Battery Collection Program**

The Authority's Office Battery Collection Program has been in place since 2010 and continues to be an effective and successful program with 12 drop-off locations throughout Authority office spaces. The collection units are clearly marked and labeled with instructions on how employees can dispose of battery waste from home and the office. In 2017, a total of 1,264 pounds of batteries were collected from Authority spaces.

### **Office Paper Recycling Program**

Every workstation, office space, and shared document-processing area is equipped with office paper recycling and shredding containers by the Authority. This placement of bins makes the proper disposal of documents, even confidential ones, easily accessible to all employees. An on-site service provides shreds and recycles the content of the bins. Approximately 99% of all paper purchased and used by the Authority in 2017 was 30% post-consumer recycled paper. The Authority actively encourages employees to perform tasks electronically, but due to various security mandates, understands that it is not always feasible and instead has placed convenient recycling bins to ensure that people can participate in recycling paper. The Procurement Department facilitates the office paper shredding program of confidential documents. The documents are shredded and then taken offsite to be recycled by a third party vendor (Corodata Shredding, Inc.). In 2017 we recycled 8,635 pounds of shredded paper.

### **Paint Recycling Program**

The Authority is able to recycle paint through its annual Paint Recycling Program with the help of Ocean Blue, our hazardous wastes service provider. Each year, latex paints and oil-based paints that are no longer needed by the Authority are recycled through Amazon Environmental, Inc. and PSC. In 2017, the Authority was able to recycle 50 gallons of both latex and oil-based paint.

### **Shrink Wrap Bailer**

In 2016 the Airport installed a shrink wrap baler to collect palette shrink wrap for recycling. Bradford collected and bundled the shrink wrap until it was collected for recycling. In 2017, approximately 1,000 pounds of shrink wrap was recycled.

### **Surplus Equipment Disposition**

The Authority has made surplus equipment available for re-use or recycling through public auction or donation since 2009 with its Surplus Equipment Disposition Program. The purpose of this program is to try and increase the life of equipment and encourage reuse and recycling in a situation where the equipment would have been scrapped and sent to the landfill. By growing and continuing this program, the Authority is able to guarantee the sustainable usage and recycling of excess equipment.

For cubicle and office furniture, about 50% of materials are reused when configuring and moving office spaces. The West Wing office area was taken offline in 2017 with an estimated 75-80% of cubicle parts and 90% of office parts repurposed.



## **Trainable Carts**

The Authority, Flagship Airport Services, Republic Services, and airport tenants have teamed up to create a streamlined waste transportation and collection program through the use of trainable carts. The carts are used to move waste from areas around the airport and transport it to the Central Recycling & Waste Disposal Facility. Each cart has a capacity of 3 cubic yards and is eventually placed on a dumper and automatically emptied into the correct compactor. These carts effectively transport waste to the corresponding dumpster and help to reduce collection trips, ultimately decreasing the emissions of greenhouse gases and making contamination of the loads less likely. The Authority has a total of 30 trainable carts with proper signage and labeling.

## **Year End Totals for 2017**

The year-end airport recycling tonnages show how the Authority has successfully implemented multiple measures to ensure that the largest amount of waste possible is recycled or reused and being diverted from local landfills. Construction and demolition (C&D) waste is excluded from operational waste diversion numbers, and from the cost savings associated with diversion.

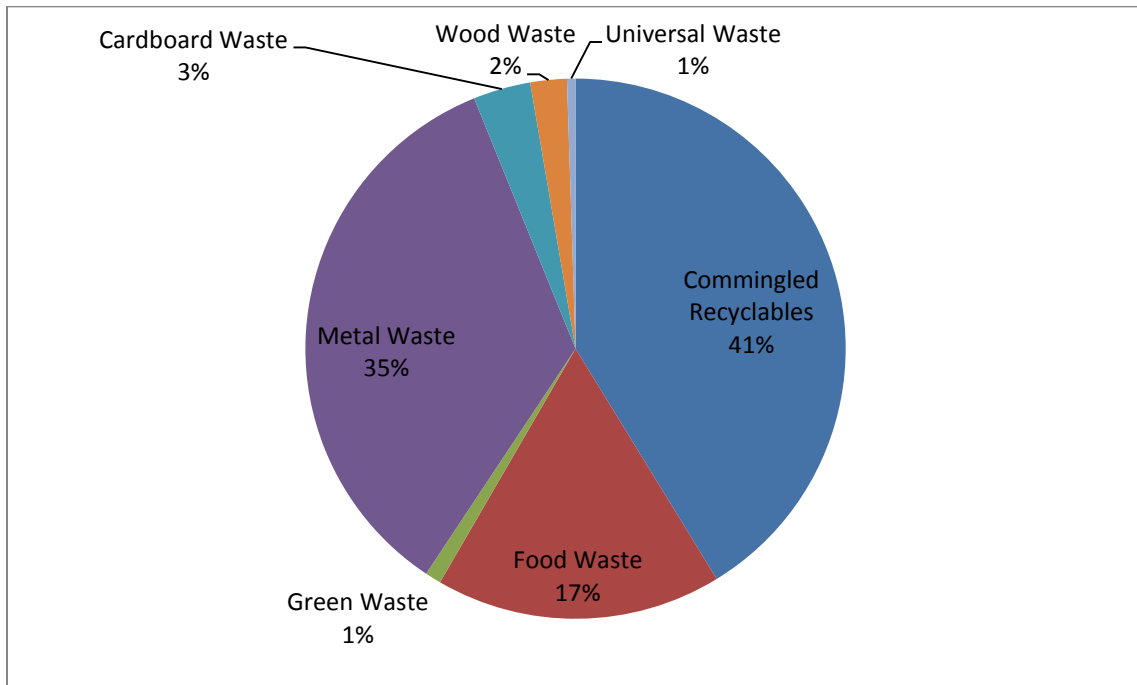
This trend of increasing the amount of diverted recyclables is proof that throughout the years, the Authority has been effective in improving our recycling efforts.

Using information collected from various Authority departments, Republic Services annual tonnage report, and the most recent physical audit of our waste stream, the Authority has calculated the tonnages of different recyclable material types (represented in Table 2 and Chart 1). The 954 tons of commingled recycling recovered in 2017 represent cardboard, plastics #1-7, paper, metal/aluminum, and glass. The continual growth of our Food Waste Collection Program has allowed the Authority to divert 396 tons of food waste in 2017. Of that total, food donations from airport concessionaires in 2017 were 28.44 tons- or 54,105 pounds.

**Table 2: Recyclables Recovered in 2017**

<b>Material Type</b>	<b>Tons</b>	<b>Percentage</b>
Commingled Recycling	953.93	41%
Food Waste	396	17%
Green Waste	22.36	1%
Universal Waste	11.73	1%
Metal Waste	798.9	35%
Cardboard Waste	79.45	3%
Wood Waste	50.49	2%
<b>Total Recycled</b>	<b>1,434.51</b>	<b>100%</b>

**Chart 1: Percentages of Recyclable Material Types Recovered in 2017**



The Authority’s single stream recycling program and all of our other waste diversion efforts continue to significantly reduce the overall cost of waste disposal services. A new effort was initiated in 2017 to identify potential cost saving opportunities. To calculate the effectiveness of the program, we estimated the savings for each material type based on the cost avoided had the recyclables been collected and disposed of as trash, except for Universal waste since it has to be properly disposed of and recycled by law. Based on this analysis, the total cost savings accrued by the Authority’s waste diversion efforts in 2017 was \$61,988. Table 3 illustrates the savings realized by types of recyclable material recovered.

**Table 3: Cost Savings By Material Type in 2017**

<b>Material Type</b>	<b>Cost Savings</b>
Commingled Recyclables	\$31,002
Food Waste	\$9,108
Green Waste	\$514
Wood Waste	\$1,161
Metal Waste	\$18,374
Cardboard Waste	\$1,827
<b>Total Savings</b>	<b>\$61,988</b>

#### **4. Does your business purchase Environmental Preferable Products (EP3)? List any EP3 Products that you have purchased.**

The Authority’s Procurement Department strives to purchase only products that maximize recyclability and recycled content, reduce toxicity, and conserve natural resources, raw materials, and energy. By doing this, Procurement is aiming for streamlined efficiency as well as environmental stewardship. They do this by adhering to their “Sustainable Statement & Resource Guide,” which requires the consideration of every product’s potential impacts on human and environmental health. The environmentally preferable purchasing process requires careful consideration that takes into account the product’s lasting potential on the environment, human health, cost, quality, and performance. Each product has a differing selection process, but it always includes a full life-cycle comparison, measuring

raw material acquisition, production, manufacturing, packaging, distribution, potential for reuse, operation, maintenance, and finally the disposal of the product. Identifying each aspect of the process encourages a complete assessment of the recycling capabilities of a product.

The Authority uses criteria such as Energy Star, Green Seal, LEED, and EPA Eco Purchasing Guidelines to identify environmentally preferable products. These products are purchased whenever such products perform efficiently, do not compromise safety, quality or effectiveness, and are economically feasible. This program helps to support markets for recycled and environmentally preferable goods and services, with an emphasis on supporting local businesses. There are procedural aspects to purchasing, such as pre-submittal meeting via phone or online, that encourage suppliers and contractors to provide environmentally friendly products at competitive prices, incorporating and maximizing recycled content into bid specifications, and encouraging providers to consider the environmental impacts of delivery.

This program and the mindset that comes along with it have resulted in the purchasing of sustainable and biodegradable kitchen supplies, office supply delivery to one location to decrease trips and packaging waste, reuse of packaging materials, default double-sided printing, efficient copier “Follow Me Print” and automatic cancellation functions to discontinue unnecessary printing, and the creation of an inter-departmental log of office items and furniture to maximize reuse.

Some highlights from 2017 include:

- 99% of paper purchased for the Authority contained 30% recycled post-consumer content.
- 100% of toner cartridges were recycled.
- 100% of the packaging material used by the Authority was reused (the Authority doesn't purchase any packaging material like boxes, packing peanuts or bubble wrap, just reuses from previous deliveries).
- Where possible, Authority print jobs were printed using bio-degradable ink.
- 100% of the floor mats were created from recycled rubber and other materials.
- Cleaning and maintenance supplies purchased are made with recycled and/or environmentally preferable materials, where possible.
- The Authority purchased biodegradable, compostable and recycled content kitchen products, which include napkins, cups, knives, spoons, forks, plates, and bowls.

See the attached “Procurement’s Sustainable Statement and Resource Guide.”

## **5. What efforts have been made to inform and educate employees, tenants, and/or customers about waste reduction and recycling?**

### **A) Do you have signage on all recycling containers?**

Yes. Each recycling receptacle features the universal recycling symbol of three mutually chasing arrows and/or verbiage to indicate that the container is for recyclables only. In an effort to minimize contamination and increase employee knowledge, the Authority has put up signage and displays of proper recyclables on or above the recycling bins. Every food waste collection bin is green in color, with signage fastened directly onto the lid or on the wall above the container. The Authority includes signage and color-coding to try and make the waste diversion program decipherable and ingrain in employee minds what materials are acceptable to dispose of in trash, recycling, and food waste bins. In addition to signage, the Authority works with Flagship to install blue liners in all recycling cans to further differentiate the recycling cans from the landfill ones.

### **B) Did you distribute a letter to each tenant/occupant explaining your recycling?**

The Authority provides information regarding the recycling programs to employees and each tenant. This information is available in the Airport Rules & Regulations, the Authority's Recycling Brochure, and additional training and public communications throughout the year. During 2017, Planning and Environmental Affairs Department staff handed out the City of San Diego's recycling ordinance in all tenants and authority spaces during the bin audit.

#### **Recycling Brochure**

As mentioned previously, the Authority produces a bilingual recycling guide that serves as an education tool to inform employees and tenants about the Authority's multiple recycling programs. The brochure includes guidelines on recyclable materials, and locations to find recycled facts and statistics regarding recycling. In an effort to be accessible and to reduce paper usage, this guide is made available to all the aforementioned stakeholders, as well as on the Airport's intranet. External messaging about the Airport's recycling activities can be found at – [www.san.org/green](http://www.san.org/green).

### **C) What additional ways is your staff and/or tenants informed about your recycling and waste diversion programs? Please include examples of the outreach and educational materials.**

Many outreach mediums were also implemented in 2017 including in-person visits, presentations, workshops, interactive waste game, and specialized trainings for teams. More educational opportunities were implemented to remind employees and tenants what items can be recycled and train new employees on proper recycling practices.

#### **Awards**

The following recognitions were awarded to the Airport in 2017.

- January 2017: Integrated Pest Management Achievement Award from the California Department of Pesticide Regulation

- April 2017: Best Innovation Award for The Good Traveler from Airports Council International
- June 2017: Level 2 Renewal of Airport Carbon Accreditation from Airports Council International
- August 2017: Outstanding Construction and Demolition Award from the California Resource Recovery Association
- September 2017: Emie Awarded to Airport Partners Bradford and Flagship from the San Diego Food System Alliance
- October 2017: Environmental Excellence Award from the Industrial Environmental Association
- October 2017: Bronze Tier Diamond Award from SANDAG's iCommute Program
- November 2017: Innovation Award for Food Recovery Program from the Environmental Protection Agency
- December 2017: Green Fleet Leadership Ally Award from the San Diego Regional Clean Cities Coalition

### **Electronic Communications**

The Authority uses emails and other electronic communications, like webinars and conference calls, to alert Authority staff and airport employees on waste management and recycling updates, including information on upcoming waste diversion events and opportunities.

### **Blog Posts**

In 2017, the Authority's Environmental Affairs Department began to produce monthly blog posts, highlighting various sustainability efforts and initiatives throughout the Airport. Blog posts can be viewed at [www.community.san.org](http://www.community.san.org).

The blog posts for 2017 are attached.

### **Green Flash**

The Authority's Environmental Affairs Department has produced a monthly email bulletin, known as the "Green Flash," since 2010. The Green Flash provides important information related to the environment ranging from waste reduction to community outreach events.

The 2017 Green Flash bulletins for each month are attached.

### **Social Media**

The Authority interacts on three social media platforms- Facebook, Instagram, and Twitter. Various posts on Airport and sustainability issues and updates are posted on these various platforms.

The Airport's environmental social media posts during 2017 are attached.

### **Sustainability Report**

In 2017 the San Diego County Regional Airport Authority released its fifth Sustainability Report that covers calendar year 2016, and highlights the Airport Authority's activities and accomplishments in the

areas of environmental, economic and social sustainability. Outreach was conducted to Airport Authority departments and business partners to educate them on the linkages between the organization's mission and values and the "material" issues highlighted in the Sustainability Report. Examples of topics covered in the report include:

- A carefully thought-out financial strategy that serves as the bedrock for the Airport Authority's four other core organizational strategies
- Updates on the Airport Authority's water, storm water, energy and air quality management plans
- SAN's extensive community outreach efforts in regards to major capital improvement projects, traffic and noise mitigation
- Customer satisfaction survey results and initiatives regarding security, ground transportation, concessions and more
- Efforts to attract new employee talent in the face of an aging workforce.

The Airport Authority consulted the GRI G4 guidelines in the production of this report, as well as certain specific criteria from the GRI Airport Operators Sector Supplement. The report was developed in accordance with the GRI G4's "Core" standards and is available in digital format at [sustain.san.org](http://sustain.san.org).

### **Tenant Information Notices**

Tenant Information Notices are sent to each tenant at the airport, as well as Airport Authority employees, to keep everyone up to date on any alterations, improvements, projects, and necessary information at the Airport. Whenever there is a change or addition to waste programs or procedures at the Authority, that information is included in the Tenant Informational Notice. Also, the Authority's annual e-waste events and Sustainability Fair are announced to every Authority Employee through these notices.

### **Meetings**

The Authority holds reoccurring meetings with a variety of stakeholders, including tenants, contractors, and vendors, throughout the year. For example, monthly All Concessionaire meetings are held in order to keep concessionaires up to date with various Authority related subjects—including information on the sustainability, waste, and pest programs. The Authority also meets on a weekly basis with Flagship, the airport's janitorial service provider, to ensure that every party is accurately informed. It allows for creative collaboration so that the groups can work together to produce solutions and innovative cleaning and waste diversion programs.

### **Outreach Events**

The Authority is very active in promoting and hosting outreach activities that focus on waste reduction and raise awareness about resource conservation. The events held in 2017 are listed below:

- **Lunch and Learns:** The Planning and Environmental Affairs Department implemented quarterly Lunch and Learns for the Authority staff on various sustainability topics. The June workshop topic

was Home Energy and Water Tune Up co-sponsored by the Center for Sustainable Energy, the September workshop topic was Waste Diversion, and the December workshop topic was Alternative Transportation. These three workshops reached more than 80 employees total.

- **Sustainability Fairs:** The Planning and Environmental Affairs Department hosted airport-wide “Sustainability Fairs” on April 21 and September 29. Over 200 employees from the Airport Authority, airlines, concessions, and contractors attended the event. Educational games and information on waste diversion were presented at the event.
- **“Creek to Bay Cleanup Day” at Spanish Landing:** The Planning and Environmental Affairs Department hosted a cleanup site at Spanish Landing Park East as part of “Creek to Bay Cleanup Day” on Saturday, April 22<sup>nd</sup> from 9 am to noon. The region-wide Creek to Bay Cleanup Day is an annual volunteer event organized by I Love a Clean San Diego to help remove trash from San Diego’s watersheds and coastline. Over 50 volunteers participated in the cleanup activities at the site, collecting approximately 145 pounds of trash and 32 pounds of recycling from the park and water areas.
- **Bike to Work Day:** The Authority hosted a pit stop for Bike to Work Day on May 18<sup>th</sup> in partnership with SANDAG’s iCommute program. The pit stop had 12 Authority volunteers and more than 150 bike riders visiting the pit stop for treats and information about the sustainability achievements at the Airport.
- **Meeting with California Least Tern (CLT) Monitoring Teams:** The Planning and Environmental Affairs team met with the teams that monitor the California Least Tern (CLT) on the Airport Authority’s properties. Representatives of the US Fish and Wildlife Service and San Diego Zoological Society’s Center for Reproduction of Endangered Species (CRES) debriefed Environmental Affairs on the 2017 nesting season’s activities. 24 CLT nests were counted and protected in the 2017 nesting season.
- **Coastal Cleanup Day:** The Planning and Environmental Affairs Department hosted a cleanup site at Spanish Landing Park East as part of “Coastal Cleanup Day” on Saturday, September 16<sup>th</sup> from 9 am to noon. Over 60 volunteers participated in the cleanup activities at the site, collecting approximately 158 pounds of trash and 46 pounds of recycling.

## Training

The Authority offers a series of training modules focused on different topics that every Authority employee must complete and pass each year. One of the modules is entitled “Environmental Stewardship,” which includes information on: environmental sustainability, wildlife preservation, stormwater management, integrated pest management, and of course, recycling and waste management. To make it through each section, employees must read, listen, and answer each question correctly in order to pass. This ensures that all employees receive annual training and are properly educated on the current state of the Authority’s recycling programs. The training includes information on our Food Waste Diversion Program, sustainability reporting, the Authority’s commitment to LEED certification, as well as, public and alternative transportation options for employees.



## **Webpages**

The Authority uses its public webpage to post information about the Authority's commitments to being an environmental steward, as well as information surrounding recycling and e-waste programs at the Airport. In addition to the Airport's public webpage, the Authority's own internal webpage (only accessible by employees) contains more specific information on recycling as well as the monthly Green Flash e-bulletin, additions and changes to any recycling programs, and updates pertaining to environmental events.

## **D) Describe any recycling policies or operating procedures you have incorporated into your daily operations.**

It is an airport policy that every tenant and employee participate in our commingled recycling program. The Authority has also adopted recycling policies surrounding food waste requiring that all retail and food service concessionaires participate in our Food Waste Collection Program. In each concession, there are properly labeled recycling and food waste bins. As mentioned before, these bins are serviced daily (and in some places multiple times per day) by Flagship and taken to the Central Recycling & Waste Disposal Facility. Republic Services then hauls the different waste streams to their respective processing facilities. We comply with the City of San Diego's and the State's recycling ordinance and encourage our stakeholders to do the same while serving as a resource to assist them with compliance.

## **E) Describe any incentives provided that encourages waste reduction/diversion practices.**

The Authority provides incentives to help encourage all airport employees to participate and educate themselves on sustainable practices. The biggest opportunity provided to all 7,000+ airport employees (of which Authority staff equals a little over 400) is the E-waste collection events (included in the Sustainability Fairs) twice a year, which allow employees to bring items from home and work to contribute to the recycling effort. The Sustainability Fair includes a variety of incentives including free coffee and donuts, giveaways of reusable bags perfect for grocery shopping, reusable straws to reduce the single-use plastic straws, reduced-priced LED lightbulbs to help conserve energy while reducing costs, and the option of donating to Goodwill which provides convenience and eliminates the need for employees to make a separate trip to a drop-off location. Authority employees are offered partial reimbursement for using public transit, and receive recognition and parking priority for having electric vehicles. The Authority is always aiming to provide education on waste diversion practices to everyone who works and passes through the airport so that they can use that knowledge effectively to reduce their own waste stream at work, at home, and beyond.

## **Program Developments for 2018**

### **Air Conditioning Condensate**

2018 plans for the Airport's AC Condensate Capture and Reuse Program include finishing installation of sensors on all collection barrels to accurately read condensate collected, and receive real-time data to empty the bins for use. Currently we are in a pilot phase installing real-time sensors at pre-conditioned air and/or air handling units to measure the volume, rate, and frequency of the condensate generation. This \$80,000 grant from The San Diego Foundation in partnership with CleanTECH and SenseOps will allow for the installation of more monitors throughout the year.

### **Central Waste Facility**

In early 2017, the central recycling and waste disposal facility was refurbished to provide improved containment to manage foreign object debris (FOD) that is a hazard to aircrafts, to add energy efficient lighting to improve safety, and to relocate the wash sink to improve good housekeeping and control/disposal of wash water liquids. Additionally, the project improved the video camera system to assist in compliance monitoring. In 2018 the Authority plans to install signage on dumpsters and compactors to further educate tenants and users on proper waste placement. These signs will be installed in early 2018 to assist with waste diversion and achieve the Authority's goal of zero waste.

### **FOD Management Plan**

In late 2017, the Authority appointed an employee as Foreign Object Debris (FOD) Manager to oversee FOD practices. Since many tenants, departments, and employees interact with FOD in different ways, it is important to put together a comprehensive plan to encompass all practices and operational management. This plan will be completed by Q3 of 2018 and the FOD Manager will continue to supervise compliance of the program.

### **Recycling Bin Inspections**

A new and exciting initiative that took place during 2017 was recycling bin inspections in all Authority and tenant break room spaces. This is to ensure that all bins have one-to-one bin pairing with proper signage. These recycling bin inspections will continue into 2018, occurring twice a year. This will confirm continued bin pairing, updated signage posted, and proper recycling habits. If the staff conducting inspections notices improper practices, then there will be follow-ups and trainings for compliance.

### **Strawless Campaign**

The Authority is investigating removing straws from the waste stream by either eliminating single-use plastic straws or encouraging tenants to purchase eco-friendly reusable or single-use straws. The City of Seattle launched a strawless campaign in September 2017 that partnered with large organizations and leaders in the city including Sea-Tac Airport, Safeco Field (the baseball stadium), CenturyLink Field (the football stadium), and local restaurant groups. In 2018, the Authority will continue to explore the possibility of launching a strawless campaign at the airport.

### **Tenant Education**

Education will occur on an annual basis to all tenants as refreshers for what goes where in terms of waste diversion (recycling, compost, and landfill) and opportunities for waste reduction. These presentations and workshops will take different forms, such as lunch and learns, presenting to concession and tenant team leads during monthly meetings, or providing resources to employees on proper waste diversion practices.

### **Updating Rules and Regulations**

In early 2018 the Airport Authority proposed draft changes to the Rules and Regulations to address environmental concerns and priorities. The Rules and Regulations govern the conduct, use, actions, and operations of tenants, lessees, concessionaires, airlines, permittees, licensees, commercial user, and Authority employees of San Diego International Airport. If approved, the new proposed changes to the Rules and Regulations will involve the cooperation of tenants, concessions, and airlines to recycle appropriately. The proposed language also includes specifications: “blue recycling bins/containers must be present in a one-one-ratio with waste receptacles in all spaces where recyclables and wastes are generated in order to ensure proper handling, recycling, and disposal.” Finally, the Rules and Regulations will be updated to formalize the participation of all food service concessionaires in the Authority’s Food Recovery Program.

### **Waste Characterization Studies**

Working with the Authority’s waste hauler, two waste characterization studies will be conducted each year so the Authority has an opportunity to discover opportunities for further diversion and waste minimization. Information on these studies will be provided to staff and tenants so they know what items can be diverted, and where there are opportunities for improvement.

# Attachments



# San Diego County Regional Airport Authority

## Procurement Department

### SUSTAINABLE STATEMENT & RESOURCE GUIDE

#### **Purpose**

The San Diego County Regional Airport Authority's Procurement Department has a goal in achieving sustainability to maximize environmental benefits of the Authority's activities by encouraging the procurement of services and products to:

- 1) Integrate fiscal responsibility and environmental stewardship;
- 2) Reduce toxicity;
- 3) Reduce energy and water consumption;
- 4) Reuse existing products or materials in product or service life cycle;
- 5) Implement, integrate and maximize durability and maintenance requirements;
- 6) Conserve natural resources, materials and energy; and
- 7) Maximize recyclability and recycled content.

The purchase of Environmentally Preferable Products, where criteria have been established (e.g. Energy Star, Green Seal, and EPA Eco Purchasing Guidelines) is preferred whenever such products perform satisfactorily, does not reduce safety, quality or effectiveness, and/or are available at the lowest responsible bid. The Authority recognizes that competition exists not only in prices, but also in the technical competence of suppliers, in their ability to make timely deliveries, and in the quality and performance, including environmental performance, of their products and services. Balancing these sometimes competing factors means that initial cost is never the only consideration. In some instances we may pay more for higher performing products and services, including those with superior environmental performance. A collateral purpose is to support markets for recycled goods and other environmentally preferable products and services.

#### **Procurement Responsibilities**

The Procurement Department shall-

- 1) Develop and maintain information about environmentally preferable products, recycled products and sustainable services to be purchased and utilized by departments whenever possible;
- 2) Inform departments of environmentally sustainable products and/or services and provide implementation assistance;
- 3) Encourage the use of recycled materials and products by incorporating them in specifications where practicable;
- 4) Recommend departments consider Sustainability as part of its Evaluation Criteria; and
- 5) Require double-sided printing and page limits for submissions when electronic submissions are not practicable.

#### **Department Responsibilities**

Departments should assess environmental preferences early in the acquisition process. Require, whenever practicable, its vendors, contractors and consultants to use environmentally preferable/sustainable products and/or services, as appropriate. Consider buying products and services from vendors who are committed to and share similar environmental requirements and/or have a commitment to the environment.



# San Diego County Regional Airport Authority

## Procurement Department

### SUSTAINABLE STATEMENT & RESOURCE GUIDE

#### For Services

Consider requiring Environmentally Preferable Products (such as re-refined automotive oils and coolants; the use of integrated pest-management, green seal custodian supplies, etc.) to be used by the Services that are solicited.

Agricultural - Diversion of Green Waste and Tree Trimming, Integrated Pest Management; energy efficient sprinkler systems; grass-cycling; composting/mulching; xeriscaping and natural fertilizers; require Services to use Energy Star equipment, drip irrigation; storm water management (NPDES); native climate appropriate plants.

Waste Management – solid waste reduction, hazardous waste disposal.

#### For Products

Consider purchasing products with the highest amount of recycled content, particularly post-consumer material; are remanufactured, refurbished, and minimize environmental impacts, toxics, pollution and hazards to workers and the community to the greatest extent practicable.

- **Fleet** – Tires derived from landfills; retread tires; re-refined oils and coolants for motors and engines; alternative fuels;
- **Lighting** – consider L.E.D lighting (Grants issued from California Public Utilities Commission);
- **Janitorial** – Unbleached janitorial paper products that are processed without chlorine, green cleaning products; and
- **Other** – Purchase furniture, carpeting, and paint that are free of volatile organic compounds (VOC) and won't emit toxic chemicals. Latex paint, interior and exterior, low VOC paints; glass, including windows, fiberglass, insulation and beakers; paper and plastic products; steel; tire derived flooring and mats; less pollutant equipment, vehicles and machinery; water-based cleaning solutions for printers and equipment; Less toxic chemicals; Low/no VOC products; low energy use for lights, appliances and equipment; light colored roofing, recycled content roofing material.

**Consider these attributes when determining whether a product is environmentally preferable:**

Biobased	Made from renewable materials
Biodegradable	Compostable
Carcinogen-free	Low toxicity
Durability	Less hazardous
Bioaccumulative toxic (PBT)-free	Recycled content, Reusable
Chlorofluorocarbon (CFC)-free	Reduced packaging, Refurbished
Heavy metal free (i.e., no lead, mercury, cadmium)	Reduced greenhouse gas emissions
Low volatile organic compound (VOC) content	Energy, Resource and Water efficient



# San Diego County Regional Airport Authority

## Procurement Department

### SUSTAINABLE STATEMENT & RESOURCE GUIDE

#### **Procedural**

When applicable in a solicitation process, request Respondents to describe and demonstrate how its firm conducts and/or promotes the following sustainable practices: Environmental Management; Green/Environmentally-Preferable Purchasing; Alternative Fuel Usage and/or Alternative Fuel Vehicles; pollution prevention; Waste Reduction/Waste Diversion/Recycling; continuous improvement; Leadership in Energy & Environmental Design, (LEED), and transparency in environmental performance.

Request Respondents to demonstrate working knowledge of environmental issues, including but not limited to: sustainability; energy generation, use, and conservation; air quality, climate change and sea level rise; industrial hygiene; storm water; site assessment and remediation of soils, sediments, surface waters and groundwater; and water conservation and management, when applicable.

Additionally:

- Solicitation language and procedures should be reviewed to ensure they do not conflict with the Authority's environmental purchasing policy;
- Consider having your meetings via conference call or online;
- Encourage suppliers and contractors to offer Environmentally Preferable Products at competitive prices;
- Consider including Recycled and Environmentally Preferable Products in your specifications;
- Encourage providers of services to consider environmental impacts of service delivery;
- Consider requiring a provision addressing the environmental impact of the project in your specifications;
- Consider reducing energy/water consumption;
- Purchase from suppliers who offer "take-back" services for their products and packaging at the end of their useful life; and
- Maximize the durability and maintenance of services.



# San Diego County Regional Airport Authority

## Procurement Department

### SUSTAINABLE STATEMENT & RESOURCE GUIDE

#### **Definitions:**

**Ecolabels and Green Stickers** are labeling systems for food and consumer products. Ecolabels are often voluntary, but green stickers are mandated by law in North America for major appliances and automobiles. They are a form of sustainability measurement directed at consumers, intended to make it easy to take environmental concerns into account when shopping. Some labels quantify pollution or energy consumption by way of index scores or units of measurement; others simply assert compliance with a set of practices or minimum requirements for sustainability or reduction of harm to the environment.

**Elemental Chlorine Free (EDF)** means bleaching processes replace elemental chlorine gas with a chlorine derivative as the bleaching agent.

**Energy Efficient Products** meet the US Department of Energy standards as set forth in the Federal Energy Management Program's "Purchasing Specifications for Energy-Efficient Products".

**Energy Star** means the U.S. EPA's energy efficiency product labeling program described at [www.energystar.gov](http://www.energystar.gov).

**Environmentally Preferable Purchasing** is the process of considering a product's environmental impacts in addition to its cost, quality and performance when making a product selection.

**Environmentally Preferable Product** has a lesser or reduced negative effect on human health and the environment when compared with competing products which serve the same purpose. This comparison may consider raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, and disposal of the product. This term includes, but is not limited to, recycled products, recyclable products, low toxicity products, and reusable products.

**Green Seal** is an independent, non-profit environmental labeling organization. Green Seal standards for products and services meet the U.S. EPA's criteria for third-party certifiers. The Green Seal is a registered certification mark that may appear only on certified products.

**Life Cycle Analysis** is the comprehensive examination of a product's environmental and economic effects throughout its lifetime, including new material extraction, transportation, manufacturing, use, and disposal.

**Post-consumer Material** means a finished material which would normally be disposed of as a solid waste, having reached its intended end-use and completed its life cycle as a consumer item, and does not include manufacturing or converting wastes.

**Practicable** means sufficient in performance and available at the lowest responsible bid. Final determination of the practicability of any given product must lie with the users of the product since it is the user who understands the product's performance and the user's budgetary requirements.

**Pre-consumer Material** means material or by products generated after manufacture of a product is completed but not before the product reaches the end-use consumer.

**Recyclable Product** is a product that, after its intended end use, can demonstrably be diverted from solid waste stream for use as a raw material in the manufacture of another product.

**Recycled Product** is a product containing recycled material.





# San Diego County Regional Airport Authority Procurement Department

## SUSTAINABLE STATEMENT & RESOURCE GUIDE

**Recycled Content** is the highest percentage of post-consumer recovered material available in the marketplace and the highest percentage of secondary waste recovered material available in the marketplace.

**Remanufactured Product** means any product diverted from the supply of discarded materials by refurbishing and marketing said product without substantial change to its original form.

**Reusable Product** is a product that can be used several times for an intended use before being discarded, such as a washable food or beverage container or a refillable ballpoint pen.

**Sustainable Purchasing** is the practice of purchasing materials, products and labor in a manner that reflects fiscal responsibility and environmental stewardship.

### For additional information –

Recycled Content Products - [www.calrecycle.ca.gov](http://www.calrecycle.ca.gov)

Agriculture & Landscape	Furniture & Accessories
Automotive & Traffic	Industrial
Clothing & Accessories	Office Equipment & Supplies
Construction	Packaging
Flooring	Paper & Paper Products

Green Products – [www.greenseal.org](http://www.greenseal.org)

Cleaning Products	Hand Cleaners
Electric Chillers	Paints & Coatings
Fleet Vehicle Maintenance	Papers & Newsprint
Floor Care Products	Windows & Doors

[www.responsiblepurchasing.org](http://www.responsiblepurchasing.org)

[www.epa.gov](http://www.epa.gov)

[www.scsglobalservices.com](http://www.scsglobalservices.com)

[www.energystar.gov](http://www.energystar.gov)

[www.buildinggreen.com](http://www.buildinggreen.com) (design & architecture)

[www.chlorinefreeproducts.org](http://www.chlorinefreeproducts.org) (CFPA)

[www.epeat.net](http://www.epeat.net) (for sustainable electronics)

For more information please contact the Authority’s Procurement and Small Business Development Department.



Published by [Jennifer Armour](#) at 2017-02-10



When arriving at SAN, one of the first things people notice are our beautiful palm trees. We have over 600 of them – a mix of Queen, Medium Fan, Mexican Fan and Date – on the airport's grounds. And while we are delighted that the palms have become visually synonymous with a warm and wonderful San Diego vacation – there is more to these lanky and lush plants than meets the eye.

Once established, palm trees don't require a lot of water. And that is important because while drought conditions have improved in the region, future weather patterns remain unknown. At SAN, part of our established sustainability plan for the future includes implementing water-saving landscape design and irrigation.

In 2015, we converted different areas of the airport over to drought-tolerant landscaping, also known as xeriscape. One of the biggest projects included turf installation covering 10,094 square feet.

Prior to changing the landscaping, water usage in this area measured 512 gallons per watering cycle. Since installing the xeriscape, the water usage has dropped to 159 gallons per watering cycle. That's an area water usage savings of 69 percent.

How do we know when to water? The airport's state-of-the-art system collects and analyzes data from multiple weather stations to determine watering needs. This saves approximately 9 million gallons of water in unnecessary irrigation each year.

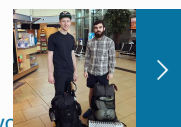
So the next time you land at SAN, when you see our beautiful palms, in addition to taking a deep cleansing breath because you have arrived – you can also breathe a bit easier knowing that sustainability is at work.

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Published by  [Katie Altobello-Czescik](#) at  2017-05-26



## Looking for ways to go green on your next trip through SAN?

At San Diego International Airport (SAN), we are committed to sustainability and to helping you reduce your environmental footprint. Check out these six ways you can travel sustainably:

### **Carbon Offset Your Travels.**

Keep your carbon footprint in check with [The Good Traveler](#) program. The Good Traveler allows you to purchase a certified carbon offset that will offset the environmental impact of your journey. Visit The Good Traveler website to calculate your travel distance and to purchase an offset. Just \$2 offsets 1,000 miles of flying or 400 miles of driving – that's 344 pounds of carbon dioxide equivalent.

### **Visit a Green Concession.**

Check out one of our certified [Green Concessions](#) located throughout the Terminals!

### **Take Public Transit, Use Ride Share.**

SAN is accessible by Amtrak and Coaster, city bus, trolley, and ride share services. Keep in mind that Palm Street, which connects rail users with the Trolley to Terminals shuttle, is closed for construction through June 19, 2017. You can learn more about public transit options at [san.org](http://san.org).

### Reuse, Refill, Refresh

Save money and the planet by refilling your bottle post-security. Empty your liquids before security in one of our mobile liquid collection units or bring an empty reusable water bottle through security. You can fill up at one of our convenient water bottle refilling stations throughout the terminals.

### Recycle Right.

There are over 1,000 recycling containers throughout the airport. Make use of them and throw all of your recyclables, including your plastic bottles, glass, mixed paper and paper products, cans, foil, and rigid plastics, inside the same bin.

### Go Paperless. Go Green. Get GOing.

- Many airlines offer the ability for you to use a mobile boarding pass. Save the paper, and the ink, and get to where you're headed.
- Bring your eReader on your trip. TSA Tip: electronic items smaller than the standard sized laptop do not need to be removed from your bag or their cases at security.
- Opt to use our hand dryers instead of paper towels. Efficient and hygienic, hand dryers are located in most restrooms throughout the terminals.

Visit the new [Sustain.San.Org](http://Sustain.San.Org) website to learn more about all of SAN's sustainability initiatives.

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Published by  [Katie Altobello-Czescik](#) at  2017-07-21



## SAN Launches Green Concessions Program

Imagine as a passenger you stroll through the terminals looking for an environmentally-friendly business to eat or shop at. You spot a green concession sign, walk into a storefront, and find efficient appliances, healthier products, and ease of mind knowing you made a greener choice that day. Now that can be reality while traveling through SAN!

At SAN we're always looking for ways to engage our tenants to participate in our sustainability initiatives. In July 2017, SAN launched the [Green Concessions Program](#) to provide education and support to Concessionaires actively pursuing excellence in terms of environmental, social, and financial objects.

This voluntary rewards and recognition program provides opportunities for our concessionaires to receive training, marketing and promotional opportunities, and technical consulting for their green business practices. Concessionaires receive education and resources so they can enact best practices and in return have access to a resource library and receive recognition through window decals, certificates, and other promotional opportunities.

Concessionaire partners in the program also benefit from more efficient business operations, reduced business costs, improved employee health and morale, and increased marketing and awareness of green practices.

Passengers will have access to healthier foods, environmental packaging, and purchasing power. For the Airport, the Green Concessions program was identified as a priority action in both the Strategic Energy Plan and Water Stewardship Plan as a way to engage tenants in lowering SAN's utility usage and costs. The program will reduce on-site energy, water, and waste consumption resulting in reduced operating costs and a healthier environment for those we serve.

Nine initial concession storefronts were recognized for their program participation at the Airport Authority's All Concessions Meeting on July 12<sup>th</sup>.

**Next time you're at SAN, be sure to visit our first certified [Green Concessions!](#)**

- Brighton (Terminal 2)
- Einstein Bros Bagels (Terminal 1 and 2)
- Pannikin Coffee & Tea (Terminal 2)
- PGA Tour Grill (Terminal 2)
- PGA Tour Shop (Terminal 2)
- Saffron Thai (Terminal 2)
- Stellar News (Terminal 2)
- Stone Brewery (Terminal 2)

**Visit the new [Sustain.San.Org](#) website to learn more about all of SAN's sustainability initiatives.**

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Published by  [Katie Altobello-Czescik](#) at  2017-08-29



## Community Connection and the Trolley to Terminal Shuttle Service

In July, the airport launched its latest [Sustainability Report](#) on [sustain.san.org](#), sharing financial, social, and environmental activities and accomplishments from 2016. Dedicated to being a good community partner, the airport shows its commitment through volunteer work, the creation of opportunities for small and local businesses, continuing to grow air service, and even finding sustainable ways for travelers to access the airport.

Did you know that:

- San Diego International Airport (SAN) contributes approximately \$10 billion annually to the region in economic benefit
- The Airport Authority spends nearly \$260 million annually to improve and maintain airport infrastructure through its Capital Improvement Program
- The Airport Authority procured approximately \$100 million in services and supplies from local businesses

Here at the Airport Authority, we are committed to providing convenient options for travelers and the community [to get to and from SAN](#). One example is the airport's convenient Trolley to Terminal shuttle service – it's quick, easy and affordable!

Here's how it works:

### [Getting to the airport with Trolley → Terminal](#)

1. Take the Green Line trolley and exit at Middletown Station



2. Walk one block southwest on W. Palm Street (cross Pacific Highway and Admiral Boland Way)
3. Wait at the blue shuttle stop on Admiral Boland Way (arriving every 15 minutes)
4. Take the blue shuttle marked with the Trolley → Terminal logo and exit at either Terminal 1 or 2

Check out our [video](#) on getting to the airport

Leaving the airport with Trolley → Terminal

1. Walk to the Terminal 1 or Terminal 2 transit island
2. Hop on the blue parking shuttle marked with the Trolley → Terminal logo
3. Get off the shuttle at the W. Palm Street stop
4. Walk one block to the Middletown Station by heading northeast on W. Palm Street (cross Admiral Boland Way and Pacific Highway)
5. Hop onto the Green Line trolley

It's that easy!

Get real-time shuttle bus location information at [sdacepublic.etaspot.net](http://sdacepublic.etaspot.net) or on the ETA Spot app and get going!

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SAN Launches Green Concessions Program

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Published by [Katie Altobello-Czescik](#) at 2017-09-19



## #SANOKTOBERFEST

Eat, drink, save and be merry! Join SAN as we celebrate Oktoberfest in terminals—GOing On now until October 3<sup>rd</sup>! Check out the Airport's promotions, food and drink specials, and beer garden!

Eat, shop, and save big with concession deals, coupons, and promotions and get some SAN swag. **Spend \$99 at any of our participating restaurants and receive a free growler! Spend \$25 at any of our participating retail shops and receive a free t-shirt.**

Make a sustainable choice when celebrating Oktoberfest and visit our participating [Green Concessions](#). At SAN we are taking sustainability to new heights with our new Green Concessions program. Green Concessions help reduce airport water and energy use, minimize waste, educate consumers on sustainability, and adopt green business practices.

**Prost and enjoy cheap eats from our participating Food and Beverage Green Concessions:**

- Einstein Bros. Bagels-Terminal 1, Gate 3 and Terminal 2, Pre-Security-Pretzel Bagel With a Beer and Cheese Spread
- Pannikin Coffee and Tea-Terminal 2, Gate 38-Pumpkin Cinnamon Roll, Pumpkin Muffin, Pumpkin Late

- Saffron Thai-Terminal 2, Sunset Cove-Pumpkin Kabocha Curry
- Stone Brewing Co-Terminal 2, Gate 36-Chicken Schnitzel

**#ShopSAN and receive SAN Oktoberfest swag from our participating Retail Green Concessions:**

- Bay Books of Coronado-Terminal 1, Pre-Security
- KUSI News-Terminal 1, Gate 18
- Stellar News Express-Terminal 1, Pre Security
- Brighton Collectibles-Terminal 2, Sunset Cove
- Hudson News-Terminal 2, Gate 37
- PGA TOUR Shop-Terminal 2, Floor 2 Security Corridor

For more information on SAN Oktoberfest and a list of all participating locations, please visit [san.org/oktoberfest](http://san.org/oktoberfest).

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Published by  [Katie Altobello-Czescik](#) at  2017-10-11



## Airport Authority Employees Have a Sustainable September

Did you know that San Diego International Airport is one of the greenest airports in the world? We take sustainability seriously by committing ourselves to waste reduction and recovery, biodiversity, enhanced air quality and reduced emissions, and many more environmental initiatives. Ever wonder how we walk the walk?

This September, the 400+ Airport Authority employees participated in three green events learning about and improving our environmental impact!

### Lunch and Learn

On September 12<sup>th</sup>, Airport Authority employees were invited to attend a Waste Diversion Lunch and Learn. Employees acquired knowledge about the zero waste lifestyle and proper waste diversion. They also received tips on how to live a healthier, more sustainable lifestyle. Employees received reusable aluminum straws to cut down on the amount of single-use plastic straws at the Airport.

### CA Coastal Cleanup Day

On September 16<sup>th</sup>, Airport Authority employees joined the public in helping clean up Spanish Landing Park through a partnership with I Love A Clean San Diego. Sixty-one volunteers from the airport and the community picked up 300 pounds of debris in three hours (147 pounds were recycled)! Some of the items we found? A quarter of a mouth of dentures, a pair of steel toed boots, and baby toys floating in the water. Volunteers learned about the negative impacts of trash on wildlife, received reusable straws, and helped keep San Diego Bay beautiful.

### Sustainability Fair

On September 29<sup>th</sup>, the airport held its semi-annual Sustainability Fair. At no cost, all airport employees, tenants, and volunteers could properly dispose of their electronic and universal waste and donate unwanted items to Goodwill. Fair visitors enjoyed exhibitor booths hosted by SDG&E, SANDAG, TechniArt Lighting, and I Love a Clean San Diego. Over 10,000 pounds of e-waste was collected and will be recycled!

Are you interested in finding out more about our sustainability initiatives? Check out our sustainability report at [sustain.san.org](http://sustain.san.org) or read more at [san.org/green](http://san.org/green).

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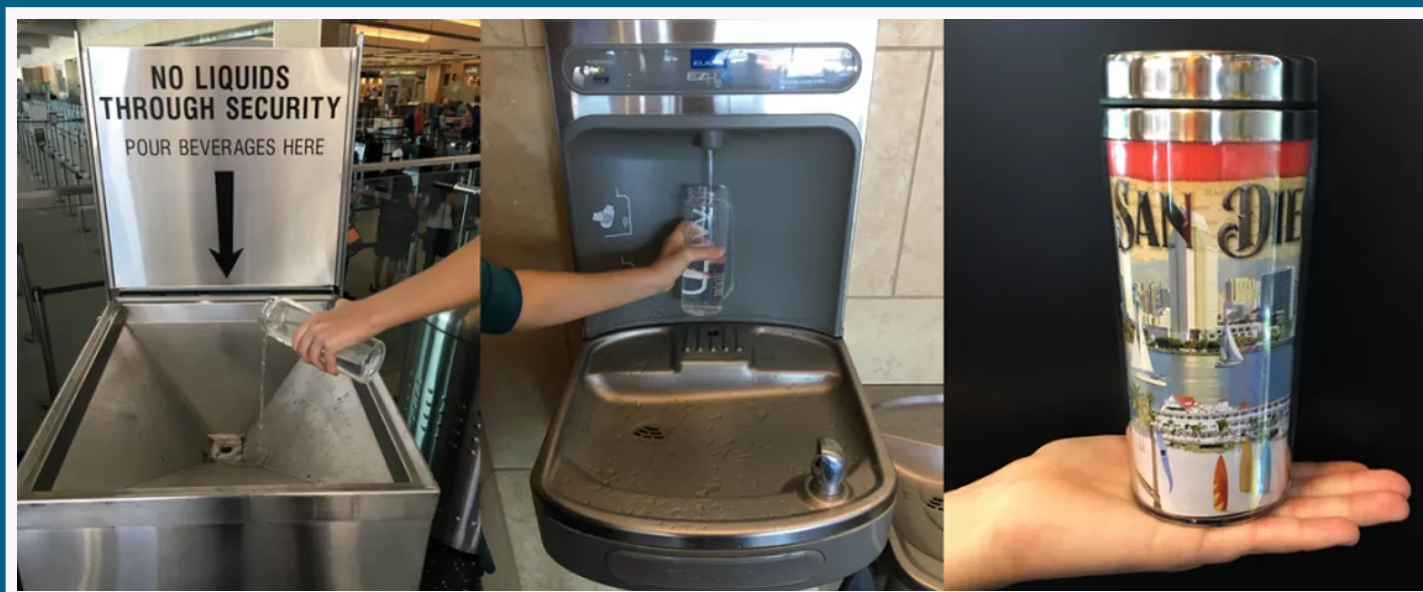
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Published by  [Katie Altobello-Czescik](#) at  2017-12-06



## Fly Dry and Reduce Plastic

In May, we highlighted [how you can travel sustainably](#) through San Diego International Airport (SAN). We want to take a deeper dive and show you how to “fly dry” while also reducing and recycling plastic.

### Fly Dry – Dump Your Liquids

Before each of the security checkpoints, passengers have access to our dump sinks: large collection boxes made specifically to help you dump your liquids before security. Before you go through the line, dump your liquids and carry the empty container through. You can refill inside. If you’re done with your beverage container and would like to dispose of it, dump the liquid first, then place the empty container into the recycling can. Liquids can contaminate our recycling loads. We are working to improve our recycling rate – embracing the “reduce, reuse, recycle” mantra.



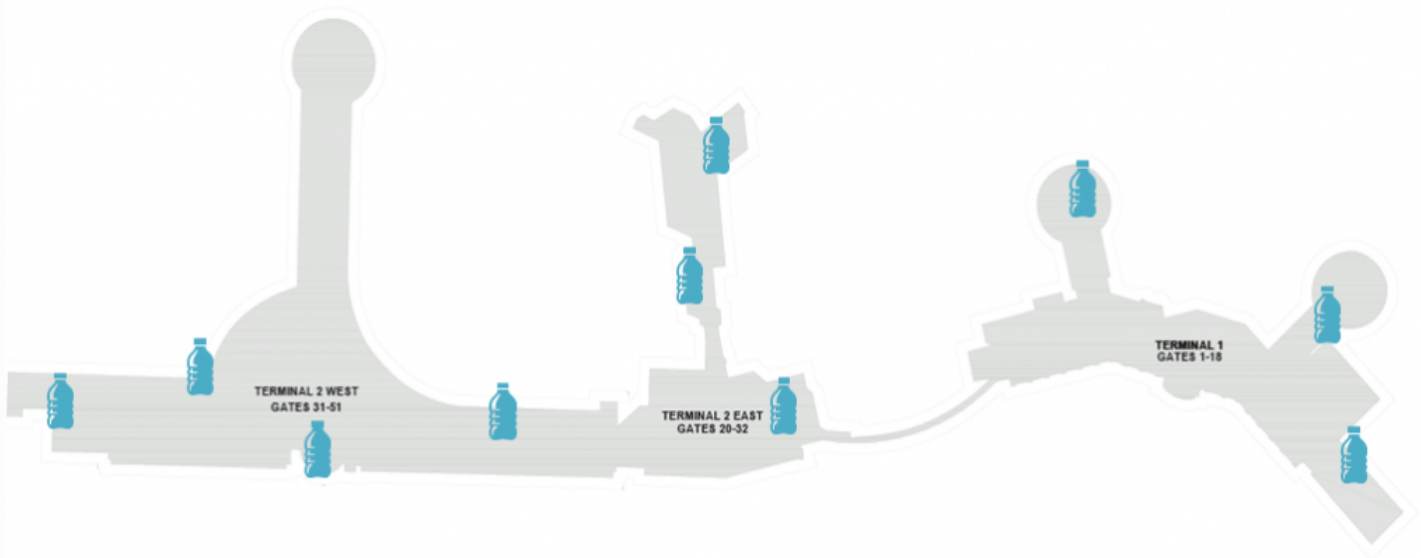
### Bring an Empty Reusable Water Bottle through Security

Did you know that a reusable water bottle can save you almost \$600 a year? You can reduce your single-use plastic consumption and costs by investing in a reusable water bottle. You can bring an empty one through security no problem. Don't have a reusable water bottle yet? #ShopSAN and visit one of our many [Green Concession](#) stores that sell them. In Terminal 1, try [Hudson News](#) or [Stellar News](#). In Terminal 2, try [Hudson News](#), [Stellar News](#) or [Old Town News and Market](#).



### Refill & Refresh

Visit one of our refill stations or water fountains located in each terminal to fill up your bottle. You can also ask one of our food and beverage locations to refill with filtered water. Fountains are located near gates 2, 21, 24, 28, 34, 46, 48, 49.



## Re-Boost

Need a pick me up after all this? Grab some organic coffee or tea from Ryan Bros Coffee in [Terminal 1](#) or [Terminal 2](#); or [Pannikin Coffee & Tea](#) in Terminal 2. You can recycle the paper cups, paper sleeves, and plastic lids. Just make sure to dump the liquid before you put the items into the blue recycling bin! You can do even better by using a reusable mug! [Stellar News](#) in Terminal 2 and [Hudson News](#) in Terminal 2 are some of the Green Concessions that have stylish and reusable travel mugs and tumblers to help you out.



## Rethink



By traveling sustainably, you can save money, help the environment, and support SAN's green efforts. San Diego International Airport recently signed an [Airports Sustainability Declaration](#) (PDF download) that's aligned with the United Nations [Sustainable Development Goals](#). The Declaration, which is voluntary and non-binding, calls for airports to develop, implement, and expand initiatives that improve the sustainability and resilience of airports and their surrounding communities. We're dedicated to responsible consumption and helping our businesses and passengers reduce and recycle waste.

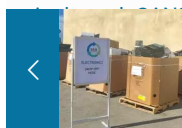
For more information on SAN's sustainability strategies, check out our [Sustainability Report](#).

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January 2017

Greetings SDCRAA Employees!

Happy New Year! We are excited to announce that the Authority will be hosting two Sustainability Fairs in 2017. These Sustainability Fairs will include electronic and universal waste collection, in addition to other opportunities to give back to the environment and our community. Mark your calendars for **Friday, April 21 & Friday, September 30, from 9:00 am to 3:00 pm, behind the Facilities Management Department building located at 2415 Winship Lane.** Look for the event flyer for more details.

As we look back on 2016, we are proud of the amount of electronic waste that the airport has diverted from the landfill. At the two events that were held SAN and SDCRAA employees collectively recycled 9,735 pounds of electronic waste. In addition, the Authority's Procurement Department recycled 6,413 pounds. In total we recycled **8 tons!**

Thank you for all your participation and we look forward to collecting and recycling more in 2017! If you have any questions please contact Mayra Garcia at (619) 400-2795 or [migarcia@san.org](mailto:migarcia@san.org).

Until next month,

The Green Flash

*The Green Flash is the Environmental Affairs Department's quick monthly e-bulletin and supports our Employee, Community, and Customer Strategies.*

# THE GREEN FLASH

QUICK GREEN UPDATES FROM THE ENVIRONMENTAL AFFAIRS DEPARTMENT

February 2017

Greetings SDCRAA Employees!

Last week, the California Department of Pesticide Regulation recognized the Airport Authority, along with almond and cherry growers and vineyards, with an Integrated Pest Management (IPM) Achievement Award in Sacramento. The Airport's IPM Program has been successful in solving pest problems while minimizing risks to people and the environment. Over 900 inspections are conducted monthly and continual education and prevention are key components.

IPM aims to control pest population by using alternative methods to pesticides, and using pesticides and chemicals as a last resort. In order to survive, pests and rodents need the same three things that you do: food, water, and shelter the easiest way to manage pest is by taking away their food, water, and available space for shelter. Please help us by keeping your work areas clean, pick up food waste and trash, and keep lids on all trashcans. Report any IPM concerns to Rick Adcock, Sr. Environmental Specialist at [radcock@san.org](mailto:radcock@san.org) or mobile (619) 889-5571.

Enjoy the video that was presented at the awards ceremony: [Airport IPM](#)



Accepting the award are (front row, left to right): Richard Gilb, Rob Cartwright, Francisco Moreno, and (back row, left to right) Don Lumb, Gregg Segel, Randy Hoffman, Jim Patterson, and Trent Polcyn.

Until next month,

The Green Flash

# THE GREEN FLASH

QUICK GREEN UPDATES FROM THE ENVIRONMENTAL AFFAIRS DEPARTMENT

March 7, 2017

Greetings SDCRAA Employees!

The sun has been shining this past few days, and we are excited to share that the north side solar facility is now generating 2.2 megawatt of 'clean' electricity and, combined with other recent onsite solar projects, will provide approximately 20% of the Airport's annual energy needs. Solar energy is an integral part of the Airport Authority's Strategic Energy Plan and is critical to controlling SAN's long-term utility costs, while reducing its greenhouse gas emissions. The Strategic Energy Plan established five key goals for the airport regarding: 1) energy efficiency and conservation; 2) energy interdependence; 3) carbon neutrality; 4) cost containment; and 5) regional and industry leadership.



The above are some of the photovoltaic panels at the north side solar facility in the Economy Parking Lot. On a similar note, the Rental Car Center was designed and built with sustainable strategies and achieve Gold LEED certification. As a 24-hour, 365-day-a-year operation, the lighting was designed to be energy efficient by reducing lighting levels in some areas during off-peak times. The facility's energy efficient design also earned a \$150,000 incentive from San Diego Gas & Electric by achieving an annual energy savings of over 2 million kilowatt hours (kWh) – equivalent to powering more than 300 homes for a full year!

Mark your calendars for upcoming free events during April's Earth Month! Spring clean your living spaces of unwanted e-waste and bring your donations to the **SAN's Sustainability Fair**, Friday, April 21, 2017, from 9 am – 3 pm, behind the Facilities Management Department administration building - 2415 Winship Lane.

You can also volunteer at the **15th Annual Creek to Bay Cleanup**, Saturday, April 22, 2017, from 9am – 12 noon The Airport Authority will be sponsoring a site at Spanish Landing. Registration will open on April 1: [www.creektobay.org](http://www.creektobay.org)

And you can also properly dispose of unwanted medication at the **National Prescription Drug Take-Back Day**, Saturday, April 29, 2017, from 10 am – 2 pm, visit: [https://www.deadiversion.usdoj.gov/drug\\_disposal/takeback/index.html](https://www.deadiversion.usdoj.gov/drug_disposal/takeback/index.html)

Until next month,

## The Green Flash

*The Green Flash is the Environmental Affairs Department's quick monthly e-bulletin and supports our Employee, Community, and Customer Strategies.*



Greetings SDCRAA Employees!

Every day is Earth day! But April is the month that we celebrate Earth, and the Airport Authority is hosting events to celebrate and help protect our home. This month we can focus on small (free) things we can do to ensure this planet stays beautiful for our future generations.

Join us at the Sustainability Fair on Friday, April 21<sup>st</sup> from 9AM to 3PM in the parking lot behind the Facilities Management Department (FMD) building on 2415 Winship Lane (see attached flyer). The Sustainability Fair will be providing a variety of drop-off and information booths for all airport employees to learn from – and there will be free coffee (bring your own reusable mug), donuts & giveaways! The organizations on hand will include:

- IMS Recycling Inc. & Ocean Blue Environmental Services, Inc. will collect your electronic and universal waste (see attached list of acceptable items),
- Goodwill will collect donations of gently used clothing and home goods,
- SDG&E will share energy efficiency and conservation tips,
- TechniArt will be selling discounted LED lightbulbs,
- Center for Sustainable Energy (CSE) is offering a no-cost Home Energy and Water Tune-Up. A Home Energy Coach from CSE will come to your home to assess your energy and water use, find out more by visiting their booth!

Help keep San Diego Bay beautiful and pristine by participating in the “Creek to Bay Cleanup” on Saturday, April 22<sup>nd</sup> from 9 AM till noon. The Airport Authority will be hosting a site again at the Point Loma Spanish Landing Park East site, where we hope you will come join us to remove trash from San Diego’s coastline. The event, organized by I Love a Clean San Diego, helps to bring employees and families together to show community pride, learn about negative impacts of trash on wildlife, and have fun! Find out more information on their [website](#) and register for the airport’s cleanup site by clicking [here](#).

April 1st also marks the beginning of the California Least Tern Season! For those who have not been on a tour of the least tern nesting site and would like to learn more about this endangered species and what you can do to protect them, please contact Mayra Garcia ([migarcia@san.org](mailto:migarcia@san.org)) for a summer tour.

Until next month,

The Green Flash

*The Green Flash is the Environmental Affairs Department's quick monthly e-bulletin and supports our Employee, Community, and Customer Strategies.*



May 2017

Greetings SDCRAA Employees!

May is National Bike Month and there are exciting events happening that encourage biking as a viable, fun, and healthy transportation choice for all types of trips. Bike to Work Day (one of the biggest Bike Month events) was created in 1956 to increase public interest in biking and promote it as an alternative for commuting to work. This year's Bike to Work Day will take place on Thursday, May 18<sup>th</sup>; join thousands of commuters throughout San Diego on the morning of **May 18<sup>th</sup> from 6am to 9am**. There are over 100 pit stops scattered throughout the region (please see the map [here](#)) that will be passing commemorative t-shirts (to those who registered), snacks, giveaways, and offer encouragement along your commute. Register at [iCommuteSD](#).

Once again this year the Airport Authority will be hosting one of these pit stops, located at intersection of N. Harbor Dr. and Harbor Island Dr. along the bike path north of the Harbor Police Station. Contact Brett Caldwell if you wish to volunteer at the pit stop [bcaldwel@san.org](mailto:bcaldwel@san.org).

This year there will be a Facebook photo promotion, enter @iCommuteSD by midnight on Sunday, May 21, in three categories:

1. Favorite bike commuter
2. Favorite bike commuter group
3. Favorite pit stop



Mark your pit stop photo with #BTWDpitstop, and encourage all your colleagues to enter and vote during the week of May 22 through 26!

Come out and celebrate this annual Bike to Work Day with the Airport Authority and support biking to the airport an environmentally friendly, cost-effective commute choice! More information on Bike to Work Day and Bike Month events, please go to this website.

Until next month,

The Green Flash

*The Green Flash is the Environmental Affairs Department's quick monthly e-bulletin and supports our Employee, Community, and Customer Strategies.*



June 2017

Greetings SDCRAA Employees!

It's time to answer the Energy Hero Call to Action! Energy Upgrade California has made it easy for you to explore ways to reduce your carbon footprint at home. Visit the Energy Upgrade California [Energy Upgrade California Movement page](#) to sign the Energy Hero pledge and to choose from 24 unique ways that you can save energy. You can learn how to make a difference at home by saving energy and reducing your carbon footprint. Californians are leading the way in energy efficiency and you can join by upgrading your daily habits, gadgets and electronics, heating and cooling, and water-use habits. Commit to things like switching off lights, unplugging the chargers, and shopping wisely. Once you check off a number of commitments, you can take the pledge to be an energy hero for California!

**Want some more ideas on how to save energy at work while at SAN?**

- Turn off your monitor, computer, cubicle lights, and power strips each night or when not in use,
  - Just be sure to check there are no conflicts for scheduled software installation,
- Take the stairs,
- Turn off lights when you leave a conference room or office,
- Use less hot water,
- Use natural light,
- Close the blinds when it's hot to keep heat out and open the blinds when it's cold to let heat in.

**Mark your calendar! I Love a Clean San Diego is hosting the 2<sup>nd</sup> Annual Zero Waste Fair on Saturday, June 17<sup>th</sup> from 10 am to 1:00 pm at the Ocean Knoll Farm in Encinitas.** This is a free family event where you can stroll through a variety of educational booths and activity stations, and learn more about how to implement zero waste practices in your daily routine. Learn more and register here:

<http://www.ilacsd.org/event/2nd-annual-zero-waste-fair/>

Until next month,

The Green Flash

*The Green Flash is the Environmental Affairs Department's quick monthly e-bulletin and supports our Employee, Community, and Customer Strategies.*



July 10, 2017

Greetings SDCRAA Employees!

Did you know SAN is one of the most productive breeding sites for a very special endangered species? That's right! The California Least Tern (CLT) nests on our campus every summer!

As of July 4th, there were 24 nests located at the airport. Over the last few seasons, the survival of the CLT has been impacted by El Nino—as increased water temperatures have led to a decline in the Least Terns' food sources. Looking forward, close collaboration between Airport Authority departments, tenants, and state and federal wildlife agencies will continue to ensure protection of the CLT.

Last month the Environmental Affairs Department hosted tours of the CLT nesting site at the Airport. Over 30 employees, interns, and veteran fellows joined in on the fun. [Click here](#) to learn more about the CLT.





“I really enjoyed the opportunity to go out to the airfield and be able to see active nests, eggs, and fledglings. It’s amazing to see how the endangered species has continued to make the airport home and what the authority along with biologists are doing to conserve and protect the CLT.”

-Iris Pena-Franco, EAD Intern

Until next month,  
The Green Flash

*The Green Flash is the Environmental Affairs Department’s quick monthly e-bulletin and supports our Employee, Community, and Customer Strategies.*



August 3, 2017

Greetings SDCRAA Employees!

**The latest Sustainability Report is now live on the new [sustain.san.org](http://sustain.san.org) website!** The report covers SAN’s financial, social, and environmental activities and accomplishments. Some highlights from the 2016 report include:

- SAN contributes about \$10 billion annually in economic benefit to the region.
- The Authority spends ~\$260 million annually on infrastructure through its CIPs and in 2016 procured ~\$100 million of services and supplies from local businesses.
- Between calendar years 2014 and 2015 the Authority reduced total Green House Gas emission from sources under its control by 0.5% while growing operations and profit.
- SAN was recognized by SDG&E as an “Energy Showcase Grand Champion” and by the California Environmental Protection Agency for the “Governor’s Environmental and Economic Leadership Award.” SAN also was certified through the Airports Council International’s Airport Carbon Accreditation program.
- SAN’s Good Traveler program, which provides an opportunity for passengers and others to balance the impact of their flight, successfully offset over 11 million air miles.

At SAN, sustainability is founded on the concept of a “triple bottom line”—measuring success through a people-planet-profit lens – as our Sustainability Report demonstrates.

**Take a page from our book and conserve water at home with rain barrels!**

Take advantage of [Solana Center’s discount rain barrels](#) and apply for your [SoCal WaterSmart rebate!](#) With the discount and rebate you can get your barrels for just \$55 (retail \$130). Get them now before they’re gone and be prepared for the rainy season!

**Mark your calendars** for the Airport’s Sustainability Fair happening on **Friday, September 29<sup>th</sup> starting at 9am to 3 pm in the parking lot located behind the Facilities Management Department administrative offices.**

Until next month,

The Green Flash

*The Green Flash is the Environmental Affairs Department’s quick monthly e-bulletin and supports our Employee, Community, and Customer Strategies*



Greetings SAN Employees!

Get ready for a sustainable September! The Planning and Environmental Affairs Department has three awesome ways you can GO Green this month!

**Electric Vehicle Day-Sept 9<sup>th</sup>, 10am-3pm, Qualcomm Stadium (9499 Friars Rd)**

Test-drive an electric vehicle (EV) or bring your own at San Diego's largest gathering of EVs and experience what going electric feels like! You can learn how easily EVs charge, about SDG&E programs, and how to take advantage of generous State and Federal EV incentives. It's free & open to the public! [Registration](#) is not required, but it is recommended.

**Annual California Coastal Cleanup Day-Sept 16<sup>th</sup>, 9am-12pm, Spanish Landing East**

Join the Airport Authority and I Love a Clean San Diego in cleaning up Spanish Landing Park (3680 North Harbor Drive). Bring your family and friends, wear closed-toed shoes, and if possible, bring your own reusable supplies (buckets & gloves). It's free! Sign up on [LMS](#) by viewing the training catalogue, searching for volunteer opportunities, and registering for the cleanup. You will receive volunteer credits with the Authority and help the environment!

**"Rethink, Reduce, Reuse, Recycle" Sustainability Fair, Sept 29<sup>th</sup>, 9am-3pm, FMD**

Bring in your unwanted electronics, lightbulbs, batteries, and clothing donations to the Airport's FREE Sustainability Fair! Enjoy exhibitors, free electronic recycling/disposal, discounted LED lightbulbs, free donuts and coffee (bring your own mug), and giveaways! You can bring in items from work or home and no registration is necessary. For more information, contact Mayra Garcia at [migarcia@san.org](mailto:migarcia@san.org) or 619.400.2795.

This September, learn, GO green, and make a difference. Click on the attached pdf for more information on each of the Sustainable September events!

Until next month,

The Green Flash

*The Green Flash is the Planning and Environmental Affairs Department's quick monthly e-bulletin and supports our Employee, Community, and Customer Strategies.*



Greetings SDCRAA Employees!

Are you ready to Go Green and Save Green Next Week, during National Rideshare Week starts next **October 2 – 6**. When you [pledge to go green](#), save green with a carpool, vanpool, or transit commute, you'll automatically have a chance to win prizes from iCommute. Please be sure to use your san.org email address when signing up for this event.

Uber and iCommute are teaming up to help make it easy for you to try a carpool commute during National Rideshare Week. Use code **SDCOMMUTE** to try uberPOOL, and you'll get \$5 off up to three rides between 6 – 9 a.m. and 3 – 7 p.m., October 2-6! The SANDAG iCommute program has resources to help you go green, save green: find a carpool or vanpool to share your commute costs or plan your transit route to help reduce greenhouse gas emissions in your community.

**Did you know that you can use alternative transportation all year long with the Authority's Commuter Transportation Benefit, and can enroll or make changes at any time during the year!**

The Authority's Commuter Transportation benefit is available by enrolling in the Compass Pass Program. The Compass Pass Program allows the employee to pay for their monthly commuter pass on a pre-tax basis through payroll deductions at 50% of the cost. The employee portion of the payroll deduction will occur on the 1st pay period ending date in the month the Compass Pass is effective. For more information on this benefit and to access the enrollment form visit: ECMS>\*Employee Reference Guide\_2017> [Commuter Pass Program](#). Or you can complete the attached enrollment form and email it to [Ask-Ben@san.org](mailto:Ask-Ben@san.org) prior to the 15th of each month to be processed for the 1st of the following month.

If you have any questions, contact Brett Caldwell at x2482 or [bcaldwel@san.org](mailto:bcaldwel@san.org), or visit the [Rideshare web page](#), or call 511 and say "iCommute."

Until next month,

The Green Flash

*The Green Flash is the Planning and Environmental Affairs Department's quick monthly e-bulletin and supports our Employee, Community, and Customer Strategies.*



November 1, 2017

Greetings SDCRAA Employees!

In this month's Green Flash read about recent, current, and future happenings from the Planning and Environmental Affairs Department.

**In the Past-ACA Accreditation & Sustainable September:**

SAN was recently re-certified at "Level 2," in the [Airport Carbon Accreditation](#) (ACA) program! At SAN, we are actively implementing a carbon management plan to reduce carbon emissions under our control. The ACA program, which is administered by Airports Council International, provides a framework to help airports identify, manage, and ultimately reduce their carbon emissions. ACA serves as a tool and independent certification to ensure reductions in environmental impact. To date, there are only 23 airports in North America that have been successfully certified through the program



Thank you to those employees who participated in our Lunch and Learn, Coastal Cleanup Day, and Sustainability Fair in September! At Coastal Cleanup Day we were able to remove 300 pounds of debris from Spanish Landing in just 3 hours! At the Sustainability Fair, we collected over 10,000 pounds of electronic waste from Airport employees, volunteers, and tenants! Way to Go Green!

**The Present-Get Ready for the Rainy Season!** Purchase your discounted rain barrels now by taking advantage of [Solana Center's discounted rain barrels](#) and apply for your [SoCal Water\\$mart rebate!](#) With the discount and rebate you can get your barrels for just \$55 (retail \$130). Get them now before they're gone!

**The Future-America Recycles Day:** [America Recycles Day](#) is November 15<sup>th</sup>! Keep America Beautiful by learning about what materials are collected for recycling here and at home, by reducing the amount of waste you produce, and by recycling right! Take the [#BeRecycled Pledge](#) and challenge yourself to recycle some new items like shampoo bottles, single use plastic bags (at the grocery store receptacles), and unwanted mail.

Until next month,

The Green Flash



December 1, 2017

Greetings SDCRAA Employees!

SAN continues to commit to sustainability! Last month, San Diego International Airport officially signed the 'Airport Sustainability Declaration' at the Airports Going Green Conference in Dallas. The Declaration calls for airports to develop, implement, and expand initiatives that improve the sustainability and resilience of airports and their surrounding communities.

The Declaration promotes collaboration, transparency, innovation, and engagement and encourages partnerships between airports worldwide. It is also aligned with the efforts of the [UN Sustainable Development Goals](#). In October, the Authority Board approved signing the declaration.

SAN is already implementing many policies and projects that support the Sustainability Declaration and its principles. We are as excited as ever to plan and build an enduring and resilient, customer-focused enterprise by effectively managing our financial, social, and environmental risks, obligations, and opportunities.



As we close calendar year 2017, we would like for your to join us on the Authority "Lunch and Learn" happening on Tuesday, December 12th from 12-1pm in the CT2 Orville & Wilbur Conference Rooms. Learn about alternative transportation options and ways to save money while commuting. RSVP to Paula at [paulam@san.org](mailto:paulam@san.org) to reserve your spot and to receive free lunch.

**We thank everyone for their contributions to our efforts during 2017!**

Until next year,

The Green Flash

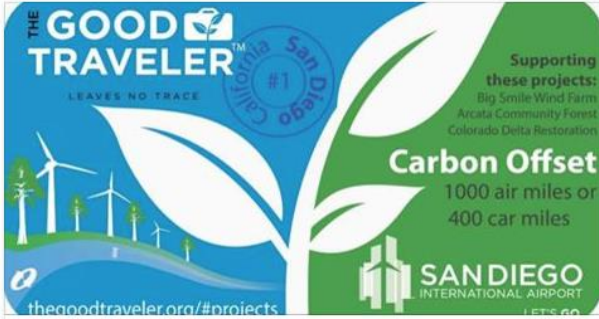
*The Green Flash is the Planning and Environmental Affairs Department's quick monthly e-bulletin and supports our Employee, Community, and Customer Strategies.*



San Diego International Airport

Published by Jennifer Armour [?] · January 11 at 10:02am ·

"The Good Traveler Program works because it is simple, affordable and meaningful."



### Can your next flight help save the Earth?

If minimizing your environmental impact is on the agenda for 2017, several West Coast airports are eager to help you get started.

USATODAY.COM



San Diego Airport @SanDiegoAirport · Jan 10

.@GoodTravelerLNT provides an easy, affordable and meaningful way to balance the impact of your #travel: [thegoodtraveler.org](http://thegoodtraveler.org) [pic.twitter.com/CuSGutFXLY](http://pic.twitter.com/CuSGutFXLY)

[View Tweet activity](#)



San Diego Airport @SanDiegoAirport · Jan 18

Twenty North American airports have achieved Airport Carbon Accreditation. We are proud to be among them: [bit.ly/2f9Vxe2](http://bit.ly/2f9Vxe2) [pic.twitter.com/obPsoBN3oX](http://pic.twitter.com/obPsoBN3oX)

[View Tweet activity](#)



San Diego Airport @SanDiegoAirport · Jan 24

As the first LEED Platinum certified commercial airport terminal in the world, we're serious about #sustainability [sustain.san.org](http://sustain.san.org) [pic.twitter.com/xj1hcQTwzs](http://pic.twitter.com/xj1hcQTwzs)

[View Tweet activity](#)



San Diego Airport @SanDiegoAirport · Jan 3

"With every mile we offset, we're making a tangible contribution to the fight against climate change": [travelweekly.com/Travel-News/Ai...](http://travelweekly.com/Travel-News/Ai...)

[View Tweet activity](#)



San Diego Airport @SanDiegoAirport

Exciting news! SAN's RCC has been awarded Leadership in Energy and Environmental Design (LEED) Gold certification: <http://bit.ly/2lrX5Q0> [pic.twitter.com/eKHA7lLoxq](http://pic.twitter.com/eKHA7lLoxq)

San Diego Airport @SanDiegoAirport

"With every mile we offset, we're making a tangible contribution to the fight against climate change": <http://www.travelweekly.com/Travel-News/Airline-News/San-Diego-Airport-program-offsets-flight-miles-fight-against-climate-change> ...

San Diego Airport @SanDiegoAirport

"With every mile we offset, we're making a tangible contribution to the fight against climate change": <http://www.travelweekly.com/Travel-News/Airline-News/San-Diego-Airport-program-offsets-flight-miles-fight-against-climate-change> ...

San Diego Airport @SanDiegoAirport

There's a simple, affordable & meaningful way to make travel sustainable. Visit @GoodTravelerLNT at: <http://www.thegoodtraveler.org/> to learn more. [pic.twitter.com/gfW8FeOTEd](http://pic.twitter.com/gfW8FeOTEd)



sandiegoairport  
San Diego International Airport

131 likes

1w

sandiegoairport Once established, #palmtrees don't usually require a lot of water. And that is important because while drought conditions have improved in the region, future weather patterns remain unknown. At #SAN, part of our established #sustainability plan for the future includes implementing water-saving landscape design and irrigation. How do we know when to water? The airport's state-of-the-art system collects and analyzes data from multiple weather stations to determine watering needs. This saves approximately 9 million gallons of water in unnecessary irrigation each year. Visit our GOings ON Blog: <http://community.san.org/2017/02/10/san-s-landscaping/> to learn more about what we are doing to conserve water.

sandiegoairport #SanDiego #airport #airports #travel

♡ Add a comment...





**San Diego International Airport** added 4 new photos.

Published by Jennifer Armour [?] · February 21 at 10:19am ·

Beautiful palm trees are one of the first things people notice when arriving at SAN. Here's something to think about the next time that you see them: <http://community.san.org/2017/02/10/sans-landscaping/>



11,362 people reached

Boost Post

Like Comment Share



**San Diego Airport** @SanDiegoAirport

There's an affordable, easy and meaningful way to offset the environmental impact of your journey: <http://www.thegoodtraveler.org> #sustainability pic.twitter.com/LRXgn4Z4f8



**San Diego Airport** @SanDiegoAirport

As the first LEED Platinum certified commercial airport terminal in the world, we're serious about #sustainability pic.twitter.com/15PLIRCHol



**San Diego Airport** @SanDiegoAirport

Twenty North American airports have achieved Airport Carbon Accreditation. We are proud to be among them: <http://bit.ly/2f9Vxe2> pic.twitter.com/IM6m5L5DGI



**San Diego Airport** @SanDiegoAirport

We have a lot of palm trees at SAN. Here's something to think about, the next time you see them: <http://community.san.org/2017/02/10/sans-landscaping/> ... #sustainability pic.twitter.com/yaeZXa14u9



**San Diego Airport** @SanDiegoAirport

"We're excited to add the Rental Car Center to the airport's growing list of LEED certified buildings..." <http://bit.ly/2lrX5Q0> #SanDiego pic.twitter.com/z7vXDGsZnq

**San Diego Airport** @SanDiegoAirport

It really is that simple! Visit @GoodTravelerLNT at: <http://www.thegoodtraveler.org/> to learn more. #sustainability pic.twitter.com/6QNRin0ivp



**San Diego Airport** @SanDiegoAirport

There's an affordable, easy and meaningful way to offset the environmental impact of your journey: <http://www.thegoodtraveler.org> #sustainability pic.twitter.com/Juv6VPxKqx



**San Diego Airport** @SanDiegoAirport

We have a lot of palm trees at SAN. Here's something to think about, the next time you see them: <http://community.san.org/2017/02/10/sans-landscaping/> ... #sustainability pic.twitter.com/gmSU0i31XE



**San Diego International Airport**

Published by Jennifer Armour [?] · March 6 at 10:50am ·

Exciting news! SAN's Rental Car Center has been awarded Leadership in Energy and Environmental Design (LEED) Gold certification. You can learn about the facility's sustainability strategies, which were a key goal of the project, here: <http://bit.ly/2lrX5Q0>



00:13





124 likes

4w

sandiegoairport Exciting news! #SAN's Rental Car Center has been awarded Leadership in Energy and Environmental Design (LEED) Gold certification. You can learn about the facility's #sustainability strategies, which were a key goal of the project, by clicking the link in our bio and searching "News." credit: @pablosnaps1

sandiegoairport #SanDiego #travel #airport #airports



San Diego International Airport

Published by Jennifer Armour [?] · April 28 at 8:25am ·

In honor of Stop Food Waste Day, we thought we'd share a bit about what we are doing to help #stopfoodwaste in San Diego. SAN's Food Waste Diversion Program has donated over 6,900 meals to USO San Diego and the San Diego Rescue Mission. And in 2016, we collected 339 tons of pre and post-consumer food scraps from all participating food and beverage restaurants in the terminals. The food scraps were diverted from the landfill and transported to the Miramar Greenery for composting.



San Diego International Airport

Published by Jennifer Armour [?] · April 11 at 11:58am ·

Over the last year and a half, we have installed 5.5 MW of solar at SAN – enough to power 1,500 homes for a year. We are excited to be a part of San Diego's solar success story.



Mayor Faulconer Announces San Diego Ranks No. 1 Nationally in Solar Panel Installations | City of San Diego Official Website

SANDIEGO.GOV



San Diego International Airport

Published by Jennifer Armour [?] · April 7 at 10:27am ·

It's an honor to be included in this group.



City recognizes local businesses for achievements in recycling

More than a dozen San Diego businesses and organizations were honored today at the city's Waste Reduction and Recycling Awards ceremony at the Central...

KUSI.COM



San Diego International Airport

Published by Jennifer Armour [?] · April 5 at 1:19pm ·

Happy National Walking Day! Did you know that a shared-use path for bicyclists and pedestrians connects SAN to Little Italy and downtown San Diego to the east and to Liberty Station and Point Loma to the west: <http://www.san.org/Parking-Transportation/Biking-Walking...>



00:11



**San Diego International Airport**

Published by Jennifer Armour [?] · April 3 at 12:32pm · 🌐

Help keep America's Finest City beautiful and celebrate Earth Day at the same time! Join us at Spanish Landing Park on Saturday, April 22nd from 9am- noon. Register today at [Creektobay.org](http://Creektobay.org).

**CREEK TO BAY**  
**2017**

◆◆◆◆◆◆◆◆◆◆

Saturday, April 22, 2017  
 9AM-12PM

◆◆◆◆◆◆◆◆◆◆

Join us at over 100 locations  
 throughout San Diego County!

**Welcome to the Annual Creek to Bay Cleanup**  
 I Love A Clean San Diego's Annual Creek to Bay Cleanup. San Diego, CA.  
[CREEKTOBAY.ORG](http://CREEKTOBAY.ORG)



**San Diego Airport @SanDiegoAirport**

Did you know that SAN's Food Waste Diversion Program has donated over 6,900 meals to @USOSanDiego and @SD\_Rescue. #stopfoodwasteday [pic.twitter.com/Z3Q9Ov4IVq](http://pic.twitter.com/Z3Q9Ov4IVq)



**San Diego Airport @SanDiegoAirport**

There's an affordable, easy and meaningful way to offset the environmental impact of your journey: <http://www.thegoodtraveler.org> [pic.twitter.com/JuHCl75rdm](http://pic.twitter.com/JuHCl75rdm)



**San Diego Airport @SanDiegoAirport**

Happy #EarthDay! A big thank you to the volunteers who are helping us pick up litter at Spanish Landing Park #Creektobay Cleanup #LACSD [pic.twitter.com/4k6q1oflUX](http://pic.twitter.com/4k6q1oflUX)



**San Diego Airport @SanDiegoAirport**  
Join us and @iloveacleanSD this #EarthDay (4/22) at Spanish Landing Park for the #Creektobay Cleanup! Details: <http://Creektobay.org> [pic.twitter.com/3mEbPcaaCO](http://pic.twitter.com/3mEbPcaaCO)



**San Diego Airport @SanDiegoAirport**  
We're proud to be a sponsor of the #Creektobay Cleanup. Register to volunteer with us at Spanish Landing Park: <http://Creektobay.org> ! [pic.twitter.com/oOgREO9Tbg](http://pic.twitter.com/oOgREO9Tbg)

**San Diego Airport @SanDiegoAirport**

Over the last year and a half, we have installed 5.5 MW of solar onsite – enough to power 1,500 homes for a year: [https://www.sandiego.gov/mayor/news/releases/mayor-faulconer-announces-san-diego-ranks-no-1-nationally-solar-panel-installations ...](https://www.sandiego.gov/mayor/news/releases/mayor-faulconer-announces-san-diego-ranks-no-1-nationally-solar-panel-installations...) <https://twitter.com/CityofSanDiego/status/849319679885758466> ...



**sandiegoairport**  
Spanish Landing Park

sandiegoairport Happy #earthday! We want to thank the 65 volunteers who have joined us in picking up litter at Spanish Landing Park as part of the #creektobaycleanup #ilacsd

sandiegoairport #SanDiego #airport #earthday2017

iloveacleanSD Great job! 🌍 #Creektobay



85 likes

APRIL 22

**San Diego Airport** @SanDiegoAirport  
SAN's @GoodTravelerLNT Named Best Innovation in #Sustainability <http://bit.ly/2oUnbNr>



**San Diego Airport** @SanDiegoAirport  
As the first LEED Platinum certified commercial airport terminal in the world, we're serious about #sustainability <http://sustain.san.org>  
[pic.twitter.com/Xp6U5f5Jg6](http://pic.twitter.com/Xp6U5f5Jg6)



**San Diego International Airport**

Published by Jennifer Armour [?] · May 8 at 10:33am · 🌐

Are you ready to Go by Bike? Thursday, May 18 is Bike to Work Day and we will be hosting a pit stop at the intersection of Harbor Dr. & Harbor Island Dr. You can register for the event by clicking the link below.



### BTWD Registration

Register for Bike to Work Day and join thousands of bike riders throughout the San Diego region on the morning of Thursday, May 18 as we GO by BIKE!

[ICOMMUTESD.COM](http://ICOMMUTESD.COM)



**San Diego Airport** @SanDiegoAirport  
May 18 is #BikeToWorkDay! SAN will be hosting a pit stop at intersection of Harbor Dr & Harbor Island Dr.:

**San Diego Airport** @SanDiegoAirport

From utilizing eTickets to refilling water bottles post-security - here are some tips on how to travel sustainably: <http://community.san.org/2017/05/26/2017-go-green-at-san/> ... [pic.twitter.com/LPMgd460T8](http://pic.twitter.com/LPMgd460T8)

**San Diego Airport** @SanDiegoAirport

From managing energy & water use to protecting an endangered species – & more, SAN is serious about #sustainability: <http://sustain.san.org/home-2017/> [pic.twitter.com/goPAuT8bqt](http://pic.twitter.com/goPAuT8bqt)



**San Diego Airport** @SanDiegoAirport · Jun 8

From managing energy & water use to protecting an endangered species – & more, SAN is serious about #sustainability: [sustain.san.org/home-2017/](http://sustain.san.org/home-2017/)



**San Diego Airport** @SanDiegoAirport

When it comes to traveling through SAN, even Kermit would find being green easy: <http://community.san.org/2017/05/26/2017-go-green-at-san/> ... #sustainability #SanDiego [pic.twitter.com/7W5Kuryksh](http://pic.twitter.com/7W5Kuryksh)



**San Diego Airport** @SanDiegoAirport

Are you ready to #GoByBike? Join thousands of San Diegans on #BikeToWorkDay, May 18 from 6 – 9 a.m. Learn more here: <http://icommutesd.com/events/bike-month> ... [pic.twitter.com/l1rzQuilf](http://pic.twitter.com/l1rzQuilf)



### San Diego International Airport

Published by Jennifer Armour [?] · May 30 at 10:45am · 🌐

When it comes to traveling through SAN, even Kermit would think being green is easy. Here are five things you can do to travel sustainably: <http://community.san.org/2017/05/26/2017-go-green-at-san/>



GIPHY



### San Diego Airport @SanDiegoAirport · Jun 13

From utilizing eTickets to refilling water bottles post-security - here are some tips on how to travel sustainably: [community.san.org/2017/05/26/2017-go-green-at-san/](http://community.san.org/2017/05/26/2017-go-green-at-san/)



GIF

🗨️ ↻ ❤️ 4 📺



### San Diego Airport @SanDiegoAirport

There's an affordable, easy and meaningful way to offset the environmental impact of your journey: <http://www.thegoodtraveler.org> [pic.twitter.com/gkLovtmg2R](http://pic.twitter.com/gkLovtmg2R)



### sandiegoairport San Diego International Airport

sandiegoairport Happy #WorldEnvironmentDay! Did you know that #SAN is home to California least tern (*Sterna antillarum browni*, "CLT"), a federally listed endangered seabird species? Check out today's Instagram Story to learn more about our tiny, migratory resident.

sandiegoairport #seabird ×  
#environment #airport ×  
#endangeredspecies #SanDiego

boeing747fanpage Hi @sandiegoairport, what time will the Edelweiss airlines arrive in san diego on friday? ×

sandiegoairport @boeing747fanpage ×  
it's scheduled to land at 5:40 p.m. 😊



96 likes

JUNE 5



### San Diego International Airport

Published by Jennifer Armour [?] · June 28 at 10:38am · 🌐

In 2016, SAN collected and reused more than 103,000 gallons of water from condensation dripping from jet bridges. Collection and reuse of water is one of the key strategies identified in our draft Water Stewardship Plan. You can learn more about this plan, and about our overall sustainability program, in our latest Sustainability Report: <http://sustain.san.org/home-2017/>



### San Diego International Airport

June 12, 2017 · 🌐

From addressing air quality and emissions to protecting an endangered species to working to improve our overall resilience to climate change, SAN is committed to sustainability. Here's a look at what we do to ensure that the airport is operating in a safe, secure, environmentally sound, effective and efficient manner: <http://sustain.san.org/operational-2017/>



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### San Diego International Airport

July 25, 2017 · 🌐

Want to travel sustainably? With the launch of our Green Concessions Program, doing so is easier than ever.



### SD Airport Offers Incentives for Concessions to Go Green

The San Diego International Airport launched a new program to reduce water, energy use and waste on Monday.

[NBCSANDIEGO.COM](http://NBCSANDIEGO.COM)

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### San Diego International Airport

August 10, 2017 · 🌐

Be one of the 7,000 San Diegans across the County to help remove debris from our environment! Join us at Spanish Landing on September 16th for California Coastal Cleanup Day! Sign up here:

<http://www.cleanupday.org/cleanupsites.htm?ID=C&ID2=647>



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**San Diego International Airport**  
October 12, 2017 · 🌐

For SAN employees, it was a "Sustainable September" to remember!



### Airport Authority Employees Have a Sustainable September | Community - SAN

Airport Authority Employees Have a Sustainable September Did you know that San Diego International Airport is one of the greenest airports in the world? We take  
COMMUNITY.SAN.ORG

**San Diego Airport** @SanDiegoAirport · 11 Jul 2017

Did you know that SAN has 10 ChargePoint electric vehicle charging stations in west end of Terminal 2 parking lot: [sustain.san.org/operational-20...](http://sustain.san.org/operational-20...)



🗨️ 1 ❤️ 5 ✉️

**San Diego Airport** @SanDiegoAirport · 3 Jul 2017

It really is that simple! Visit @GoodTravelerLNT at: [thegoodtraveler.org](http://thegoodtraveler.org) to learn more. #sustainability



🗨️ ↻️ ❤️ ↗️ ✉️

**San Diego Airport** @SanDiegoAirport · 17 Jul 2017

As the first LEED Platinum certified commercial airport terminal in the world, we're serious about #sustainability [sustain.san.org](http://sustain.san.org)



🗨️ ↻️ 3 ❤️ 15 ✉️

**San Diego Airport** @SanDiegoAirport · 18 Jul 2017

Flying to #SanDiego for @Comic\_Con? Here's everything you need to know about transportation to and from SAN: [san.org/Parking-Transp...](http://san.org/Parking-Transp...)



🗨️ ↻️ 5 ❤️ 9 ✉️

**San Diego Airport** @SanDiegoAirport · 19 Jul 2017

Traveling with a canine friend? SAN has 8 pet relief areas (fire hydrant, water fountain and turf included).



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San Diego Airport Retweeted **#NBC7 San Diego** @nbcсандiego · 25 Jul 2017

Green Concessions program at San Diego International Airport rewards and recognizes concessionaires who go green.



**SD Airport Offers Incentives for Concessions to Go Green**  
The San Diego International Airport launched a new program to reduce water, energy use and waste on Monday.  
nbcсандiego.com

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**San Diego Airport** @SanDiegoAirport · 27 Jul 2017  
From managing energy & water use to protecting an endangered species – & more, SAN is serious about #sustainability: [sustain.san.org/home-2017/](http://sustain.san.org/home-2017/)



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**San Diego Airport** @SanDiegoAirport · 31 Aug 2017  
Taking the trolley to SAN? Great idea! Read here: [ow.ly/zYqo30ePjSY](http://ow.ly/zYqo30ePjSY).  
Watch here: [ow.ly/6oaj30ePk4N](http://ow.ly/6oaj30ePk4N)



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**San Diego Airport** @SanDiegoAirport · 11 Sep 2017  
Join us from 9-12 this Sat. for CA Coastal Cleanup Day! We'll be at Spanish Landing Park East. Register here: [ow.ly/QzCv30f50WI](http://ow.ly/QzCv30f50WI)

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**San Diego Airport**  @SanDiegoAirport · 26 Sep 2017

Thanks to our sustainability partner San Diego Gas & Electric for this great article!



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**San Diego Airport**  @SanDiegoAirport · 12 Oct 2017

For @SanDiegoAirport employees, it was a "Sustainable September" to remember! [community.san.org/2017/10/11/sus...](http://community.san.org/2017/10/11/sus...)

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
**San Diego Airport**  @SanDiegoAirport · 15 Dec 2017

The Good Traveler stickers are available at @RyanBrosCoffee in @SanDiegoAirport T1 and T2! \$2 offsets 1k flying miles.



**San Diego Airport**  @SanDiegoAirport · 6 Dec 2017

Do you know how to "fly dry?" Helpful tips from @SanDiegoAirport! [community.san.org/2017/12/06/fly...](http://community.san.org/2017/12/06/fly...)

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