

# MITIGATION MEASURES CHOSEN BY ZAMBIA FROM THE BASKET OF MEASURES

From the basket of measures, Zambia chose to implement “Air traffic management(ATM) and improved operations.





# Zambia Civil Aviation Authority submitted its first State action Plan in November 2017

- ▶ ICAO'S BASKET OF MEASURES
- ▶ ICAO has identified the following areas that can contribute to the attainment of the global aspirational goals:
  - ▶ 1) Aircraft related technology and standards
  - ▶ 2) Improved air traffic management and operational improvements
  - ▶ 3) Development and deployment of sustainable aviation fuel
  - ▶ 4) CORSIA

# Zambia Civil Aviation Authority

- ▶ In 2018, Zambia Civil Aviation Authority held a meeting with the aircraft operator, Proflight Zambia, to agree on the mitigation measures to be implemented by the aeroplane operator.
- ▶ In January 2019, the implementation of CORSIA commenced and Proflight Zambia began collecting data which was later sent to VERFAVIA Singapore for verification.
- ▶ In January 2020, the aeroplane operator submitted verified emissions to Civil Aviation Authority for carrying out of order of magnitude check and onward transmission to ICAO CORSIA Central Registry (CCR).



# USE OF ICAO EMISSIONS BENEFIT TOOL (EBT)

- ▶ Using the 2019 verified emissions, and the RTK from the baseline, we were able to use the EBT to come up with the updated Expected results which we used to update our State action Plan(SAP).
- ▶ Following ICAO's Request for states to update their action Plans Every three years, Zambia submitted an updated action plan to ICAO in 2020 using the expected results shown below.



## Expected Results

Expected results represent the projected fuel consumption and CO<sub>2</sub> emissions (i.e. after implementation of mitigation actions) that the State envisages to reach.

Year	Total RTK	International RTK	Total Fuel (litres)	International Fuel (litres)	International Fuel Efficiency	Total CO2 Emissions (kg)	International CO2 Emissions (kg)
2019		35,076,893.0		1,836,274.0	0.1		4,642,103.0
2020		36,690,430.0		1,925,304.8	0.1		4,867,170.6
2021		38,378,190.0		2,018,430.2	0.1		5,102,591.3
2022		40,143,588.0		2,115,839.1	0.1		5,348,841.2
2023		41,990,192.0		2,217,729.0	0.1		5,606,418.8
2024		43,921,741.0		2,324,305.8	0.1		5,875,845.0
2025		45,942,141.0		2,435,785.0	0.1		6,157,664.5
2026		48,055,479.0		2,552,392.4	0.1		6,452,448.0
2027		50,266,031.0		2,674,363.6	0.1		6,760,791.3
2028		52,578,269.0		2,801,945.6	0.1		7,083,318.5
2029		54,996,869.0		2,935,396.3	0.1		7,420,681.9
2030		57,526,725.0		3,074,985.8	0.1		7,773,564.2
2031		60,172,954.0		3,220,996.3	0.1		8,142,678.8
2032		62,940,910.0		3,373,723.5	0.1		8,528,772.9
2033		65,836,192.0		3,533,475.9	0.1		8,932,627.0
2034		68,864,657.0		3,700,577.1	0.1		8,355,058.8
2035		72,032,431.0		3,875,364.9	0.1		8,997,422.4
2036		75,345,923.0		4,058,192.8	0.1		10,259,111.5
2037		78,811,836.0		4,249,430.9	0.1		10,742,561.4
2038		82,437,180.0		4,449,466.0	0.1		11,248,250.0
2039		86,229,290.0		4,658,702.7	0.1		11,777,200.3
2040		90,195,838.0		4,877,564.3	0.1		12,330,482.0



# SUBMISSION TO ICAO THROUGH ACTION PLAN ON EMISSIONS REDUCTION (APER) WEBSITE.

- ▶ Zambia updated its action Plan using the 2019 verified emissions which was submitted to ICAO Action Plan on Emissions Reduction (APER ) website using the manual uploading method.
- ▶ Considering that the other information like details of focal point person still remained unchanged, we pressed the “next” button on the APER web page until we reached the expected results part.
- ▶ We discarded the old baseline expected results and replaced them with the new EBT results from 2019 input and the system updated the expected results automatically.
- ▶ This is how Zambia Updated Its action Plan on the ICAO APER website.



THANK YOU

