



# Hartsfield-Jackson Atlanta International Airport



## **Welcome** **Sustainability Initiatives of** **Hartsfield-Jackson Atlanta** **International Airport**



**Tom Nissalke, Ph.D.**  
**Director – Environmental**  
**and Technical Services**  
**August 6, 2009**



# Hartsfield-Jackson Atlanta International Airport



# ATL Sustainability Initiatives Agenda



- **Current and Near Term LEED Initiatives**
- **Other LEED-Related, Sustainability, and Green Happenings at H-JAIA**



**MAYNARD H. JACKSON INTERNATIONAL TERMINAL**  
HARTSFIELD-JACKSON ATLANTA INTERNATIONAL AIRPORT Date: JUN 25 2009  
Atlanta, Georgia





# Current and Near Term LEED Initiatives

- **Fire Station 33**
- **Central Passenger Terminal Complex (CPTC)**
- **Maynard H. Jackson International Terminal (MHJIT)**
- **Accredited Professionals**



# First LEED Certified Building on the Airport



- To support Runway 10-28, Fire Station 33 was constructed
- It was constructed to LEED criteria and certified July 2007





# LEED Gold Certification of MHJIT

- **Hartsfield-Jackson's New International Terminal is Seeking New Construction LEED Gold Certification**





# LEED Gold Certification of MHJIT

- The 12-gate, 1.1 million square-foot MHJIT is under construction
- Expect completion in spring 2012



MAYNARD H. JACKSON INTERNATIONAL TERMINAL  
HARTSFIELD-JACKSON ATLANTA INTERNATIONAL AIRPORT Date: JUN 25 2009  
Atlanta, Georgia



MAYNARD H. JACKSON INTERNATIONAL TERMINAL  
HARTSFIELD-JACKSON ATLANTA INTERNATIONAL AIRPORT Date: JUN 25 2009  
Atlanta, Georgia





# LEED Accredited Professionals on Staff

- **The Department of Aviation currently has 6 architects and engineers on City staff who are LEED AP**
- **We believe this heightens staff environmental awareness**





# Other LEED-Related, Sustainability, and Green Happenings at ATL



- We have a number of different initiatives either ongoing or planned to begin shortly
- These occur on both the landside and airside





# Recycling on Airfield

---

---

- **We're probably one of the larger airfield pavement recyclers**
- **Our projects have incorporated in excess of 675,000 tons of recycled portland cement concrete**
- **Projects involve reconstruction of Runway 9R-27L, Runway 8R-26L, as well as Taxiways "M" and "E"**



# Recycling on Airfield





# Recycling In CPTC

- **AATC and its solid waste contractor are in the process of implementing a materials recovery facility**



- **If everything proceeds as planned, we expect to see approximately 13,000 tons of material diverted from local landfills and recycled by 2010 (50% recycle rate); and 18,000 tons diverted and recycled by 2011 (70% recycle rate)**





# CONRAC APM

- Our consolidated rental car facility will open in November 2009
- We'll have an automated people mover connecting the CONRAC and terminal



- No more rental car shuttle buses on the terminal area roads





# CPTC Rest Room Water Usage

- **Retrofitted 630 1.6 gpf toilet flush valves with 1.28 gpf valves**
- **Retrofitted 1,200 1.0 gpf urinal flush valves with 0.5 gpf valves**
- **Will retrofit shortly 1,270 faucets with high-efficiency faucets**



**Record drought in the Atlanta Metro Area**





# Rainwater Collection for Irrigation

- **The DOA's Maintenance Division has three 2,500-gallon cisterns**
- **This water is used to water plants around the terminal and other buildings**





# CPTC Rest Room Paper Product Usage

- A switch was made from folded paper towels to automatic dispensers
- It's estimated that approximately 240,000 pounds annually of paper towel has been saved
- Similarly, a change to coreless toilet paper rolls was made, saving approximately 140,000 pounds annually







# Use of High Albedo Materials

- Our standard on the airfield is exclusive use of portland cement concrete for full-strength runways and taxiways



- All City-owned buildings (CPTC, South Cargo, etc.) will have a white, single-ply 80-mil roofing membrane





# Runway 10-28 Mitigation -- Sams Lake and Jesters Creek

- To offset wetland and stream impacts resulting from Runway 10-28 construction, we restored Sams Lake
- This 56.5 acre project has been very environmentally successful, received national accolades, and been very popular with the public



# Another Successful Stream Mitigation Project Involved a Strategic Partnership



**Hartsfield-Jackson International worked with the Clayton County Water Authority on restoring Jesters Creek – part of mitigating the RW 10-28 project.**





# Energy Conservation Program - CPTC

- Within the terminal and concourses, we have completed installation of new energy efficient lighting and roof mounted air handling units



- Expected energy savings is approximately

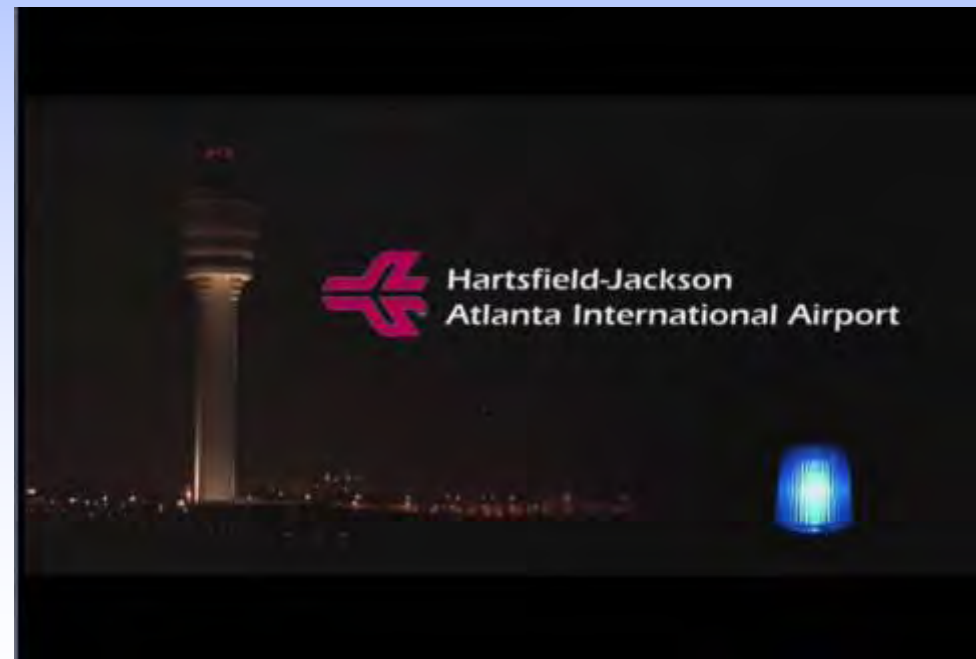
**6,000,000 kWh**



# Energy Conservation Program - Airfield



- We have installed approximately 3,000 LED edge, centerline, and guard lights and continue to do so on all new or reconstructed taxiways
- We are the first airport to have LED runway guard lights installed
- We are working with Siemens to develop a DC LED edge light that is even more energy efficient



# Energy Conservation Program - Airfield



## ● Taxiway "V"



## ● Two Departure Headings from Runway 27R and Runway 8R





# Hartsfield-Jackson Atlanta International Airport



## **Questions and Answers** **Sustainability Initiatives of** **Hartsfield-Jackson Atlanta** **International Airport**



**Tom Nissalke, Ph.D.**  
**Director – Environmental**  
**and Technical Services**  
**August 6, 2009**

