



ICAO

ENVIRONMENT



Green Airports in South Africa

Mr. Kenton Sim
CAEP Member – South Africa





International Airports in South Africa

- O R Tambo International Airport
- Cape Town International Airport
- King Shaka International Airport
- Port Elizabeth International Airport
- Bloemfontein International Airport
- Upington International Airport
- Lanseria International Airport
- Polokwane International Airport
- Mafikeng International Airport
- Kruger Mpumalanga International Airport



Outline

- International Airports
 - O R Tambo International Airport (FAOR)
 - Cape Town International Airport (FACT)
 - King Shaka International Airport (FALE)
- Green Practices
 - Environmental Management System
 - Aircraft Noise Management
 - Air Quality Management
 - Energy Conservation and Climate Change
 - Water Resource Management
 - Waste Management
 - Wildlife Strike Hazard Reduction





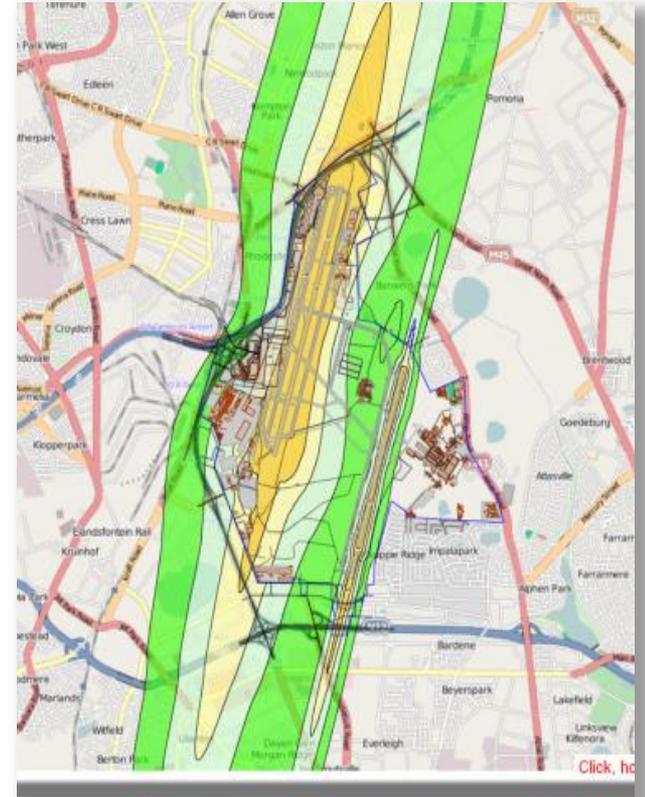
Environmental Management System

- Group Environmental Management System
 - In accordance with ISO 14001 EMS
 - FACT ISO 14001 certified since 2011
- Group Environmental Policy



Aircraft Noise Management

- Noise contours
 - land use planning
- Track aircraft noise complaints
- Noise monitoring and flight tracking systems
- Noise Abatement Operating Procedures
- Airport Restrictions
 - Intersections take-offs
 - Engine run-ups



Air Quality Management

- Air quality monitoring systems installed at FAOR and FACT
- Public transportation is provided to reduce impact on local air quality
- Aircraft Emissions
 - Efficient air traffic management
 - Slot management



Energy Conservation and Climate Change

- Airfield
 - Use of energy efficient lighting (LED)
 - Use of alternatively fuelled ground support vehicles ie battery
 - Contact stands with air bridges are equipped with ground power to reduce aircraft engine use (APU)



Energy Conservation and Climate Change

- Terminal Buildings
 - Energy management systems to monitor and reduce energy use
 - Designed to use natural light
 - Efficient air conditioning systems
- Greenhouse Gas Emissions Inventory



Water Resource Management

- Stormwater run-off is monitored regularly by taking water samples
- Use of low flow plumbing fixtures in buildings
- Use of indigenous vegetation in landscaping
- Use of borehole water for irrigation
- Aircraft wash bays



Waste Management

- Waste is separated and recycling
- Resulted in significant reductions in waste to landfill sites
- % Waste recycled
 - 25% at FAOR
 - 50% at FACT & FALE



Wildlife Strike Hazard Reduction

At FAOR & FALE dogs are trained to deter birds from the runways

Dogs are controlled by dog handlers to ensure they keep off the movement areas



FALE uses bird radar to monitor bird activity





ICAO

ENVIRONMENT



Thank You

