



AFRAA Pathway to Net Zero by 2050

What is Net Zero?

Net zero means removing an equal amount of CO₂ from the atmosphere as we release into it. Contributing to net-zero emissions by 2050 by African aviation is essential for the sector to stay aligned with global commitments like the IATA resolution and the Paris Agreement.

African Context



Key Barriers and Pathways to Decarbonisation

- High cost & low availability of SAF
- Limited infrastructure & incentives
- Need for skilled workforce in sustainability



Strategic Opportunities

- Local SAF production & fuel-efficient fleets
- Operational optimisation & carbon offsetting
- Training & human capital development



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African Context



Global Strategy for Emissions Reduction

- Sustainable Aviation Fuel (SAF)
- New aircraft technology (electric/hydrogen)
- Improved infrastructure
- Air traffic management & operational efficiency
- Approved offsets including carbon capture



African Aviation's Role in Emissions Reduction

- Participation in ICAO's CORSIA to stabilise emissions
- Operational optimisation & carbon offsetting
- Training & human capital development
- Initiatives to reduce carbon footprint and introduce recycling
- Integration of environmental programs in decision-making
- Adoption of energy & water-efficient practices
- Development of environmental criteria in procurement policies



Notable Actions by African Airlines

- Carbon offset programs (Ethiopian, Kenya Airways, SAA)
- SAF-operated flights (SAA, Ethiopia, Kenya)
- RAM flights with 40% SAF blend
- Participation in CORSIA voluntary phase
- Airline engagement to raise awareness for SAF
- Collaboration with governments for emissions-reduction policies



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AFRAA Call to Action

01

Sustainable Aviation Fuel (SAF)

- Joint procurement initiatives and capacity-building webinars

02

Carbon Offsetting

- Creation of a regional offset marketplace and certification programme

03

Technology

- Support for fleet modernisation, digital tools, and green innovation hubs

04

Operations & Infrastructure

- Promotion of the FRA implementation, the efficient flight profiles, A-CDM, and carbon-neutral airports

05

Human Capital

- ESG training, e-learning platforms, and talent development for sustainability

AFRAA calls on airlines, governments, and stakeholders to work together and adapt as the market evolves, especially in areas like offsetting, where scrutiny is increasing.