



# Republic of Botswana Progress Update

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

**Third Meeting**  
**25 to 27 July 2023**



**Name**  
**Oarabile Tiny Podisa  
& Malebogo Mdojwa**



# Agenda

- ✓ Aviation Environmental System (AES)
- ✓ Mitigation Measures - Implementation Progress
- ✓ Major challenges related to the implementation of mitigation measures



# AVIATION ENVIRONMENTAL SYSTEM (AES)



AES installation was done on the 1<sup>st</sup> of April 2022

ICAO project consultant met and briefed the CAAB executive management (19 September 2022)



Training on AES to Focal points was conducted from the 19<sup>th</sup> to the 23<sup>rd</sup> of September 2022



# MONTHLY AVIATION CO<sub>2</sub> REPORT

Apr-23

## Botswana

State-level report 1 reporting airline(s)

ICAO definition for international flights

### KEY METRICS FOR INTERNATIONAL AVIATION

FLIGHTS	RTK (tkm)	FUEL BURN (L)	CO2 EMISSIONS (t)	FUEL EFFICIENCY (L/tkm)
227	398,377	340,389	860	0.854

# MONTHLY AVIATION CO<sub>2</sub> REPORT

May-23

## Botswana

State-level report 1 reporting airline(s)

ICAO definition for international flights

### KEY METRICS FOR INTERNATIONAL AVIATION

FLIGHTS	RTK (tkm)	FUEL BURN (L)	CO2 EMISSIONS (t)	FUEL EFFICIENCY (L/tkm)
226	344,446	314,486	795	0.913



## MITIGATION MEASURES IMPLEMENTATION PROGRESS

### Assistance, Capacity-building and Training for Sustainable Aviation Fuels (ACT-SAF)

- ❑ ACT SAF was identified as one of the Mitigation Measures in the Action Plan for the reduction of CO<sub>2</sub> emissions
- ❑ Botswana has joined ACT-SAF in December 2022 and continues to benefit from capacity building and training
- ❑ Botswana would like to Conduct feasibility study for SAF through this project



## MITIGATION MEASURES IMPLEMENTATION PROGRESS

### Air Traffic Management

- En-route PBN using flexible tracks has been implemented
- Implement en-route PBN using flexible tracks
  
- CAAB to commence coordination of flexible use of civil-military airspace (April 2023)
  
- Improve Runway traffic flow through sequencing (AMAN/DMAN) especially in Maun airport
- Implement CCO and CDO in all Botswana international airports



## MITIGATION MEASURES IMPLEMENTATION PROGRESS

### CORSIA

- Botswana volunteered to participate in CORSIA
- The 6th of June 2022 civil aviation CORSIA regulations were published
- Identified 2 scheduled operators (Air Botswana & Mack Air)



## MITIGATION MEASURES IMPLEMENTATION PROGRESS

### AIRPORT OPERATIONS

- ✓ Installation of LED Lights at all 4 International airports (Tender has been published)
- ✓ Botswana will conduct a feasibility study for the solar panel project and submit to ICAO with a request to be funded for the project implementation
- ✓ Priority to be given to Maun IA and SSKIA which have the highest electricity consumption
- ✓ Botswana held a meeting with South Africa CAA regarding a benchmarking exercise of the Upington Airport solar farm (date to be set). Considering 2 more states to benchmark with
- ✓ A project team has been identified to come up with the scope for the study and we will require assistance from ICAO





## CHALLENGES FACED

- Lack of funds to train relevant personnel and stakeholders
- Need to establish office of environment-work in progress
- Lack of data and late submission from operator



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THANK YOU