

WHY THIS PROJECT ?



Despite aviation only accounts for about 2% of global man-made CO₂ emissions, these emissions are projected to grow in the foreseeable future. As a response, under the auspices of ICAO, governments agreed on the aspirational goals of 2% annual fuel efficiency and carbon neutral growth from 2020 onwards.



In order to achieve these aspirational goals, ICAO has developed a basket of mitigation measures that includes concrete actions that States can undertake to reduce CO₂ emissions from international aviation.



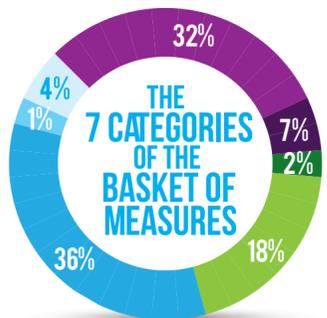
The Action Plans reflect States' strategies to effectively implement actions from the basket of measures to address the CO₂ emissions according to their national context and aviation activity. By October 2016, 102 ICAO Member States, representing more than 90% of global traffic have voluntarily submitted their Action Plans to ICAO.



ICAO Member States had the willingness to take action but without the organization's assistance, initiatives dedicated to CO₂ mitigation measures would be hard or impossible to achieve in the expected timeframe. With the provision of dedicated support, this project facilitates the achievement of global aspirational goals.

THE SELECTED STATES IDENTIFIED 218 POTENTIAL MITIGATION MEASURES 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



For more information on the ICAO-European Union Assistance Project please visit the website: www.icao.int/environmental-protection/Pages/ICAO_EU.aspx

ADDITIONAL BENEFITS AND SYNERGIES

The robust data collection processes that are implemented in the context of the States' Action Plans also enable the States to obtain data related to domestic aviation and thus to enhance their capabilities to submit inventories and plans to mitigate CO₂ emissions to both ICAO and the United Nations Framework Convention on Climate Change (UNFCCC) on international and domestic aviation, respectively.

Similarly, initiatives aimed at reducing international aviation emissions may contribute as co-benefit to also reduce CO₂ emissions from domestic aviation falling under the scope of the UNFCCC. These initiatives create synergies are fully aligned with the national efforts promoted by the UNFCCC to reduce domestic CO₂ emissions through their Intended Nationally Determined Contributions (INDCs).

ICAO States' Action Plans also provide an important vehicle to identify assistance needs. The UNFCCC's Nationally Appropriate Mitigation Actions (NAMAs) also facilitate assistance for capacity building, technology transfer and financing.

Through parallel and complementary approaches, ICAO and the UNFCCC address emissions from international aviation and States' domestic emissions, respectively. By enhancing the synergies in the collection of aviation data and identification of mitigation measures for international and domestic aviation through the ICAO Action Plans, a robust set of information will be available to different UN bodies, while respecting both organizations' mandates and regulatory frameworks.



CAPACITY BUILDING FOR CO₂ MITIGATION FROM INTERNATIONAL AVIATION



PROJECT HIGHLIGHTS

THE ICAO-EUROPEAN UNION PROJECT: AN INTEGRAL PART OF ICAO'S ENVIRONMENTAL PROGRAMME

Since 2010, the International Civil Aviation Organization (ICAO) has been working on a comprehensive strategy to strengthen national capacities on environment and, specifically, to reduce the impact of international aviation on climate change. Many of ICAO's Member States wanted to take action, but were unsure of how or where to start. In response, the concept of "Action Plans" on the environment became a reality and today, the States' Action Plans on CO₂ emissions reduction from international aviation have become one of the key elements of ICAO's environmental strategy. They are used as a tool to communicate the States' progress and efforts towards the environmental goals set by the ICAO Assembly and a means to request necessary assistance.

Building on these successful achievements, on 17 December 2013, ICAO and the European Union (EU) signed an agreement to implement a joint assistance project: *Capacity Building for CO₂ Mitigation from International Aviation*. Fourteen States from the African and Caribbean regions were selected to participate in this 4-year programme, which is funded by the European Union.

CAPACITY BUILDING FOR THE INCLUSIVE DEVELOPMENT OF STATE ACTION PLANS

This initiative has marked the beginning of an era of closer cooperation among ICAO Member States that had a willingness to address environmental issues but required assistance to mobilize their national stakeholders and take action. Comprehensive capacity building Seminars have been organized in each region to strengthen the national capacities of the selected States to address effectively CO₂ emissions from international aviation.

PROJECT 'KICK-OFF' SEMINARS

DOMINICAN REPUBLIC - 2014 / CAMEROON - 2015
Preparation of the Action Plans according to ICAO Doc 9988

SECOND CAPACITY BUILDING SEMINARS

TRINIDAD AND TOBAGO - 2015 / KENYA - 2015
Collection and monitoring of CO₂ emissions from international aviation through the Aviation Environmental System

THIRD CAPACITY BUILDING SEMINARS

GABON-2016 / DOMINICAN REPUBLIC - 2016
Implementation of mitigation measures and monitoring of results

COLLABORATIVE SYNERGIES

The project has supported the establishment of **National Action Plan Teams (NAPT)** in the 14 selected States, which have become a key coordination mechanism and an inclusive process for the development of Action Plans and to follow-up their implementation. The NAPT's have changed the way the States work towards environment in aviation by triggering synergies amongst national stakeholders (i.e. civil aviation authorities, ministry of environment, ministry of transport, airports, airlines, air navigation services providers and fuel suppliers), facilitating the decision-making process and securing the financial and political support for the implementation of mitigation measures. The project's capacity building strategy has therefore enabled a shift in institutional culture towards the environment in the selected States, which have taken ownership and gained greater awareness of environmental issues and are enthusiastic to undertake concrete action.

INTEGRATED TOOL AND TRAINING FOR A RELIABLE MONITORING OF CO₂ EMISSIONS IN AVIATION

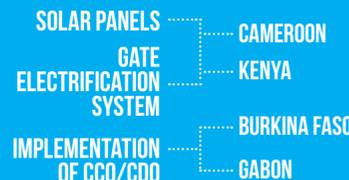
Through the project, ICAO has provided assistance to effectively implement the **Aviation Environmental System (AES)** in the selected States - a resource developed under this ICAO-European Union Assistance Project that facilitates the monitoring of CO₂ emissions and the establishment of national inventories in the aviation sector. Through this system, the selected States can make better decisions with regards to the impacts of aviation on the environment and the sustainability of the overall sector. To facilitate integration with the existing local reporting systems, country-specific interfaces have been developed, and national authorities and relevant stakeholders have been trained through on-site missions to these States and capacity building seminars.

SUPPORT FOR THE EFFECTIVE IMPLEMENTATION OF MITIGATION MEASURES

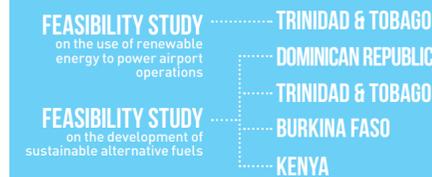
Following the submission of the Action Plans, ICAO will support the selected States in the implementation of their mitigation measures by providing guidance, preparing feasibility studies and by facilitating access to financial resources through partnerships with international financial organizations that are interested in supporting this type of sustainable development initiative.

4 PILOT PROJECTS + 5 FEASIBILITY STUDIES WILL BE SUPPORTED FINANCIALLY WITH PROJECT FUNDING

PILOT MITIGATION MEASURES TO BE IMPLEMENTED WITH PROJECT FUNDING



FEASIBILITY STUDIES TO BE IMPLEMENTED WITH PROJECT FUNDING

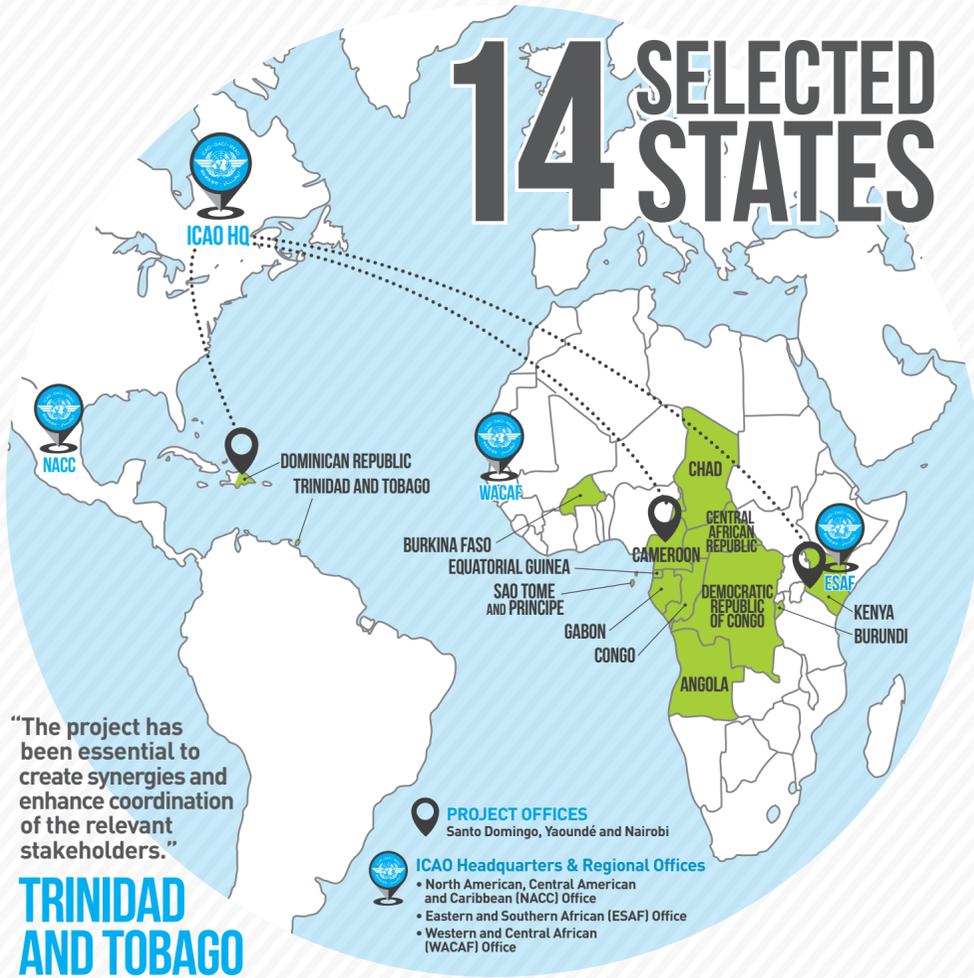


The results of these pilot projects will become successful examples of concrete actions that could be replicated at a larger scale by other States that are willing to address the impact of aviation on climate change.

CAPACITY BUILDING FOR CO₂ MITIGATION FROM INTERNATIONAL AVIATION

6.5 € MILLION BUDGET

The main objective of the ICAO-European Union Assistance Project is to contribute to the mitigation of CO₂ emissions from international aviation by implementing capacity building activities that will support the development of low carbon air transport and environmental sustainability in the fourteen selected States. This project is a concrete example of ICAO's efforts to achieve the objectives of the "No Country Left Behind" initiative in the area of environmental protection.



"The project has been essential to create synergies and enhance coordination of the relevant stakeholders."

TRINIDAD AND TOBAGO

"Whilst we have been implementing measures to improve fuel efficiency and reduce CO₂ emissions for some time, we have experienced challenges with a robust data collection system to monitor their effective progress. This gap will be filled by the activities planned in the ICAO-EU project."

KENYA

OBJECTIVE 1

ACTION PLANS DEVELOPMENT:
Improved capacity of the National Civil Aviation authorities to develop an Action Plan on CO₂ emissions reduction in accordance with ICAO recommendations

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

"Our new Action Plan, prepared under the ICAO-EU project, is an important step to promote a comprehensive strategy to address climate change in the country within the aviation sector."

DOMINICAN REPUBLIC

"This project gives us the opportunity to pave the way in this area, to strengthen the regional cooperation on it and to trigger interest in neighbouring national civil aviation authorities to get more involved on CO₂ emissions reduction at their national level."

BURKINA FASO

"This project is a great example of the ICAO initiative "No Country Left Behind" and such assistance project should be definitely replicated in other group of countries."

CAMEROON

STEERING COMMITTEE

A Steering Committee has been established for the strategic and political direction of the project. This Committee meets annually and includes representatives from ICAO, the European Commission and the selected States.

STRATEGIC DIRECTION



IMPLEMENTATION

SUSTAINABLE DEVELOPMENT GOALS

