

Broward County Aviation Department



**Striving for a safe, clean
environment**

Environmental Initiatives



**Fort Lauderdale-Hollywood
International Airport**

Green Projects at FLL

- Rental Car Center
- Pay on Foot
- Cell Phone Waiting Area
- Bus and Taxi Holding Area
- Biodiesel/Hybrid Vehicles
- Efficient cooling/heating
- Water Pollution Prevention
- Recycling
- LEED Standards for new projects
- Energy efficient lighting
- Water conservation
- Hazardous Materials Waste Management
- Green Belt Passive Park

Rental Car Center



- Brought all major rental car companies under one roof
- Consolidated maintenance and fueling operations
- Reduced the risk of petroleum related impacts/eliminated the need for many remote facilities

- Common shuttle busses
- Eliminated 4 million miles of bus trips
- Saved 3 million gallons of fuel
- Reduced roadway congestion



Pay on Foot Program – Electronic Parking Payment

- Located in the Cypress and Hibiscus Garages
- Pay for parking prior to leaving the garage



Quick Pay exit lanes reduce time and reduce emissions

Cell Phone Waiting Area

- 49 convenient, close-in spaces
- Reduces vehicle emissions by giving meeters and greeters a place to wait for their passengers
- Prevents long term parking at curbside
- Keeps vehicles from parking on the roadway system
- Flight Information Displays provide timely flight information



Bus and Taxi Holding Areas

- Reduced queuing of taxis and buses
- Cut down on idle emissions
- Reduced curbside congestion



- Buses and taxis turn off engines until dispatched to pick up passengers

Biodeisel and Hybrid Electric Shuttles



- Common shuttle busses transport passengers to/from terminals, parking facilities, and Rental Car Center

- Reduced roadway congestion

- One of the largest Biodiesel/Hybrid Electric fleets in the US
- First airport in FL to be totally biodiesel
- 56 biodiesel vehicles including 5 biodiesel/hybrid vehicles



Hazardous Materials Waste Management Best Management Practices (BMP)

- BCAD has developed BMPs for storage and disposal of hazardous materials



- Paint
- Fluorescent bulbs
- Oil
- Tires
- Batteries



- Annual cost of recycling is over \$10,000



Recycling

- **18 million tons of solid waste generated annually by airlines, tenants, and facilities**
- **Material is sent to an on site sorting facility**
- **30% or more than 5 million tons are recycled at an on airport facility**

Leadership in Energy and Environmental Design (LEED)

Green Building Rating System

- Provides standards of environmentally sustainable construction
- BCAD became a member of LEED in 2002
- Sponsored 1st workshop in South Florida
- LEED concepts at FLL include:
 - Use of recycled building materials
 - Energy efficient lighting and HVAC systems
 - Low flow water devices, toilets, urinals, automatic shut-off faucets
 - Reflective roof coating



Efficient Cooling and Heating

- Optimization of Heating, Ventilation, and Air Conditioning (HVAC) systems by renovating chillers
- Reduced energy consumption saves \$134,658 annually



- Replaced 55 air handlers
- Upgrade of existing HVAC controls
- Future upgrade chillers and towers

Water Pollution Prevention Storm Water Pollution Prevention Program (SWPPP)

- **Water quality is a major concern of BCAD's Environmental Compliance Group**
- **BCAD works with tenants/facilities to protect the storm water system**
- **Waste discharge can degrade ground and surface water**
- **Prevention plan includes:**
 - **Facility/tenant inspections**
 - **Storm water sampling**
 - **Analysis and report preparation**



Energy Efficient Lighting

Installation of Efficient Lighting Fixtures

- Lighting being upgraded in all terminals and BCAD facilities from T12 to more energy efficient T8 fluorescent lamps and ballasts.
- Saves an estimated 20% to 40% fewer watts
- BCAD participating in a pilot program to replace lighting in the parking garages with a more efficient system that will use 35% less electricity



Green Belt

Passive Park and Noise Barrier



30 acre vegetated earthen berm serves as a beautiful passive park containing diverse vegetation and wetland areas. Also functions as a noise buffer.