



Republic of Botswana Progress Update

Second Phase of the ICAO Assistance Project with the EU Funding :
“Capacity Building for CO₂ Mitigation from International Aviation”

3 to 5 April 2023
Harare, Zimbabwe

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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 1st 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 19th to the 23rd of September 2022



MONTHLY AVIATION CO₂ REPORT

Jan-23

Botswana

State-level report

1 reporting airline(s)

ICAO definition for international flights

KEY METRICS FOR INTERNATIONAL AVIATION

FLIGHTS
155

RTK (tkm)
301 286

FUEL BURN (L)
222 320

CO2 EMISSIONS (t)
562

FUEL EFFICIENCY (L/tkm)
0,738

MONTHLY AVIATION CO₂ REPORT

Feb-23

Botswana

State-level report

1 reporting airline(s)

ICAO definition for international flights

KEY METRICS FOR INTERNATIONAL AVIATION

FLIGHTS
164

RTK (tkm)
307 603

FUEL BURN (L)
270 468

CO2 EMISSIONS (t)
684

FUEL EFFICIENCY (L/tkm)
0,879



MITIGATION MEASURES IMPLEMENTATION PROGRESS

Air Traffic Management

- ✓ en-route PBN using flexible tracks has been implemented
- ✓ 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)



Botswana has joined ACT-SAF and continues to benefit from the initiative

Following successful completion of SAP Botswana hopeful to be one of beneficiaries of ICAO-EU Project to

- ❖ Conduct feasibility studies for SAF and solar panel farm
- ❖ Installation of floor tiles that convert kinetic energy from footsteps into electricity

Botswana University of Agriculture and Natural Resources

Agri-voltaic is a concept that combines food production, both crops and livestock under the shade of solar panels and production of photovoltaic electricity.





CHALLENGES FACED

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



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THANK YOU