



## ***RWANDA*** ***Progress Update***

Second Phase of the ICAO Assistance Project with the EU Funding :  
*“Capacity Building for CO<sub>2</sub> Mitigation from International Aviation*

**3 to 5 April 2023**  
**Harare, Zimbabwe**

**Charlene Umubyeyi**  
**Alternate Focal Point**





## Agenda

1. Use of the Aviation Environmental System (AES) IN RWANDA
  - ❖ Training
  - ❖ Data Providers
  - ❖ Data collection and Monitoring
2. Mitigation Measures – Implementation Progress
3. Challenges related to the implementation of mitigation measures



## USE OF AES IN RWANDA

- AES was installed on RCAA server
- 10<sup>TH</sup> -14<sup>TH</sup> October 2022 The project consultant Conducted Training for RCAA environment Team on Aviation Environment system (AES)
- 5 Staff from Rwanda CAA and 1 from RwandAir were trained
- Training ended with the meeting of members of the National committee on implementation of Civil Aviation Environmental protection in Rwanda



## DATA PROVIDER

- RwandAir is the only data provider for the moment
- It provides services domestically and internationally with base at Kigali International Airport. (2 domestic destinations and more than 23 international destinations in 20 countries)
- The Airline is a member of the International Air Transportation Association (IATA), and an EASA, IOSA and ISAGO certified operator
- RwandAir fleet of is made of (A330s, B737NGs, DASH-8 Q400, CRJ-900NG)
- RwandAir conducts Passenger and cargo operations.





## DATA COLLECTION

- RwandAir submits traffic statistics with fuel consumption data on a quarterly basis
- Data collected consists of Flight number, Dates of departure, Airline code, Origin of the flight, Destination, Aircraft Type, Seats available, passengers carried on that flight, payload, Freight carried, mail, scheduled, and Fuel consumed



# MITIGATION MEASURES IMPLEMENTATION PROGRESS

## Rwanda Selected 30 Mitigation Measures

- Technology and Standards
- Sustainable Aviation Fuels
- Operational Improvements
- Airport Improvements
- MBM (CORSIA)



## Technology and Standards

- **Fuel efficiency Program** : RwandAir has amended Operations documentations on fuel efficiency to include recommended practices for flight crew to follow and minimize fuel burn.(in process to acquire fuel efficiency monitoring systems called fuel Dashboard)



## Operational & Airport Improvements

- Aircraft Parking
- Improvement in Apron Management
- Increased parking capacity at the apron
- Use of EFB on RwandAir fleet
- All classic lights have been replaced by LEDs At KIA
- Electric Airport Taxis



## NEW BUGESERA AIRPORT

- Bugesera International Airport is a new airport being developed in Rwanda, and is expected to become one of the most eco-friendly airports in the world
- Renewable energy and energy efficient Lighting and ventilation systems
- Bugesera International Airport Rwanda is seeking LEED certification





# Sustainable Aviation fuels

- Rwanda is participating in the ACT-SAF Programme
- Rwanda will receive technical assistance for a feasibility study on SAFs



International Civil Aviation Organization    Organisation de l'aviation civile internationale    Organización de Aviación Civil Internacional    Международная организация гражданской авиации    منظمة الطيران المدني الدولي    国际民用航空组织

Re Ref: ENV 8/1.1    23 March 2023

Mr. Silas UDAHEMUKA  
Director-General  
Rwanda Civil Aviation Authority

Dear Director-General UDAHEMUKA,

I wish to refer to the International Civil Aviation Organization (ICAO) Assistance Project with European Union (EU) Funding Phase II: Capacity Building for CO<sub>2</sub> Mitigation from International Aviation. Under this Project, the Government of Rwanda successfully submitted a State Action Plan in March 2022 following the guidance within ICAO Doc 9981: *Guidance on the Development of States' Action Plans on CO<sub>2</sub> Emissions Reduction Activities*. In the Action Plan, your State outlined several mitigation measures to reduce CO<sub>2</sub> emissions from international aviation, including the development and use of Sustainable Aviation Fuels (SAFs). Furthermore, additional assistance was requested to conduct a feasibility study on the development of SAFs. It is my pleasure to inform you that the Government of Rwanda will receive technical assistance for a feasibility study on SAFs as part of this Project. This initiative is intended to unlock the full potential of SAFs in order to contribute to significant CO<sub>2</sub> emissions reduction benefits for international aviation.

As per previous correspondence, ICAO is in the process of initiating the recruitment of Consultants to conduct the feasibility study, and additional information concerning the start date will be provided in due course. It would be appreciated if you could confirm, for the records, that the aforementioned feasibility study will receive the full support of the Civil Aviation Authority, and that access to relevant resources will be made available for the Consultants to conduct the study. Your feasibility study will be a key part of the ICAO Assistance, Capacity-building and Training for Sustainable Aviation Fuels (ACT-SAF) programme, which aims to create opportunities for States to develop their full potential in SAF development and deployment and showcase ICAO's achievements and further efforts for decarbonising aviation. As an immediate step towards beginning the feasibility study, I would kindly request that you join the ACT-SAF initiative by agreeing to the Terms and Conditions.

Should you require any additional information, please do not hesitate to contact the Office of Environment at: [Officesm@icao.int](mailto:Officesm@icao.int)

I look forward to the continued collaboration with the Government of Rwanda on this initiative.

Yours sincerely,

Mohamed Khalife Rahma  
Director  
Air Transport Bureau

cc: Representative of Ethiopia on the Council of ICAO  
Representative of Equatorial Guinea on the Council of ICAO  
ICAO Regional Director, Nairobi



# Market Based Measures

## CORSIA IMPLEMENTATION IN RWANDA

- Rwanda joined CORSIA in 2019
- Rwanda has domesticated provisions of Annex 16 Vol 4 in our the national regulations
- RwandAir has been monitoring , reporting and verifying its emissions since 2020-to date
- Rwanda CAA every year submits verified emissions report to ICAO through CCR



## Challenges

- Data Collection
- Insufficient training for the National committee on the implementation of Civil Aviation Environmental protection



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THANK YOU