

Jacksonville Aviation Authority

Sustainability Success Stories at JIA

SUSTAINABILITY
2011 Environmental Symposium

*Building a Greener Quality
of Life*

August 19, 2011



CDM

JIA Sustainable Practices



Water

- Water Saving Fixtures
- Stormwater Reuse



Electricity

- Energy Saving Fixtures
- Operational Controls



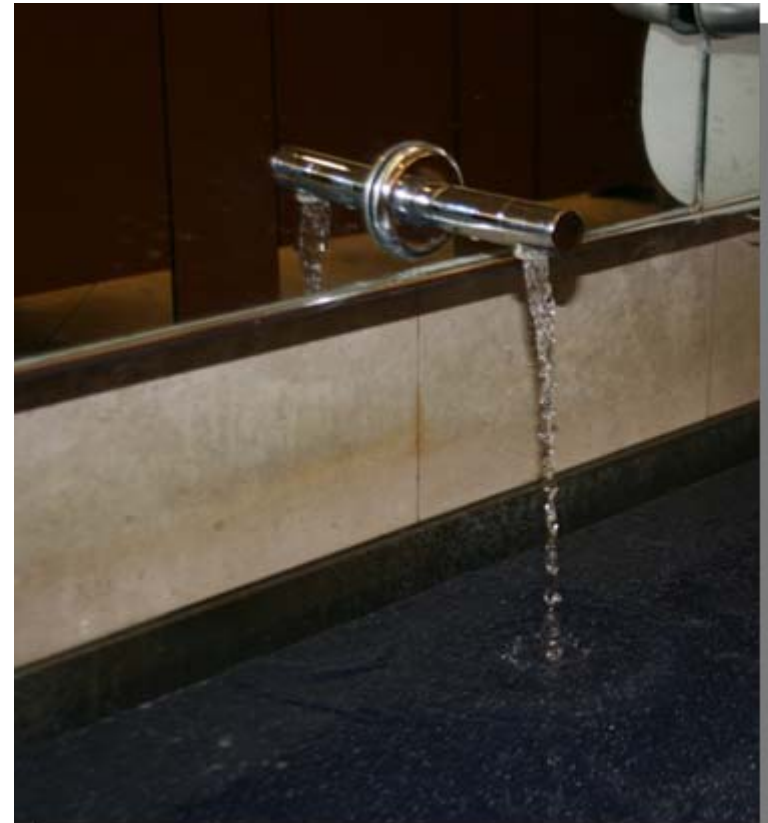
Waste

- Recycling Program

Water



- Low flow fixtures
- Sensor driven faucets
- Inline or tank-less hot water heaters in bathroom and some tenant facilities
- Considering condensate recovery for HVAC



Water



- Landscaping with Florida Friendly vegetation to reduce irrigation needs
- Stormwater Irrigation
- Carwash washwater recycle
- Oil water separator



Water



- Stormwater Pollution Prevention Program
 - Annual audits
 - Quarterly self-inspections
 - Training
 - Spill Response Plan
 - Best Management Practices



Energy



- Extensive use of skylights to utilize ambient light
- Microlite Energy Management System

Energy



- Photo eyes on terminal lighting to adjust lighting levels based on available ambient lighting

Energy



Metal halide
high intensity
lighting paired
with skylights

Energy



- Induction lighting in Ticketing Area
 - EMS to turn lights off when there is enough ambient light present
 - Extended bulb life (100,000 hr)
 - Reduced cooling costs, reduced energy costs



Energy



- Alternative Lighting in Baggage Claim Area
 - Reduced energy costs (\$11,000 annual savings)
 - One year payback period



Energy



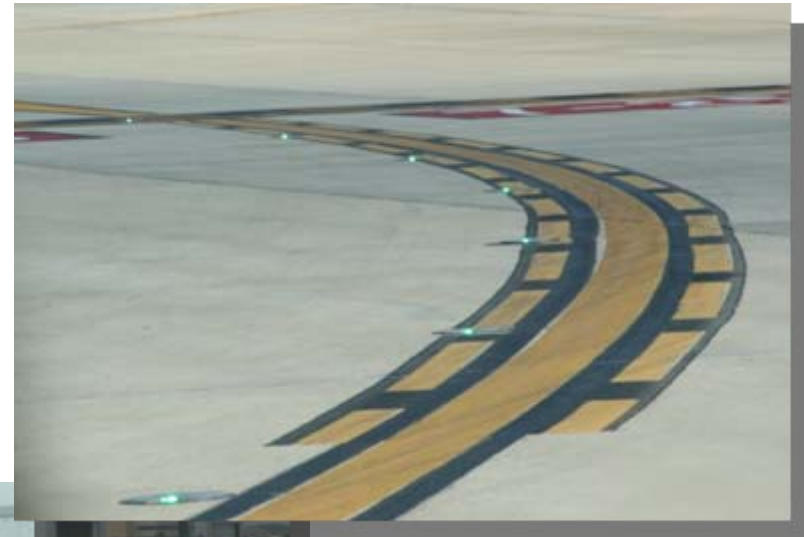
- Pilot Project in Rental Car Area
 - Motion activated lighting
 - Induction lights



Energy



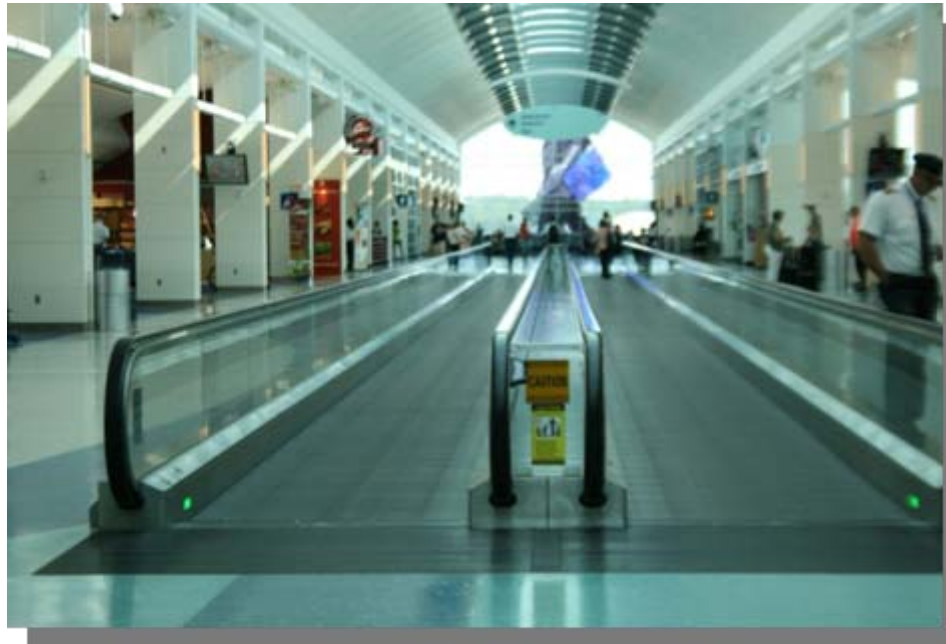
- LED Airfield Lighting
 - Phase 1: Lead on and lead off lights
 - Phase 2: taxiway lights and signage
 - Phase 3: high intensity runway lighting



Energy



- Administration and Terminal energy use is managed through a building automation system
- Occupancy sensors in all administrative offices
- Moving walkways and escalators are shut down during low occupancy



Energy



- Solar Energy Pilot Project with JEA
 - Solar energy is harvested to run JAA lighting



- GPS tracking to identify idling times on JAA vehicles



Energy



- Electric carts in parking lots to supplement gasoline powered buses



Waste



- Recycling Program
 - Steel/metal
 - Aluminum
 - Plastic
 - Paper
- Tenant recycling of magazines and in-flight materials at end of month
- Implement compactors to reduce the frequency of pick-ups
- Wooden pallet recycle/reuse program



Waste



- Buy supplies in bulk to reduce packaging waste
- Install terrazzo flooring to reduce replacement, cleaning, and maintenance activities



- Zoo performs selective harvesting of vegetation to feed herbivores

JAA Sustainability Program

- JAA is initiating a formal Sustainability Program for all four airports:
 - Jacksonville International Airport
 - Cecil Airport
 - Herlong Recreational Airport
 - Jacksonville Executive at Craig Airport



JAA Sustainability Program

- The JAA Sustainability Program will:
 - Establish Program Objectives such as reduced energy consumption, waste generation, and water usage.
 - Develop a benchmark for JAA current usage
 - Establish quantitative goals for each program objective
 - Create a list of implementable projects to achieve the JAA's sustainability goals
 - Communicate these goals and JAA's sustainable practices to interested stakeholders

Questions?

- Thank you to:
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 - Bob Molle, JAA
 - Charles Tabb, JAA
 - Danny Connell, JAA