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ICAO: UNITING AVIATION ON CLIMATE CHANGE

ICAO Colloquium on Aviation and Climate Change

IATA Carbon Offset Program

Jon Godson

**IATA Assistant Director – Environment Best
Practice**





Carbon Offsetting: Aviation

- **Passengers offset share of flight's emissions by investing in carbon reduction projects that generate carbon credits**
- **Voluntary carbon offset market worth US\$400 million (2008)**
- **No information-sharing, "real balance" of aviation's emissions not known**
- **32 IATA airlines offer offsets using different calculators, providers and investing in carbon projects with variable quality**
- **Passengers are confused, sceptical and pick-up rates are low**
- **In response, IATA developed:**
 - **industry offset guidance manual, and,**
 - **IATA Offset Program**



IATA Carbon Offset Program: Key Advantages

- Easy and convenient one-stop-shop for airlines**
- Saved resources on development, management and administration**
- Harmonised approach for carbon emissions and future reporting**
- Carbon offsets via travel agents and GDS will be included**
- Ability to negotiate project purchases at greater scale and better cost**
- Basis for a transparent, robust and auditable carbon accounting**



IATA Carbon Offset Program: Design Criteria

Criteria includes:

- ✓ **offers standard methodologies based on best practice,**
- ✓ **single customer transaction,**
- ✓ **use of IATA financial management platforms,**
- ✓ **low/no financial risk to airlines/IATA,**
- ✓ **independent validation,**
- ✓ **offset tracking through ticketing codes (interlineable),**
- ✓ **investing in credible emission reduction projects (with national or historic/cultural link to airline)**
- ✓ **Partnering with leading carbon project provider with over 350 projects in pipeline (31 delivered)**

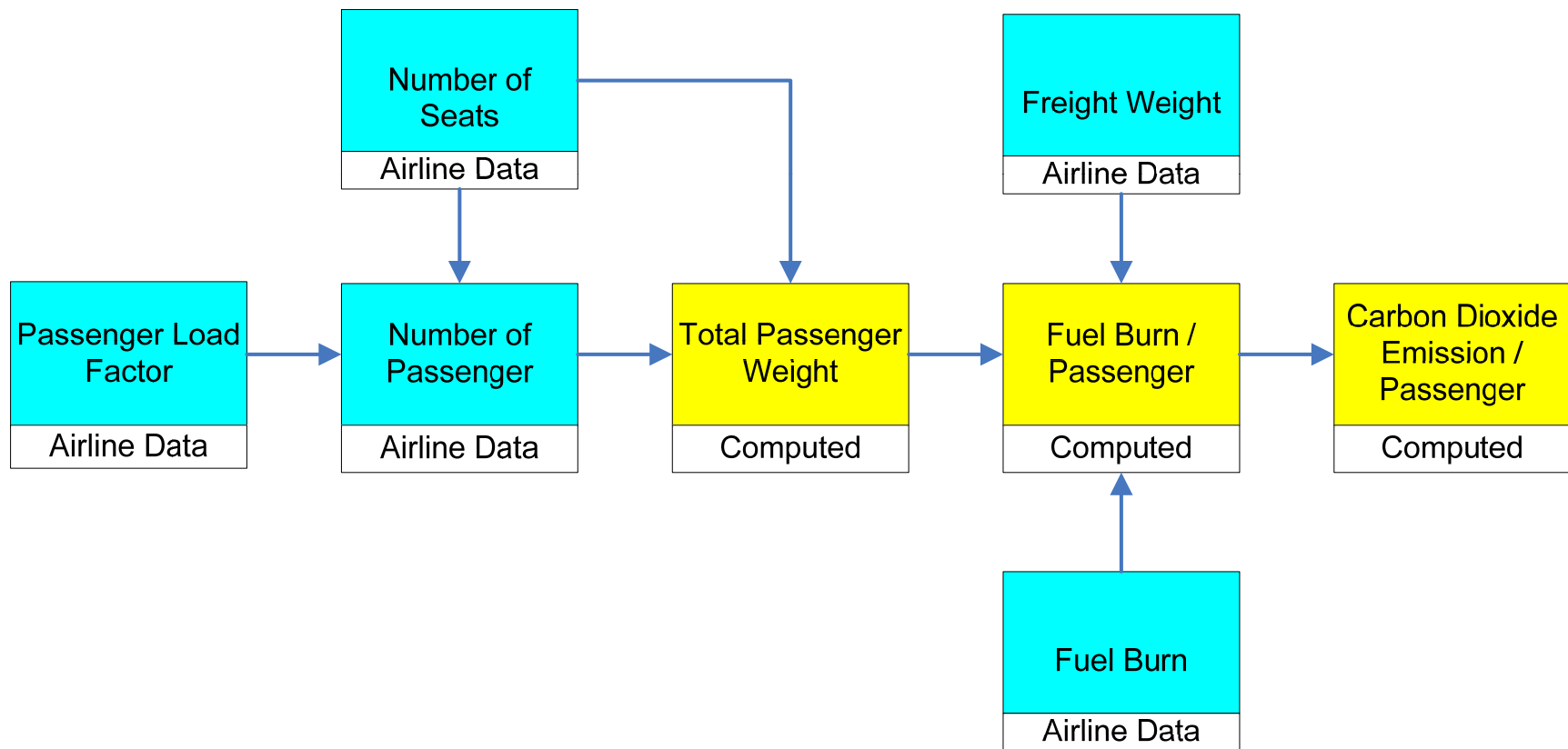


IATA Carbon Calculator Tool: Background

- Proliferation of aviation carbon calculators cause passenger confusion**
- Most calculators are based on generic aircraft efficiency models (distance multiplied by an emission factor)**
- Very few use actual airline data (fuel burn, load factor, seat configuration)**
- IATA Carbon Calculator based on the ICAO methodology (Section 7 – Recommendations) uses actual data**



IATA's Carbon Calculator Tool



Note: All values are the average across all flights for the city pair flown



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IATA Carbon Offset Program: Quality Assurance

- **Quality is key issue for passenger interest**
- **Passengers are more sensitive to quality than price**
- **Passenger scepticism regarding carbon calculation and project validity significantly impacts uptake rates**
- **IATA Program and IATA Carbon Calculator Tool, validated by independent offset quality assurance (QA) scheme**
- **Allowed to use Offset QA “logo”**




direct.gov.uk/offsetting



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IATA Carbon Offset Program: TAP Screen Shots (1)





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A STAR ALLIANCE MEMBER


Book your flight online

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Itinerary Review

Please review your flight details carefully. Intermediate stops and other important information will be shown if applicable.

Flight	Product	From	To	Departure	Arrival	Cabin	Miles
TP0424 <small>TAP</small>	<small>tap classic</small>	Lisbon	Paris (CDG)	10 Jun, 07h20	10 Jun, 10h55	Economy	458

Departure from Lisbon on Terminal 1. Arrival at Paris on Terminal 1.

AIRPORT CODES:
CDG - Charles de Gaulle

Please check your flight details at left.

[Know all about TAP Products](#)

Offset your Carbon Emissions


Please be aware that your carbon offset contribution isn't mandatory and can not be refunded once it is paid. TAP does not benefit from this Programme.

Total Distance for this itinerary (km): 1471
CO2 emission for this itinerary (tonnes): 0.189

Total offset cost 2,59 EUR per person

[Which Project am I helping?](#)

Add the contribution amount to my flights



Help the Environment and reduce the impact from your flights by offsetting your carbon emissions.
Your money will be donated to U.N. certified emission reduction projects.



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IATA Carbon Offset Program: TAP Screen Shot (2)

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SEARCH SELECT **PURCHASE** CONFIRMATION

Itinerary R
Please review your flight

Flight **Pr**
TP0424 TAP

Departure from Lisbon

Offset you
Please be aware that you are participating in the TAP Carbon Offset Programme.

Total Distance for this flight: 458 Miles
CO2 emission for this flight: 19,024 tonnes

Total offset cost 2,51

Which Project am I helping?

Add the contribution amount to my flights

Aquarius Hydroelectric Project

The Aquarius Hydroelectric Project is a small-scale, renewable energy project in Brazil. The project is a grid connected run-of-river hydropower plant (with no dam or flooding) at Itiquira, Mato Grosso State, Brazil and is registered under the United Nations Framework Convention on Climate Change (UNFCCC) Clean Development Mechanism (CDM). The project has an installed capacity of 4.2 MW and utilises the water of the Correntes river. It partly replaces fossil fuel-based electricity generation and is expected to reduce greenhouse gas (GHG) emissions by approximately 15,000 tonnes CO2 equivalent per year. The independent verification report confirmed that, in the period between 15 December 2006 and 31 December 2007, the project reduced emissions by 19,024 tonnes CO2 equivalent.

AIRPORT CODES:
CDG - Charles de Gaulle

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Know all about TAP Products

Help the Environment and reduce the impact from your flights by offsetting your carbon emissions. Your money will be donated to U.N. certified emission reduction projects.



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IATA Carbon Offset Program: Current Status

➤ **TAP launched on 5 June 2009**



➤ **21 December 2009: TAP received a “Planet Earth Award 2010”, in category of “Most Innovative Sustainable Product”, by UNESCO**



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IATA Carbon Offset Program: Airline Partners





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IATA Carbon Offset Program: GDS Partners

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IATA Offset Program: Next Steps

- **Encourage additional airlines to join Program**
- **Support development of aviation-related offset projects**
- **Develop Phase II solutions:**
 - **corporate and retail shops;**
 - **frequent flyer miles (FFM);**
 - **cargo offsets;**
 - **GDS; and,**
 - **on-line travel agents**





IATA Offset Program: Summary

- **IATA launched an award-winning Offset Program with TAP in June 2009**
- **7 airlines due to go “live” in June/July 2010**
- **Independent validation by UK Offset QA Scheme**
- **Invests in UN-backed credits with geographical connection to airline**
- **Carbon calculator based on actual airline data**
- **Developing new sales routes and offset products**



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