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.

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.

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

**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

**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

The 14 action plans developed & submitted by the selected states are as follows:

- **CAMEROON**: Douala International Airport
- **KENYA**: Mombasa International Airport
- **TRINIDAD & TOBAGO**: Feasibility study on the use of renewable energy to power airport operations
- **DOMINICAN REPUBLIC**: Feasibility study on the development of sustainable alternative fuels

**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.

**THE 218 POTENTIAL MEASURES IDENTIFIED**

- **36%**: CAT 1 - Aircraft related technology
- **32%**: CAT 7 - Airports improvements
- **18%**: CAT 6 - Regulatory measures
- **7%**: CAT 4 - More efficient operations
- **7%**: CAT 5 - Economic/market based measures
- **4%**: CAT 2 - Alternative fuels
- **1%**: CAT 3 - Improved Air Traffic Management

**CO₂ REDUCTION**
- **2408 tonnes/year**: BURKINA FASO
- **1266 tonnes/year**: GABON

**FEASIBILITY STUDIES**
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.
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.

**PILOT MITIGATION MEASURES**

*TO BE IMPLEMENTED WITH PROJECT FUNDING*

- Solar Panels
  - Provides clean power to the airport grid
- Gate Electrification System
  - Provides ground power and pre-conditioned air to the aircraft at the gate

**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

**TARGETS of the PROJECT**

**PILOT MITIGATION MEASURES TO BE IMPLEMENTED WITH PROJECT FUNDING**

- **Cameroon**
  - Douala International Airport
  - CO₂ Reduction: 2408 tonnes/year
- **Kenya**
  - Mombasa International Airport
  - CO₂ Reduction: 1266 tonnes/year

**FEASIBILITY STUDIES TO BE DEVELOPED WITH PROJECT FUNDING**

- **Trinidad & Tobago**
  - Feasibility study on the use of renewable energy to power airport operations
- **Dominican Republic**
  - Feasibility study on the development of sustainable alternative fuels
- **Burkina Faso**
  - Implementation of CCO/CDO (Continuous Climb Operations / Continuous Descent Operations)
  - CO₂ Reduction: 1266 tonnes/year
- **Gabon**
  - Implementation of CCO/CDO
  - CO₂ Reduction: 1266 tonnes/year
- **Kenya**
  - Feasibility study on the use of renewable energy to power airport operations
ACTIVITIES PER SELECTED STATE FOR THE IMPLEMENTATION OF MITIGATION MEASURES (2016-2018)

- **ANGOLA**: Implementation of solar panels and gate electrification systems, Implementation of CCO/CDO, Feasibility study alternative fuels, Use of renewable energy to power airport operations.
- **KENYA**: Capacity building seminars, On-site missions from project staff, Improvements to AES implementation process.

**WEBSITE:** www.icao.int/environmental-protection/Pages/ICAO_EU.aspx  
**EMAIL:** icao-eu-project@icao.int