



World Food
Programme

SAVING
LIVES
CHANGING
LIVES

WFP Aviation Service

Environmental & Sustainability programme

ICAO-WFP Aviation Safety Campaign | 2-3 March 2023 | Neuilly-sur-Seine, France

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UN General Assembly information & SDGs

Since 2007, under the UN Climate Neutral Strategy, all UN agencies, funds and programs (UN AFP) have committed to measure, reduce and then offset any greenhouse gas emissions that cannot be avoided. More specifically, the Strategy is aimed at achieving the following three goals:

1

Estimate annual greenhouse gas emissions with accepted international standards.

2

Undertake efforts to reduce greenhouse gas emissions.

3

Analyse cost implications and explore modalities of purchasing carbon offsets.



WFP Corporate Environmental Policy

WFP embraces the vision of the 2030 Agenda for a world free from hunger in a context of socially equitable and environmentally responsible:

- Enhancing the environmental sustainability of activities and operations, improving efficiency;
- Protecting the environment and preventing pollution;
- Minimizing the carbon footprint and increasing the resource-efficiency of operations;
- Aligning WFP's approach to environmental sustainability with global standards;
- Strengthening the understanding and capacities of national governments, cooperating partners, suppliers and, particularly, beneficiary communities in planning and implementing sound activities for food security and nutrition.

WFP Aviation Service

Environmental & Sustainability programme

WFP Aviation Service Environmental & Sustainability Programme sets several specific objectives to drive the WFP Aviation Service in achieving further progress in climate and environmental responsibility:

- Measure, report and reduce carbon emissions;
- Promote alternative fuels;
- Increase operational efficiency;
- Optimize flight procedures (CO2 & noise reduction);
- Elaborate a carbon offset strategy in synergy with WFP corporate.

WFP Aviation Service

Environmental & Sustainability programme

The present Program is linked to the WFP Aviation Service strategy and is structured according to the following WFP corporate environmental pillars:

WE MEASURE

Sets up processes and adopts appropriate methodologies to identify environmental risks and measures impacts associated with WFP Aviation Service's activities, in particular greenhouse gas emissions.

WE REDUCE

Defines, implements, and monitors measures aimed at reducing the overall environmental footprint of the WFP Aviation Service.

WE OFFSET

Defines offsetting framework applicable to humanitarian operation to reach the carbon neutrality engaging all the operational and technical stakeholders.

WFP Aviation Service Environmental impact

2022 figures



415,000

passengers transported



26,500 MT

cargo transported



110

aircraft



151,210 MT

Carbon dioxide (CO₂)

Emissions comparable to a mid-size air carrier



UNHAS

Humanitarian Air Service

Net Zero 2050

Long-Term Aspirational Goals

- Fuel-producing companies bringing large scale, cost-competitive sustainable aviation fuels **(SAF)** to the market;
- Governments and air navigation service providers (ANSPs) eliminating inefficiencies in **air traffic management & infrastructures;**
- **Increasing operational efficiency &** Optimizing flight procedures (CO2 & noise reduction);
- **Aircraft and engine** manufacturers producing radically more efficient airframe and propulsion **technologies;**
- **Offsetting.**



...Reality Check

How to bridge the gap?

Sustainable Aviation Fuel

- SAF production **must not** take away from food resources;
- Spark donor and fuel broker engagement;
- Participating in SAF advocating campaigns and stakeholder roundtables.



...Reality Check

How to bridge the gap?

Improving air traffic management
& infrastructures

- Advocacy toward:
 - Local civil aviation authorities;
 - Airport authorities.
- Encourage ATM trainings;
- Share best practices;
- More direct flight paths lead to shorter flying times, which reduce fuel burn and resulting emissions.



B1900 fuel consumption = **400 litres/hr**



MI8 fuel consumption = **700 litres/hr**



Emissions due to go-arounds/low passages in
2021 = **100mt**

equal to **25** cars used for one year

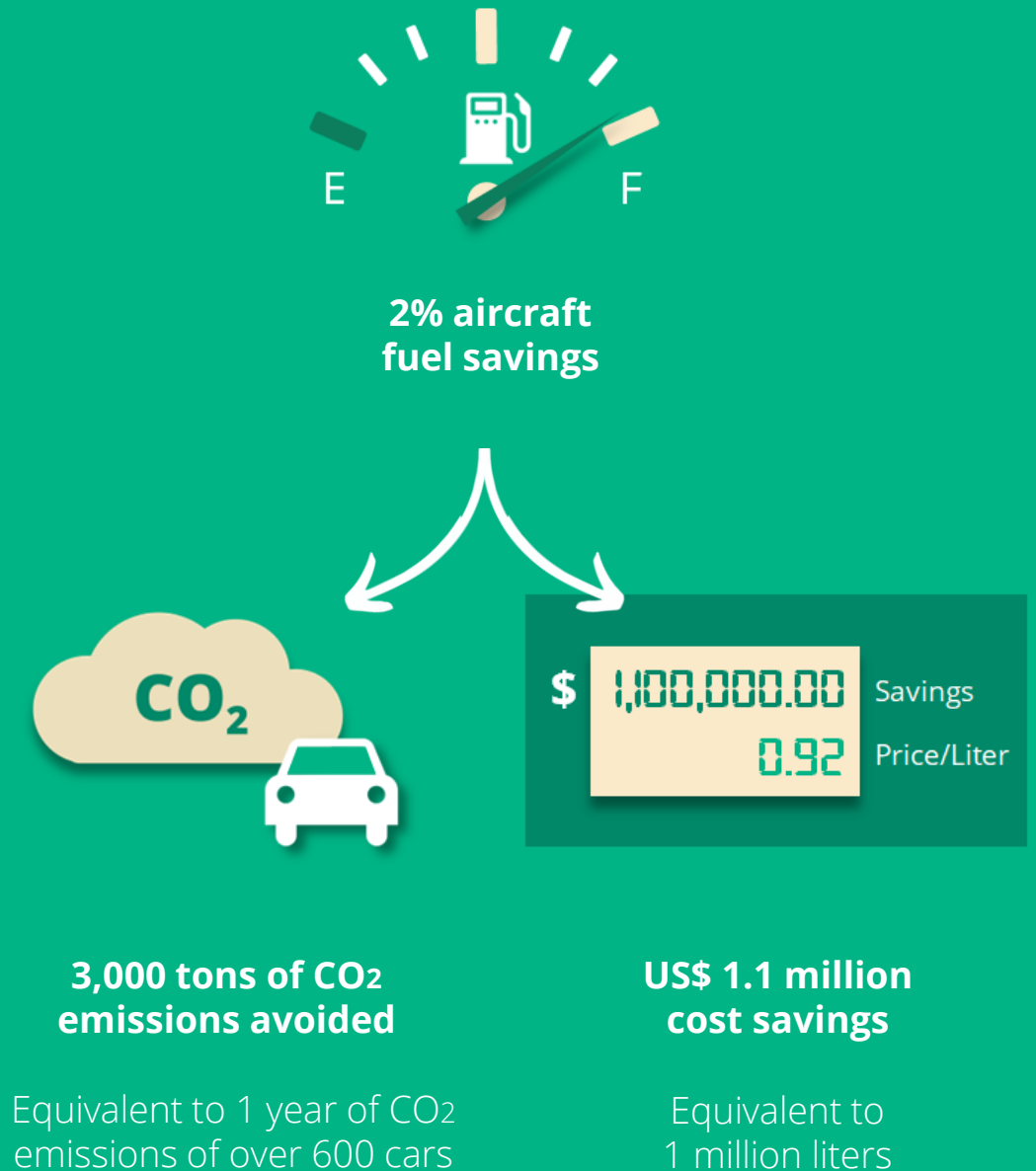
...Reality Check

How to bridge the gap?

Increasing operational efficiency

Case studies conducted to assess operational opportunities to minimize aircraft fuel usage and emissions :

- **2% decrease of fuel consumed** when ICAO Doc 10013 technical measures were implemented by selected operators on four WFP aircraft for three months;
- **Potential 1 million USD per year net savings** of fuel purchased;
- **Second Case study** covering 50% of long-term chartered fleet: results have confirmed the saving margin.



...Reality Check

How to bridge the gap?

New technologies

- Expand our network of manufacturers and game-changer companies to keep abreast of upcoming technologies;
- Donor advocacy;
- Participation in technical roundtables;
- Electric and hydrogen-powered flight remains the ultimate goal.



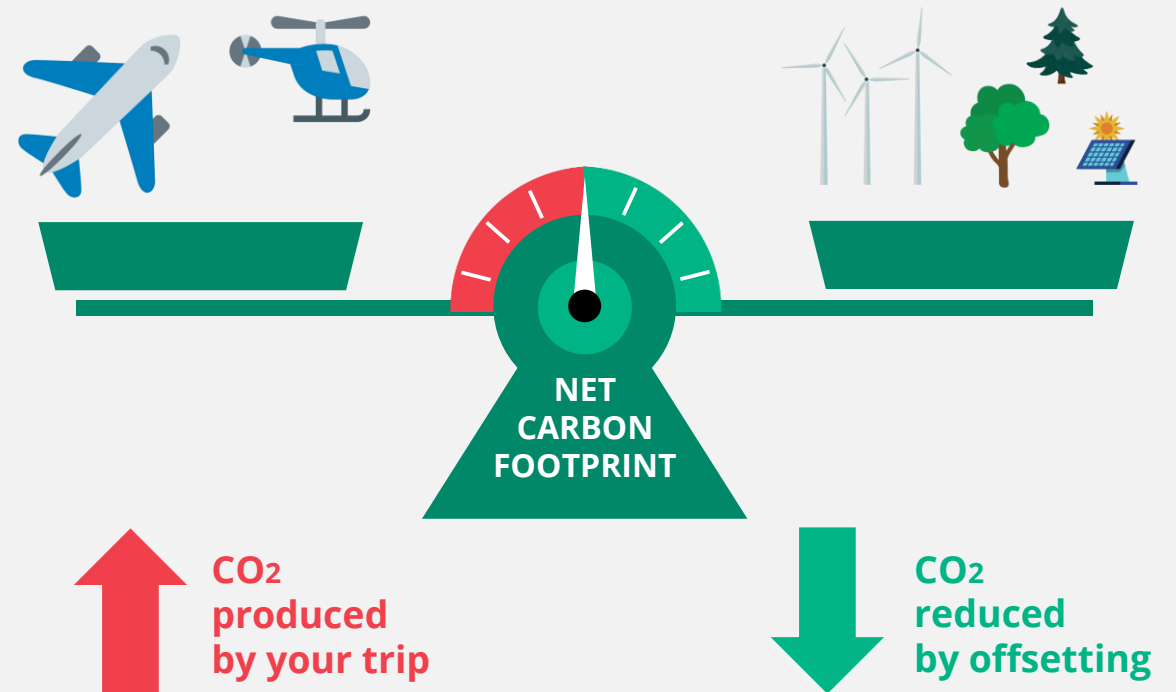
...Reality Check

How to bridge the gap?

Offsetting

- **Avoid Greenwashing:** instead of using offsetting as a magic bullet, make investments to significantly reduce carbon footprint;
- Ensure offsetting projects are respectful of the local populations and ecosystems;
- The WFP Aviation Service is still identifying the most appropriate offsetting methodologies in order to compensate emissions at passenger and corporate levels.

**CARBON OFFSETS ALLOW
YOU TO BALANCE OUT
YOUR EMISSIONS**



Environmental & Sustainability programme

Key achievements :

- **Aircraft CO2 emission calculation methodology** with environmental KPIs established
- Enforce **EMS as a minimum contracting requirement**
- **Environmental component** integrated into contracting and procurement processes, donor proposals and reports
- **Case studies conducted** to assess operational opportunities to minimize aircraft fuel usage
- Provide basic environmental **training** to our staff
- Launch and promote pax **awareness-raising campaigns**.
- Use **ground electricity as a primary option** instead of Ground Power Unit (GPU).
- **Extended series of operational opportunities to reduce fuel burn and emissions** has been drafted, further discussion will be held with the contracted Air Operators



Other ongoing projects

WFP Aviation Service Cabin Waste Management Guideline pursues two main objectives:

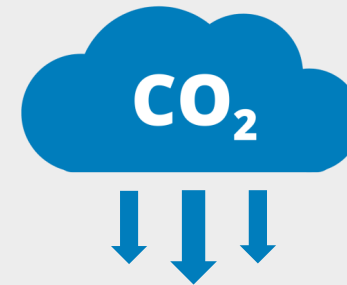
1

Tackle Cabin waste through implementation of cabin waste management practices.



2

Contribute to the reduction of the carbon footprint associated with the generation and inadequate management of cabin waste.



Other ongoing projects

The Guideline will be implemented in the following main steps:



Preparatory actions to undertake detailed inventory of the waste fractions per type of flight, analysis of potential re-use and waste minimization opportunities, consultations with key stakeholders and design of the segregation process.

Implementation actions to undertake training of air carriers' crew and AFO staff, adjustments for the new waste segregation process.



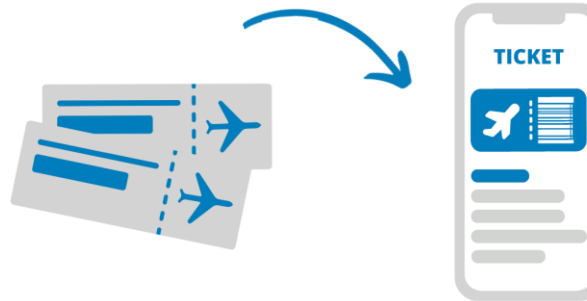
Public awareness and dissemination of results to roll out the activities to engage not only the passengers on board but also other stakeholders and communities at national and UN level.

Other ongoing projects

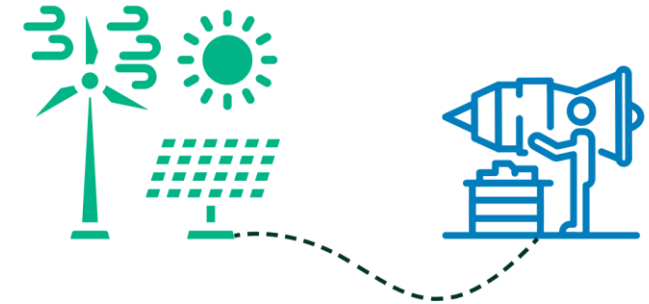
Waste management guideline



Paperless ticket options test phase



Green Energy for ground handling equipment



Humanitarian Aviation Stakeholders

Challenges & Opportunities

- Pooling of environmental best practices;
- Common advocacy towards donors to find balance between operational needs and financial constraints;
- Share our CO2 reduction actions.





THANK YOU



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