



Sustainability  
Focused

# *Environmental Report 2013*

## Director of Airports



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Lambert-St. Louis International Airport

Lambert-St. Louis International Airport made significant strides in 2013 to become more sustainable.

The Airport was the recipient of a 2013 “Award of Merit-Greatest Gain Owner” category in the St. Louis Regional Chamber’s Green Business Challenge. We received this award for innovative projects such as expanding our biodiversity footprint with the introduction of a new colony of bees, expanding single stream recycling throughout the Airport, and establishing a composting program for restaurants in Terminal 1. The expanded recycling efforts resulted in a reduction of almost 20 percent of waste headed to the landfills.

The Airport received a VALE grant from the Federal Aviation Administration (FAA) and purchased two additional zero emissions vehicles. This is an addition to the Airport fleet of more than 220 vehicles that operate on compressed natural gas (CNG) or other alternative fuels. The Airport was the catalyst behind a new public CNG station at our Super Park facility at I-70 and Cypress Road. Spire, a Laclede Gas venture, opened in late 2013 and is thriving to meet the growing demand of business fleets and individual cars that fuel with CNG.

The year was also marked by the amazing arrival of the Solar Impulse, an experimental plane fueled by the sun and built with a new mindset of sustainability and new technologies. Tens of thousands of aviation and green technology enthusiasts were able to tour the plane before it departed to finish its history making journey across the U.S.

Lambert’s environmental policy is taking shape and changing every year as we look to improve the way we operate. Sustainability is now a daily calculation. It’s adding up to cost savings and a better environment for our customers and our region.

## Recycling & Re-Using Highlights



### Single Stream Recycling

- Developed a new Airport recycling contract that gives the Airport rebates for recyclables diverted from landfill.
- Developed a comprehensive terminal and concourse recycling program mapping out locations of new public containers for recyclable and waste containers in major pathways of terminals and concourses as well as parking garages.
- Expanded collection from separating paper products and drink bottles to a single stream collection system to capture more recyclables such as cardboard, aluminum, paper products and plastics.
- The Airport's landfill diversion rate doubled in 2013 capturing 20% of recyclable waste from general operations.
- Provided extensive employee/tenant training to improve awareness about recycling and sustainability initiatives.
- The Airport is working toward the Mayor's sustainability initiative to have single stream recycling available at 100% of government buildings.
- Recycling targets are on track to increase the total amount of recycled materials from regular operations to 25 percent in 2014.



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# REDUCE RE-USE RECYCLE

## Recycling & Re-Using Highlights (con't)

### Food Waste Composting

- The five restaurants in the Food Waste Composting Program at Terminal 1 composted 15.9 tons of food waste, collected from un-served waste and customer leftovers, to high grade agricultural compost for use on farms and gardens.
- Lambert received a \$25,000 grant from St. Louis-Jefferson Solid Waste District. These funds were used to help defray the cost of recycling organic waste from the Airport restaurants, which is then composted and used for other purposes.



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**REDUCE RE-USE RECYCLE**

### Construction Material and Equipment Reuse and Recycling

- Initiated a policy requiring construction contractors to recycle construction material such as concrete used for runway reconstruction thus reducing the cost of purchasing materials.
- Donated the Airport's qualified surplus building materials to Habitat of Humanity, for reuse or resale. The donation supports the local community and avoids landfill disposal
- Recycled used pallets.
- Recycled used electronics.
- Recycled used fluorescent bulbs and ballasts.



# REDUCE RE-USE RECYCLE

# Water Quality Highlights

## Water Quality

- Worked with airline station managers to improve locations where aircraft deice within the collection area for glycol and developed a winter deicing protocol.
- Airlines at Lambert are the first in the U.S. to use a bio-based deicing fluid that is environmentally friendly and more cost effective for air carriers.

## Water Conservation

- The Airport Experience Program (AEP) renovations included restroom remodeling in Terminal 1 and associated concourses. The restroom renovations included the installation of low flow fixtures that reduced the demand to about one half of that required by older fixtures.
- The sustainability policy for water conservation places requirements on water efficient fixtures.

# Air Quality Highlights

- The Airport received a VALE grant from the FAA to purchase two zero emission vehicles for use by Airport Maintenance.
- Initiated development of airport property for a new public compressed natural gas (CNG) station operated by Spire, Natural Gas Fueling Solutions.
- Participated in the Clean Cities Program promoting the use of alternative fuel vehicles in the communities.



# Energy Reduction Highlights



- Formed a Utility Task Force to reduce energy consumption, water usage and cost. Developed baseline energy use data, monitored utility usage, and integrated utility meters locations in the GIS map.
- Continued installation of light occupancy sensors throughout the airport. Approximately 90 percent of incandescent lights replaced with LED, or CFL.
- Replaced light standards on the Airport owned roads with energy efficient fixtures.
- Installed new programmable thermostats.
- Three employees completed nationally recognized Building Operator Certification Program, focused on energy efficient building operations and preventative maintenance procedures.
- Received \$18,000 in incentives through Ameren Missouri's Energy Efficiency Rebate program.
- Realized savings of 30-40 percent from switching to a Transport Natural Gas account.



## Biodiversity Highlights

- New Biodiversity Policy was developed to promote biodiversity, evaluate in-house operations, and incorporate biodiversity into the Airport's planning and development projects.
- Established a honey bee colony (20 hives & 1,000,000 bees) where each hive can produce 60 pounds of honey each year.
- Missouri Botanical Garden donated Birch trees to the airport to enhance growth of native flora, which is compatible with Airport operations and Federal Aviation Administration (FAA) regulatory requirements for airport plantings.
- Infrastructure improvements at Terminal 1 include natural lighting and outdoor landscaping on the upper level.



## Biodiversity Highlights (con't)



- The Airport Landscaping Department cultivated most of the Airport's perennial plants from cuttings, purchasing only annual plants.
- Plants, such as bamboo, canna, and bulbs, are removed each season, and carefully stored for replanting.
- Planting soil at the Airport is reused and supplemented with compost. The compost is created from grass, tree clippings, and excess soil.
- Plastic pots, containers and trays are returned to Missouri Botanical Garden pick up locations for reuse and recycling.



# Community Outreach Highlights

- Hosted Solar Impulse aircraft viewing event while promoting Lambert Airport's history/sustainability.
- Received the "Award of Merit – Greatest Gain Owner" from the St. Louis Regional Chamber's Green Business Challenge for second straight year.
- Participated in the St. Louis Green Business Challenge EXPO.
- Promoted the Airport's Sustainability Program and participated in the St. Louis Earth Day 2013 event at Forest Park.
- Hosted the media day kick-off event promoting Mayor Francis Slay's Sustainability Action Agenda outlining 30 priority sustainability goals for the City of St. Louis.
- Worked along-side the City of St. Louis departments to plan and implement the City



Sustainability Summit III. The Airport Director was a featured speaker at the Summit's Technical work session.

- Hosted the City of St. Louis Green Team for a facility tour focusing on sustainability at the Airport.
- Presented at the ACI-NA Deicing Conference on Optimization of Deicing Fluid Use and Collection.
- Featured in Airport Terminal Services' presentation on environmentally bio-based aircraft de-icing fluid at the ACI-NA Deicing Conference.
- Received a Voluntary Low Emission (VALE) Program grant from the FAA to purchase two Zero Emission Vehicles to add the Airport's current fleet.



# Sustainability Timeline



## 2012 & 2013

RCGA Green Business Challenge  
“Award of Merit-Greatest  
Gain Owner” category

## October 2012

Acquired Electrical Vehicles &  
Charging Stations

## September 2012

Launched Food Compost  
Collection Pilot Program

## May 2012

Formal Sustainability  
Policy Development

## February 2012

EMS ISO 14001 Self-Certified

## August 2011

Participation in  
Operation Clean Stream

## September 2010

Airport Experience starts  
major sustainability improvements

## 2009

Environmental  
Management System  
FAA grant recipient

## 2002

Full Implementation of  
Residential Sound Insulation  
Program & winner of airport  
industry Environmental  
Achievement Award

## 2000

Development of formalized  
EMS approach to develop  
environmental programs,  
initiatives, and policy

## 1988

Use of alternative fuels  
for fleets and shuttles



# Sustainability Focused



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