

INITIATIVES FOR CHANGE



**CAPACITY BUILDING FOR CO₂ MITIGATION
FROM INTERNATIONAL AVIATION**



ICAO



In 2014, the **International Civil Aviation Organization (ICAO)** started the implementation of a joint initiative with the European Union on Capacity Building for CO₂ Mitigation from International Aviation in **14 selected States**; 12 of them from the African region and two from the Caribbean region.

OBJECTIVE 1

ACTION PLANS DEVELOPMENT:
Improved capacity of the National Civil Aviation Authorities to develop an Action Plan on CO₂ emissions reduction from international aviation

OBJECTIVE 2

AVIATION ENVIRONMENTAL SYSTEMS (AES):
Efficient CO₂ emissions monitoring system for international aviation developed in each selected Member State

OBJECTIVE 3

IMPLEMENTATION OF MITIGATION MEASURES:
Priority mitigation measures identified, evaluated and partly implemented

With the completion of the first and second objectives, the ICAO-European Union Project has prepared the States and set the stage for the third objective, which aims at implementing pilot mitigation measures and feasibility studies in some of the selected States. A mitigation measure is an activity selected to improve fuel efficiency and reduce CO₂ emissions.

ANALYSIS



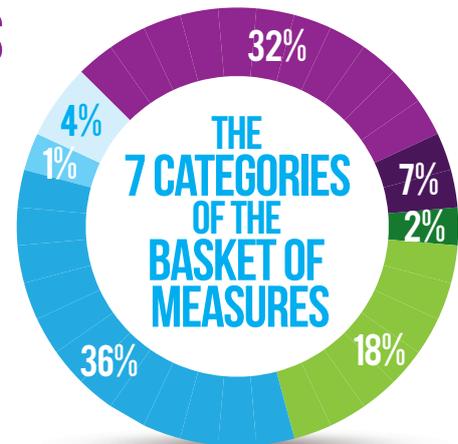
14 ACTION PLANS
DEVELOPED & SUBMITTED BY THE SELECTED STATES



218 POTENTIAL MEASURES
IDENTIFIED

THE 218 MITIGATION MEASURES ARE DISTRIBUTED IN:

CAT 1	Aircraft related technology
CAT 2	Alternative fuels
CAT 3	Improved Air Traffic Management
CAT 4	More efficient operations
CAT 5	Economic/market based measures
CAT 6	Regulatory measures
CAT 7	Airports improvements



SELECTION

TARGETS OF THE PROJECT



The project aims to support, with project funding the development of feasibility studies and to facilitate the implementation of pilot mitigation measures

SELECTION CRITERIA



1. Assistance explicitly requested
2. No competitive distortion
3. Political stability & security
4. Additionality (i.e. the activity could not happen without the support of the project)
5. Airport owned by the State and maintained
6. Significant CO₂ emissions reduction



PILOT MITIGATION MEASURES

TO BE IMPLEMENTED WITH PROJECT FUNDING

The pilot mitigation measures, which will be completed by 2018, will showcase concrete actions that may be replicated by other Member States to contribute to the achievement of ICAO's aspirational goals for CO₂ emissions reduction from international aviation.

SOLAR PANELS

Provides clean power to the airport grid

CAMEROON

DOUALA INTERNATIONAL AIRPORT

KENYA

MOMBASA INTERNATIONAL AIRPORT

CO₂ REDUCTION

2408
TONNES/YEAR

GATE ELECTRIFICATION SYSTEM

Provides ground power and pre-conditioned air to the aircraft at the gate

IMPLEMENTATION OF CCO/CDO

Continuous Climb Operations (CCO) / Continuous Descent Operations (CDO)

BURKINA FASO

GABON

CO₂ REDUCTION

1266
TONNES/YEAR



FEASIBILITY STUDIES

TO BE DEVELOPED WITH PROJECT FUNDING

The feasibility studies will provide the governments of the selected States decision-making tools that may unveil new opportunities to get to the edge of innovations for a sustainable aviation sector.

FEASIBILITY STUDY

on the use of renewable energy to power airport operations

TRINIDAD & TOBAGO

FEASIBILITY STUDY

on the development of sustainable alternative fuels

DOMINICAN REPUBLIC

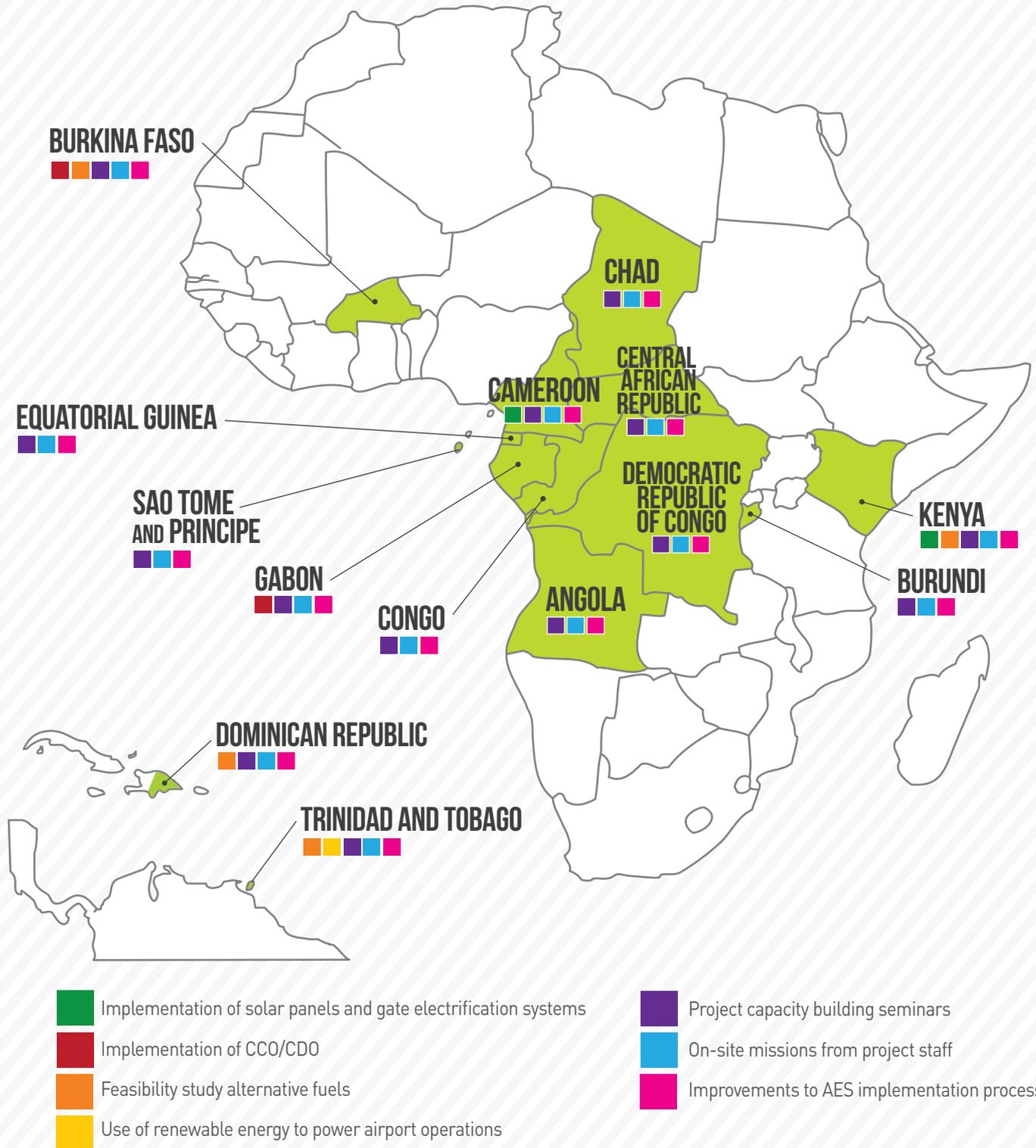
TRINIDAD & TOBAGO

BURKINA FASO

KENYA



ACTIVITIES PER SELECTED STATE FOR THE IMPLEMENTATION OF MITIGATION MEASURES (2016-2018)



ICAO



European Union

WEBSITE: www.icao.int/environmental-protection/Pages/ICAO_EU.aspx

EMAIL: icao-eu-project@icao.int