

EMBRACING
ENVIRONMENTAL
SUSTAINABILITY:
A 748 AIR SERVICES
EXPERIENCE
BY
GEORGE ODUOR,
ENVIRONMENTAL MANAGER



www.748airservicesltd.com

SENIOR MANAGEMENT COMMITMENT

- EMS Policy and Manual developed and Approved
- Environmental Sustainability incorporated into our Core Values
- Domestication of Environmental Management Systems
- SMART Environmental Objectives 2024 and Performance Monitoring



OUR APPROACH

- Environmental Managements Systems implementation and Certification by SGS; ISO 14001:2025
- Fuel efficiency and Operational measures : Three step approach of Measuring, Monitoring and Reducing
- Eco-friendly products on board, Environmentally friendly solutions
- Socio-enviro-economic balanced approach – partnerships
- Sustainable Aviation Fuel outlook and Voluntary carbon offsetting programs
- Promotional Programs, Capacity Building and Training
- Collaboration with Stakeholders, Interested parties and Partners
- Environmental Performance



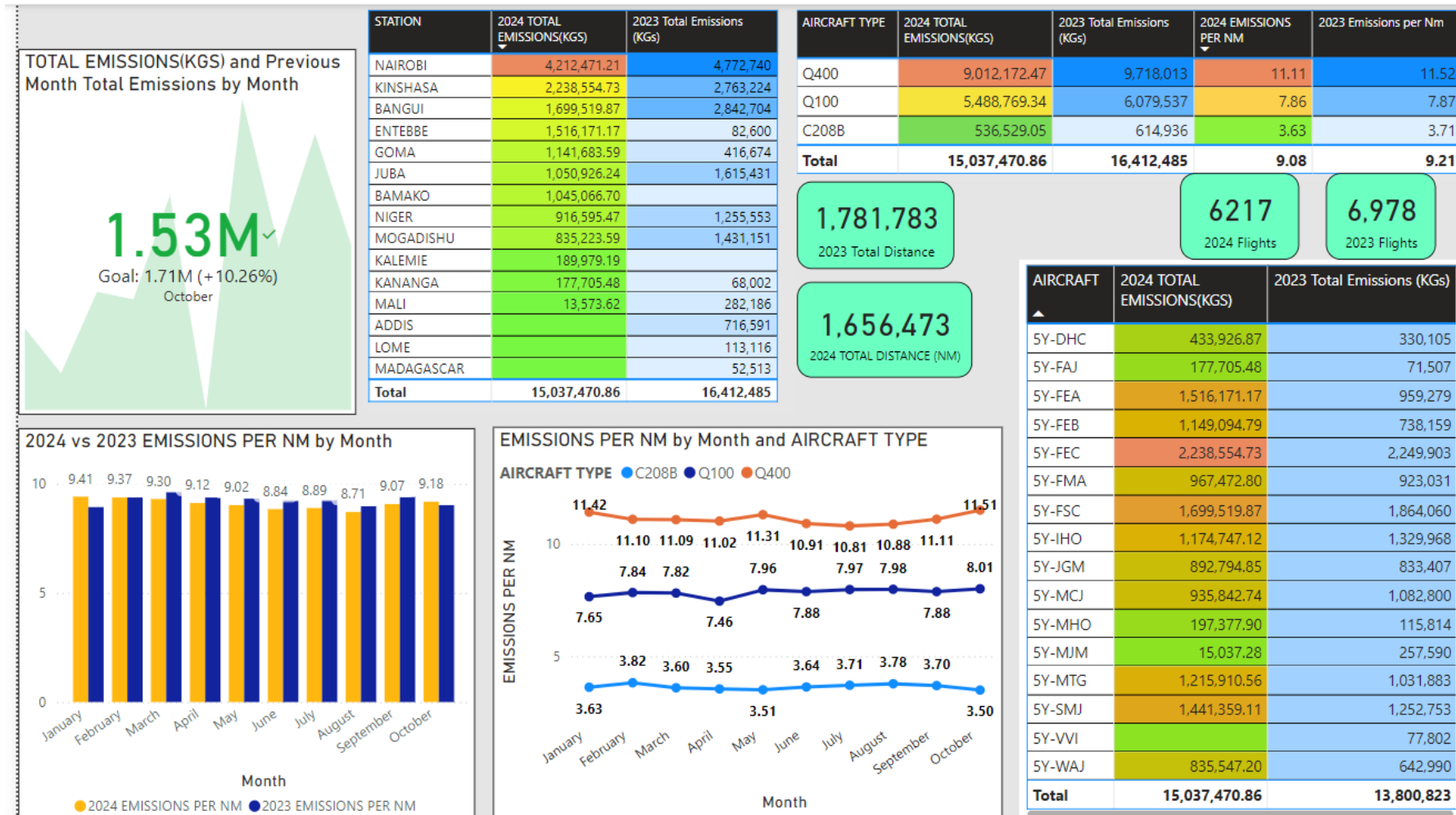
ISO 14001:2015 CERTIFICATION PROCESS BY SGS

- Stage 1 audit conducted - 16th September 2024
- Stage 2 audit conducted - 7th – 11th October 2024
- Approved by SGS for certification.

ISO 14001:2015 is an internationally agreed standard that sets out the requirements for an environmental management system.



FUEL EFFICIENCY MEASURES : THREE STEP APPROACH OF MEASURING, MONITORING AND REDUCING



- Carbon emissions 2024 15,037,470.86kg.
- Emission rate 2024 9.08 Kg/Nm.
- Baseline emissions rate of the year 2023 9.21 Kg/Nm.
- Overall reduction of 1.4 %.

FUEL EFFICIENCY MEASURES : THREE STEP APPROACH OF MEASURING, MONITORING AND REDUCING

FUEL CONSUMPTION RATE PER AIRCRAFT (LTRS/NM)

3.48
2024 FUEL USED LTRS/NM

3.62
2023 FUEL USED LTRS/NM

➤ 2024 FUEL USED
LTRS/NM - 3.48

➤ 2023 FUEL USED
LTRS/NM - 3.62

Month	March	April			May			June			July			August			September			October		
AIRCRAFT	Y%	2023	2024	YoY%	2023	2024	YoY%	2023	2024	YoY%	2023	2024	YoY%	2023	2024	YoY%	2023	2024	YoY%	2023	2024	YoY%
5Y-DHC									3.51		3.27	3.33	2.06%	3.49	3.22	-7.74%	3.63	3.40	-6.23%	3.09	3.47	12.22%
5Y-FAJ			1.26		1.70	1.35	-20.61%	1.48	1.43	-3.05%	1.37	1.40	2.81%	2.15	1.48	-31.13%	1.58	1.36	-13.84%	1.39	1.39	0.28%
5Y-FEA	1.79%	3.85	4.13	7.17%	4.15	4.11	-1.05%	4.22	3.78	-10.28%	5.97	3.73	-37.55%		3.83		4.71	3.75	-20.35%	4.51	3.90	-13.51%
5Y-FEB	1.44%	5.58	5.11	-8.35%	5.18	5.33	2.86%	5.29		-100.00%	5.98	4.26	-28.77%	5.14	4.54	-11.63%	4.70	4.64	-1.30%		4.57	
5Y-FEC	1.24%	5.06	5.00	-1.10%	4.86	4.94	1.61%	6.52	5.09	-21.90%	5.27	5.37	1.93%	4.96	5.24	5.78%	4.93	4.79	-2.93%	4.54	5.09	12.27%
5Y-FMA	1.62%	9.81	4.59	-53.26%	4.65	4.83	3.75%	4.61	4.95	7.40%	4.84	4.36	-9.95%	5.13	4.37	-14.87%	4.44	4.93	11.18%	5.36	4.96	-7.45%
5Y-FSC	1.37%	5.30	4.51	-14.87%	6.30	4.80	-23.70%	5.36	5.04	-5.98%	5.29	4.95	-6.50%	5.39	5.19	-3.64%	2.24	3.87	72.78%	2.16	4.85	124.79%
5Y-IHO	1.93%	3.62	3.27	-9.49%	3.55	3.53	-0.57%	3.52	3.23	-8.15%	3.38	3.61	7.04%	3.23	3.28	1.44%	3.07	3.23	5.26%	3.03	3.09	1.96%
5Y-JGM	1.80%	3.62	3.17	-12.26%	3.47	3.77	8.89%	3.72	3.59	-3.62%	3.56	3.49	-1.93%	4.67	3.64	-22.07%	2.90	3.97	37.24%	3.58	3.63	1.34%
5Y-MCJ	1.19%	3.20	3.11	-2.87%	2.98	3.05	2.31%	3.19	3.11	-2.54%	3.26	3.09	-5.26%	3.21	3.25	1.38%	3.31	3.04	-8.14%	3.03	2.99	-1.39%
5Y-MHO	1.89%	1.52	1.49	-2.06%	2.24	1.48	-34.14%		1.46			1.65		1.92	1.74	-8.97%	1.63	1.77	8.84%	1.62	1.47	-9.06%
5Y-MJM	1.00%	1.69		-100.00%	1.60		-100.00%	1.76		-100.00%	1.74		-100.00%	1.68		-100.00%	1.77		-100.00%	1.80	1.27	-29.82%
5Y-MTG	1.40%	3.61	3.59	-0.64%	3.46	3.27	-5.42%	3.34	3.19	-4.48%	3.21	3.27	1.80%	3.15	3.39	7.53%	3.38	3.27	-3.01%	3.42	4.45	30.26%
5Y-SMJ	1.67%	4.71	4.23	-10.21%	4.56	4.40	-3.60%	4.39	4.18	-4.87%		4.24		4.41	4.31	-2.23%	4.11	4.32	5.01%	5.36	4.49	-16.30%
5Y-VVI																						
5Y-WAJ	1.56%	3.35	3.29	-1.94%	3.39	3.47	2.34%	3.48	3.52	1.02%		3.39			3.39			3.24				
5Y-ZBL			1.60			1.51			1.66			1.56		2.48	1.55	-37.71%	1.71	1.54	-9.80%	1.44		-100.00%
Total	1.18%	3.93	3.55	-9.67%	3.82	3.47	-9.15%	3.91	3.33	-14.98%	3.89	3.35	-13.96%	3.52	3.32	-5.69%	3.20	3.36	5.22%	3.22	3.58	11.33%

OPERATIONAL MEASURES OUTCOME

- Fuel burn rates reduced from an average of **3.62 Ltrs/ Nm in 2023** to **3.48 Ltrs/Nm YTD 2024**
- Reduction of 3.86% equivalent to a reduction 0.14ltrs / NM.
- Total distance covered YTD **1,656,473Nm.**
- Total litres saved is **231,906 litres.**
- Average fuel cost per litre **1 USD.**
- Total fuel saving cost of **USD 231,906** with an average monthly saving of **USD 23,190.6**



ECO-FRIENDLY PRODUCTS ON BOARD; ENVIRONMENTALLY FRIENDLY SOLUTIONS



SOCIO – ENVIRO - ECONOMIC BALANCED APPROACH – PARTNERSHIP

Partnership with Corporate Social Responsibility wing for 748 Mama Ibado Charity and ENI Kenya Ltd

Feed stock developed by planting 10 acres of castor seeds for generation of biofuel.



SUSTAINABLE AVIATION FUEL TEST FLIGHT

There is active collaboration with WFP HQ on doing Humanitarian Aviation Test Flight using sustainable aviation fuel from **Nairobi to Mogadishu** .

Prospective SAF supplier identified.



VOLUNTARY CARBON OFFSETTING PROGRAM

Tree planting in Kakamega Forest:

Total of 15.5 acres planted from November 2022 to date.

Representatives from KCAA, WFP among other partners joined staff 748 ASL in annual tree planting June 2024.



PROMOTIONAL PROGRAM & CAPACITY BUILDING

- All staff trained on EMS implementation
- Capacity building, training and resources deployment
- External training and workshops for Environmental Staff organized by Kenya Civil Aviation Authority
- Environmental Manager part of National Steering Committee on development and deployment of SAF in Kenya
- Environmental theme in place “Environmental Sustainability and Carbon Footprint Reduction Mindset”.
- Last Friday of the month adopted as Environmental Day
- Recognition and awards program in place for EMS Champions across the business



COLLABORATION WITH STAKEHOLDERS, INTERSTED PARTIES AND PARTNERS

- Air Operators Collaboration
- Waste Management Guidelines
- Enhanced Environmental Management Systems and carbon Emission Reduction Strategies
- Collaboration on Test Flight using Sustainable Aviation Fuel
- WFP Environmental Summit

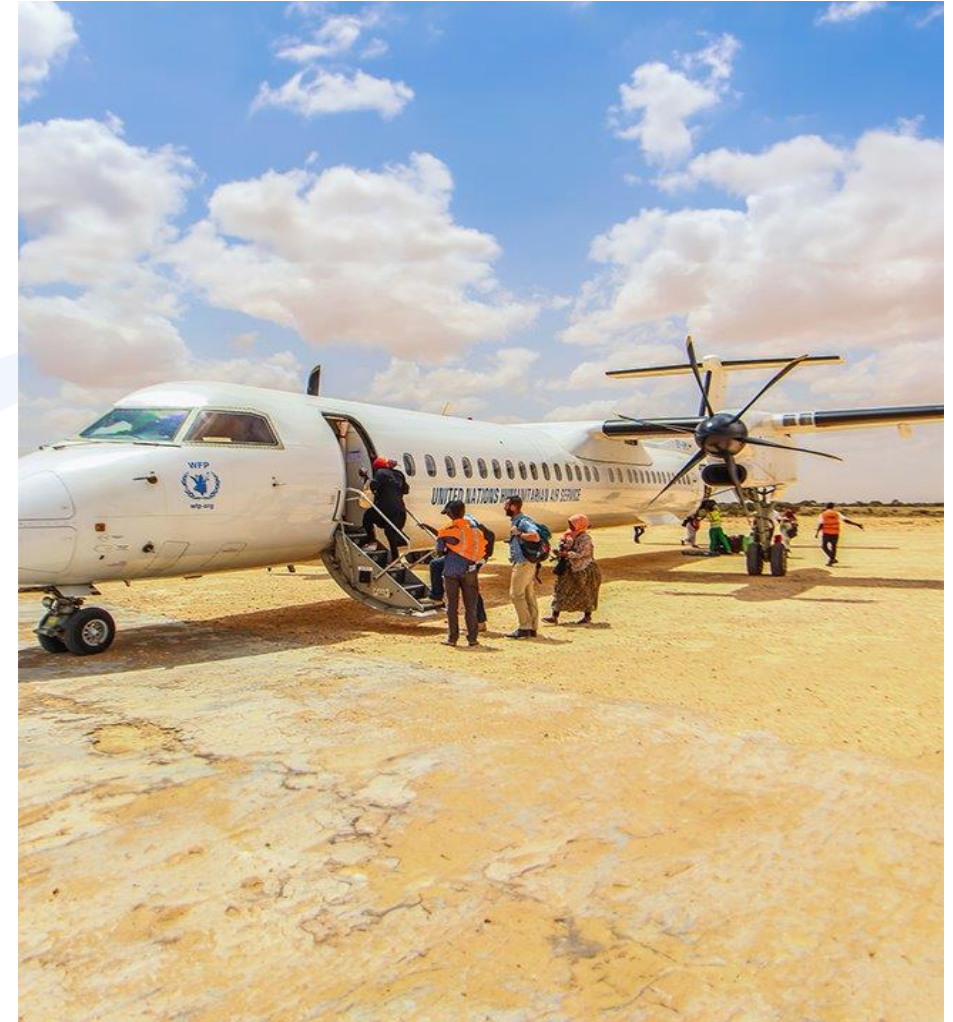


- Successful ISO 14001:2015 Certification process by SGS
- Staff Training and Domestication of EMS
- Interested parties and Stakeholder Engagement
- Carbon offsetting programs
- Used cooking oil (UCO) Disposal
- Fuel savings and Carbon emissions reduction
- Waste Management and Plastics Elimination
- Utilities consumption and monitoring



CHALLENGES

- Limitations on implementation scope for outstations. Local authorities have different levels of commitment and capabilities for waste management programs
- Operational demands for cabin crew that are expected to fully execute cabin waste management activities with very tight timelines for the sectors covered in a day.
- ATC clearance, weather elements and short sector flights leading to increase in carbon emissions.



CONCLUSION

- Seven Four Eight Air Services will continue to collaborate with WFP towards carbon emission reduction strategies and other environmental sustainability programs for air and ground operations.
- Our collaboration will continue with KCAA and other operators in regard to regulations on Environmental Protection; ICAO Annex 16 that will be domesticated upon approval by legislative body in Kenya.
- EMS within the company has been successful due to the overwhelming support by the Management, Staff and stakeholders' engagement. This has led to successful ISO 14001: 2015 EMS certification process by SGS from 16th September to 11th October 2024.

THANK YOU



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