ORLANDO INTERNATIONAL AIRPORT | MCO

E2 Day 2017
Sustainable Airports

Judith-Ann Jarrette
Manager, Noise Abatement & Sustainability
Greater Orlando Aviation Authority

About MCO

MCO Ranked #1 Airport in North America for Customer Satisfaction

J.D. Power & Associates 2017

By The Numbers

- 2nd busiest airport in Florida
  - Over 43M annual passengers
- Largest airport Rental Car market
- 18,000 Employees
- $31+billion economic impact
- 137 food, beverage and retail locations

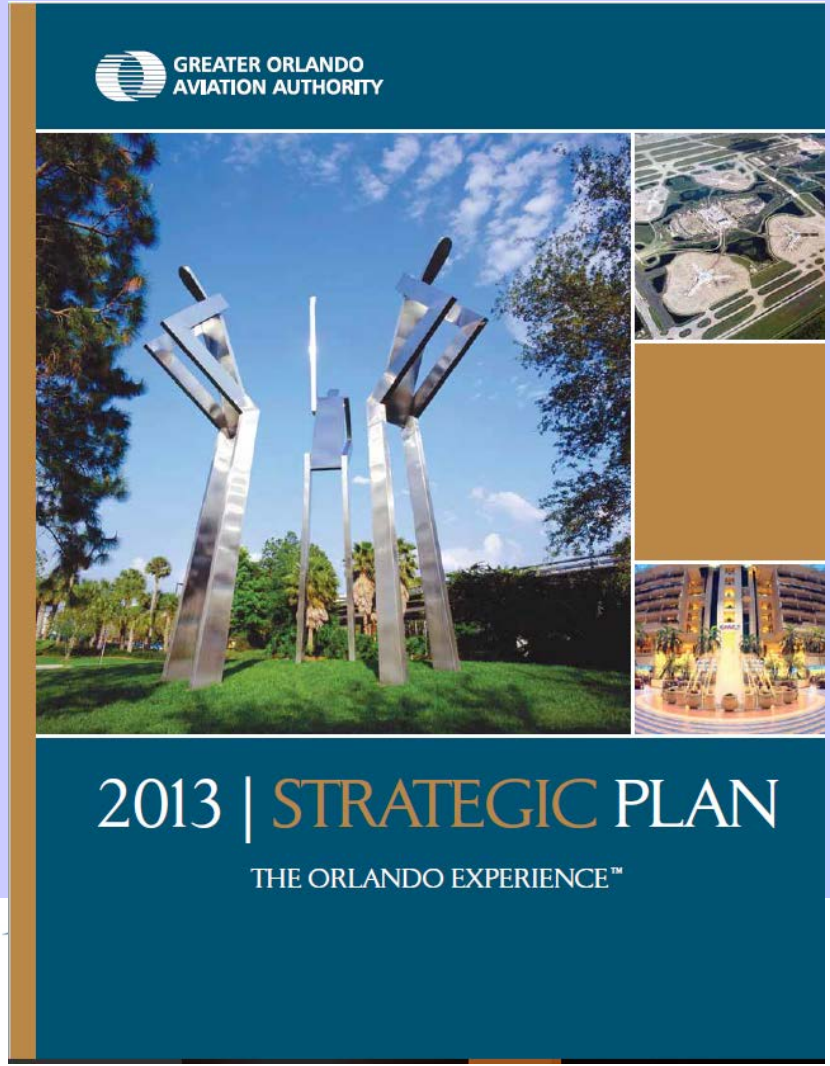
Sustainable Initiatives at MCO

Vision and Mission

To provide safe, secure, customer-friendly and affordable services and facilities that promote the surrounding region as the premier intermodal transportation gateway for global commerce

Design Concept

A total environmentally responsive complex that has high passenger convenience features, low maintenance and operational costs, accommodates a high growth rate and reflects the unique character of Central Florida



"OUR VALUES ... *Innovation, Sustainability and Flexibility*"

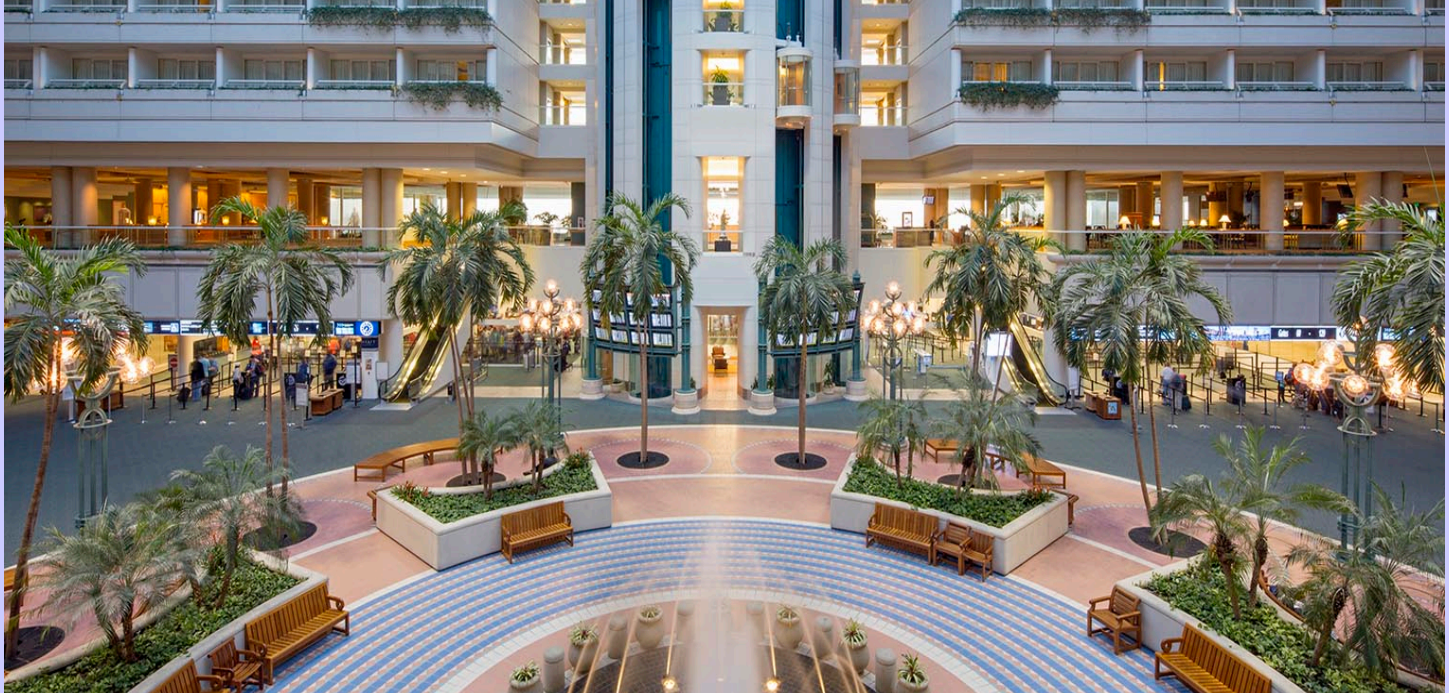
Approach to Airport Sustainability

ECONOMIC VIABILITY

OPERATIONAL EFFICIENCY

SOCIAL RESPONSIBILITY

NATURAL RESOURCE CONSERVATION



Waste/ Recycling

Energy

Water

Business Procedures

Planning, Design and Construction

Environment

Alternative Transportation

Community Leader/Partner

GOAL – *divert 50% of waste by 2018*

2016 waste diversion = 21.8%

Reduce Waste to Landfill

Recycling programs are in place throughout the airport. Education and training by the Green Team increase awareness and improve results

95% recycling rate at construction sites

RECYCLE ACROSS AMERICA Standardized Labels

OVER 27,200 lbs.

of textile waste diverted from landfill

ATRS
American Textile Recycling Service
Your Neighborhood Recycler
www.atrscorp.com

Pre- screening recycling

Food diversion

HYATT REGENCY®
ORLANDO INT'L AIRPORT

Pre-security liquids disposal

Post-security refill stations

METRA
Metropolitan Environmental TRaining Alliance

www. metra.org

REDUCE NON-RENEWABLE ENERGY USE

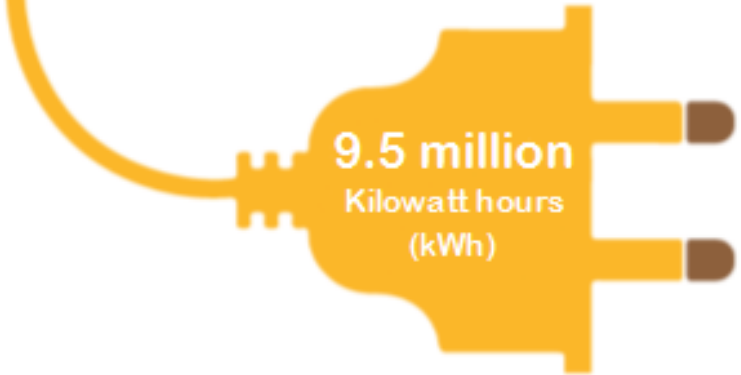
GOAL – increase energy efficiency by 10% by 2018

6.3% increased efficiency in 2016

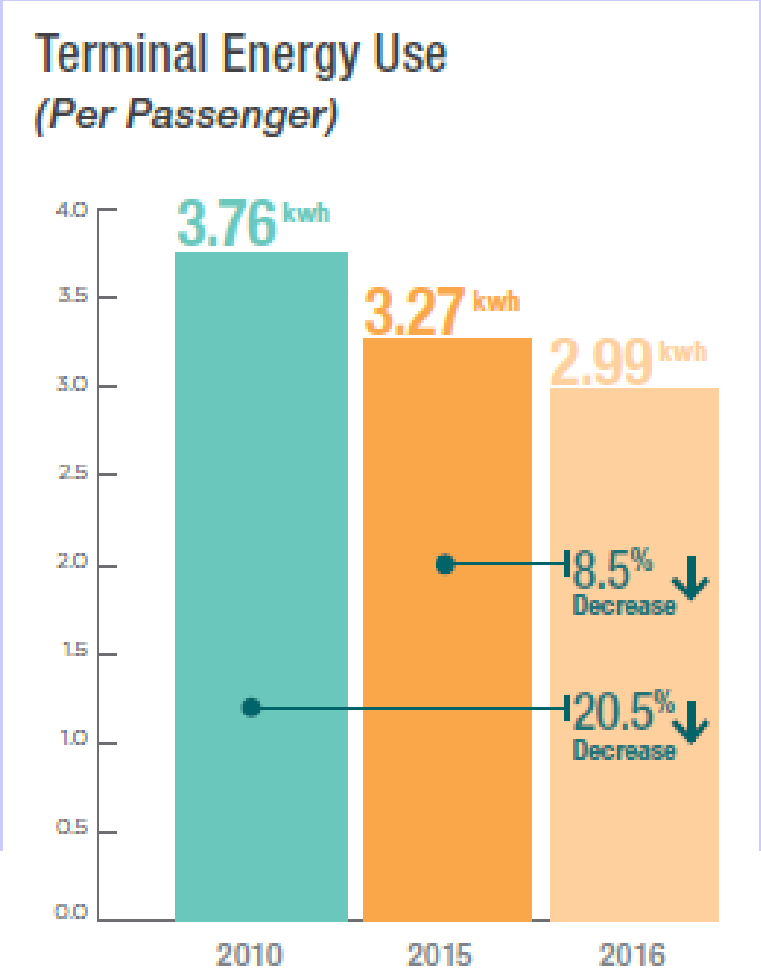
Energy Conservation

Enhanced building automation, high-efficiency air conditioning units and a switch to LED lighting have lowered our energy use

Total Energy Savings (2010 through 2016)



Magnetic Bearing Chillers (AS4, PM/ITF)
New Cooling Towers



INCREASE WATER CONSERVATION

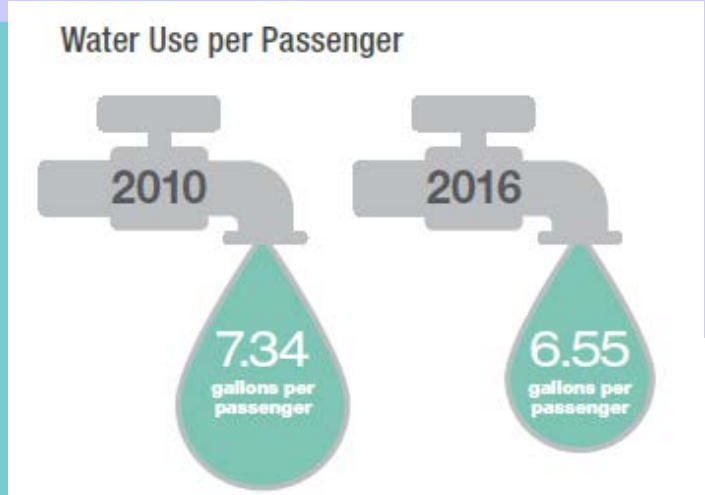
Goal Achieved

GOAL – *Reduce per passenger water consumption by 10% by 2018*

11.5% reduction by end 2016

Water Conservation

High efficiency plumbing fixtures and Florida-Friendly Landscaping irrigated with reclaimed water reduce our consumption of potable water



INTEGRATE SUSTAINABLE PRACTICES INTO BUSINESS, POLICIES, AND WRITTEN AGREEMENTS

- Green Cleaning custodial products
- New Concessions contracts ban Styrofoam and petroleum-based plastic in disposable packaging
- High efficiency lighting and water requirements
- Recycling and recycled content requirements
- Surplus food donation to greatest extent possible allowed by food safety regulations

GREEN SEAL CERTIFIED

METRA Metropolitan Environmental TRaining Alliance

- Organizational Sustainability Pledge
- Preferable Purchasing Pledge

S&P Global
Ratings

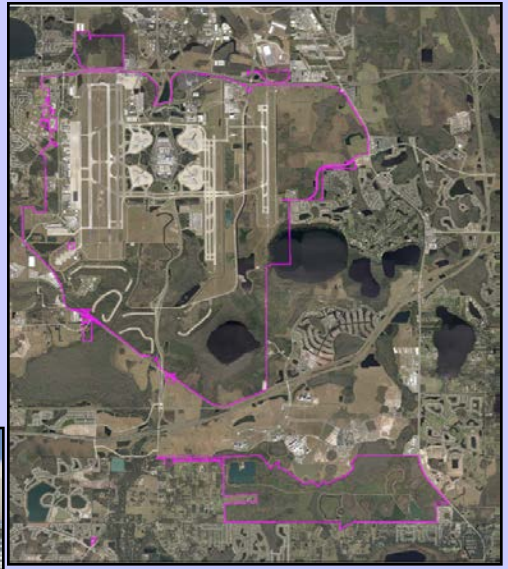
RatingsDirect®

Greater Orlando Aviation Authority Subordinated Airport Facilities Revenue Bonds Receive E1/78 Green Evaluation Score

METRA
Metropolitan Environmental TRaining Alliance

South Airport construction designed to LEED Version 4 standards

LEEDv4 certification for existing buildings & campus



MCO Campus

South Airport ATM/ITF

South Airport Terminal C

What is LEED?

LEED = Leadership in Energy and Environmental Design

- Certification rating system developed by US Green Building Council
- Improve building efficiencies and reduce operation cost
- Aligns with GOAA Sustainability Management Plan
- Aligns with City, County, FAA Sustainability efforts

MINIMIZE ENVIRONMENTAL IMPACT

- Continuous water quality monitoring
- Wildlife hazard mitigation and management
- Preserving wetlands and habitats
- Pollution prevention and mitigation
- Protection of threatened species

Voluntary noise abatement procedures
Land use compatibility planning

Hazardous & Regulated Waste Handlers

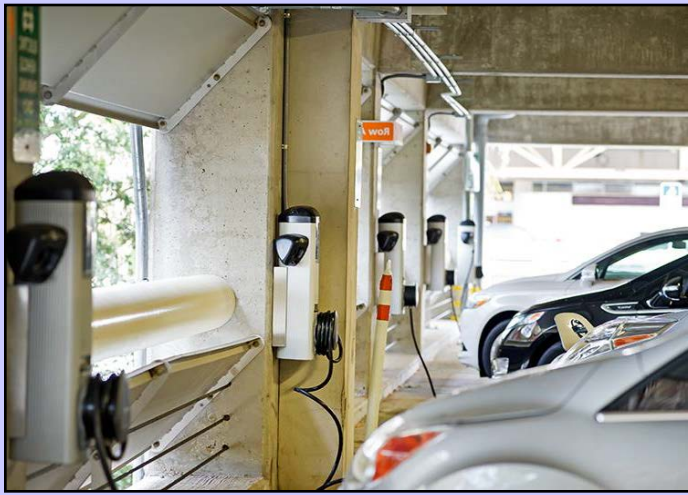
- Environmental compliance visits
- Annual NPDES training
- Must comply with GOAA Stormwater Pollution Prevention Plan (SWPPP) and GOAA Spill Prevention Control and Countermeasures (SPCC) Plan
- Must implement Best Management Practices (BMPs)

- Clean Construction program reduces particulate emissions
- 79% of construction vehicles meet EPA Tier 4 emission standards
- Strict no idling policy

Automated People Mover/Intermodal Terminal Facility
Connects inter-city rail, commuter rail, light rail

BEST Workplaces for Commuters℠

MCO Awarded Best Workplace for Commuters by Center for Urban Transportation Research



9 eV Charging Stations

CNG Fueling Station

Ongoing Outreach and Education

Green Team MCO ORL

GOAA GREEN
Greening The Orlando Experience®

Greater Orlando Aviation Authority
CELEBRATE
EARTH DAY
APRIL 21 2017
MAIN TERMINAL - 3RD LEVEL
10 A.M. - 1 P.M.
OPEN TO EMPLOYEES, THE COMMUNITY & THE TRAVELING PUBLIC
FEATURING GAMES & PRIZES
GUEST APPEARANCES BY THE BAG MONSTER & CAN PEOPLE
WWW.ORLANDOAIRPORTS.NET

America Recycles Day
NOVEMBER 15

EARTH DAY
THANK YOU TO OUR PARTNERS:

Green Team

MCO Welcomes the Orlando Philharmonic Orchestra

THE National ARTS PROGRAM®
For the encouragement and development of artistic talent

Annual Col Joe Kittinger Award

2017 GOAA Passport to Wellness Program

- 12 wellness lectures and workshops
- 6 retirement/financial lectures and workshops
- On-site health screenings
- On-site fitness classes twice per week

SATURDAY, APRIL 15, 2017

300+ PARTICIPANTS

ORLANDO EXECUTIVE AIRPORT 7TH ANNUAL RUN FOR THE ANGELS 5K

GREEN TEAM VOLUNTEERS

GOAA GREEN

Greening The Orlando Experience®

METRA Metropolitan Environmental TRaining Alliance

Green Team Challenge

plastic ring carriers

138 lbs. pull tabs

1,081 lbs. plastic caps

South Airport Terminal C

Coming 2020

METRA
Metropolitan Environmental TRaining Alliance

www. metra.org