

Emerging trends in airport environmental management: about and beyond environment and airports

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A fast evolving concept to a fast growing industry

Meeting growing capacity demand and sustainably evolving

Being responsible according to the latest scientific evidence

Being more resilient

Bringing others to action

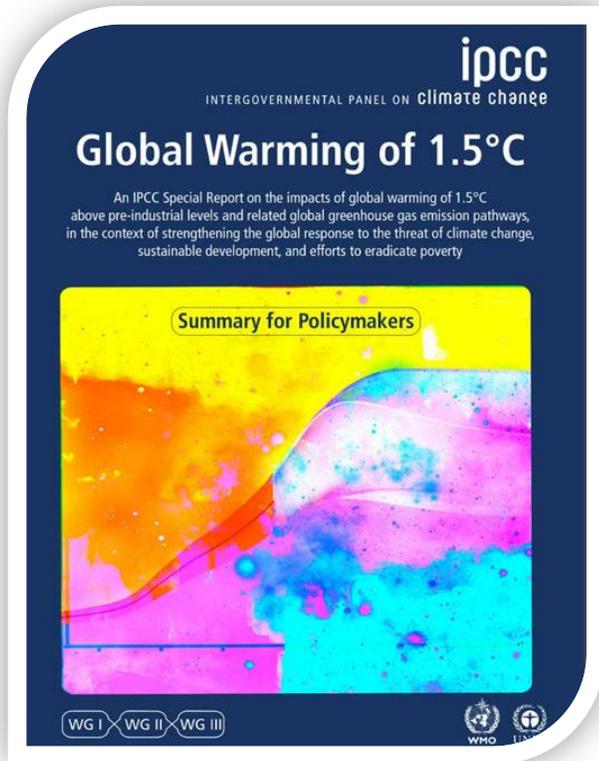
Understanding local/regional differences and limitations

Going beyond environmental impacts

Business to society challenge

- Being part of the communities they serve and adjusting to the change in societal values
- Social outcomes of business investments and business outcome on social investments

Is climate change promoting change in societal values?



#Fridaysforfuture

**Carbon/GHG
Emissions**

**Noise
Management**

Local Air Quality

**New Technologies
Opportunities
Disruption?**

**Encroachment
around airports**

**Airspace
Modernization**

**Waste
Management
Circular Economy**

**Environment
Governance**

Biodiversity

Resilience

Challenges

**Beyond
environment and
the airport**

**Community
Engagement**

**Water
Management**

**Sustainable
Aviation Fuels**

**Fast evolving
society**

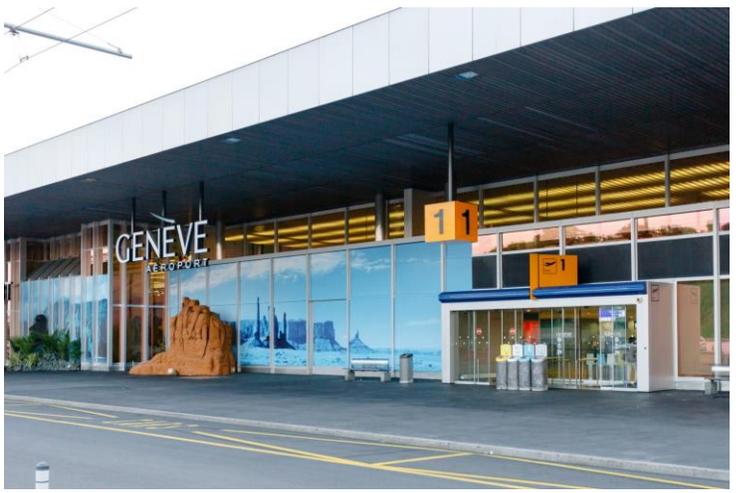
**Building new
infrastructure**

**Operating
Sustainably**

How ACI is responding to these challenges?

- Developing policies and expertise through our Environment Committees
- Developing new programmes, tools, publications and sharing best practices
- Working closely with our members and regions to (re)define and adapt
- Collaborating with ICAO and especially CAEP
- Cooperating with aviation industry stakeholders and our business partners
- Providing training and capacity building initiatives
- Promoting exchange of knowledge and networking opportunities through our global and regional events

ACI Airport Excellence APEX Pilots in Environment Improving Airports' Environment Management



ACI Resolution (2018)

“Encouraging airports to take action on resilience and adaptation to climate change”

ACI encourages member airports to:

- **Consider the impact of climate change in their Master Plans**
- **Conduct risk assessments for operational procedures and existing infrastructure**
- **Develop and take early action in accordance with the assessment, in line with overall business continuity management and emergency planning**

ACI Policy Brief (2018)

“Airports’ Resilience and Adaptation to a Changing Climate”





AGES-S

AIRCRAFT GROUND ENERGY SYSTEM – SIMULATOR



Available at [ACT website](http://www.act.aero)

- Defining environmental and economic benefits of replacing the use of the APU for Aircraft Ground Energy Systems
- Supporting the development of a business case to work in collaboration with stakeholders

Airport Carbon Emissions Reporting Tool - ACERT 5.1

- Updated emission factors
- More options for individual fuels and refrigerants
- Friendly interface

Available at ACI website



- A simple IT solution designed by airports for airports
- Calculates Greenhouse Gas (GHG) emissions at and around the airport
- Produces a comprehensive inventory highlighting KPIs and supporting information

SAMPLE ACERT Airport Greenhouse Gas Emissions Inventory

by Sample Test Manager (Email: my_email@aci.aero)

Identifier	ACI	Operational Data
Airport	SAMPLE ACERT Airport	Passenger Movements 2,150,000
Airport Operator	Airport Operator Ltd	Aircraft Movements 20,000
Country	Canada, OC	Cargo (t) 45,000
ACI Region	North America	Traffic Units for PMLD 2,800,000
Report Date	31-12-2017	Airport Operator Staff (FTE) 150
ACA Level	ACA Level 3+	Average distance to the City (km) 10

Greenhouse Gas Emissions	
Scope Break Down:	
Airport Operator Scope 1 (t CO2e)	449.6
Airport Operator Scope 2 (t CO2e)	17.8
Airport Scope 3 (t CO2e)	15,496.8
Total Gross Emissions (t CO2e)	15,964.2
Offset (t CO2e)	-
Total Net Emissions (t CO2e)	15,964.2

Airport Operator Scope Break Down	
Airline Vessels (CO2)	Scope 1 (t CO2e) 59.7
Buildings (space/cool)	Scope 1 (t CO2e) 222.9
Fire Training	Scope 1 (t CO2e) 5.1
Emergency Generator	Scope 1 (t CO2e) 16.1
Boyscott	Scope 1 (t CO2e) 5.1
Process (Waste/Water)	Scope 1 (t CO2e) 144.8
Electricity purchased	Scope 2 (t CO2e) 17.8
Heat Purchase	Scope 2 (t CO2e) -
Total Scopes 1+2	467.4



ACERT is compatible with all levels of Airport Carbon Accreditation and provides relevant information required for the ACA Online Application.

ACERT@aci.aero



Addressing Illegal Wildlife Trafficking



BEST PRACTICE CASE STUDIES
FROM SELECTED AIRPORTS

Combating Illegal Wildlife Trade



How Airports Can Take Action to Stop Wildlife Trafficking

Illegal Wildlife Trade is a Global Issue

Wildlife trafficking is one of the world's largest illegal trades. This illicit trade exposes passengers and staff to health and safety hazards and harms corporate reputations throughout industry supply chains. It is pushing many species - both animal and plants - to the brink of extinction.

Wildlife traffickers exploit the increasing connectivity of international aviation - targeting

Future Vision

- ACI recognizes the need to adjust policies to the new scientific evidence on CC
- We'll be revising our policies to incorporate new elements such as Circular Economy and Adaptation
- ACI Europe is developing a sustainability strategy
- ACI World is currently working to help airports define Paris-based carbon targets
- We'll be encouraging ATAG and ICAO to set a long-term carbon goal for the whole aviation industry

Conclusions

- Committing to the long-term
- Working in collaboration with all stakeholders
- Evolving together with environment and sustainability trends
- Going beyond environment and beyond the airport
- Communities and society at the core of environment and sustainability plans
- Promoting Capacity Building
- Leaving no airports behind