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# Agenda Item 5.2

## iii) Environmental Protection

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EURNAT-DGCA/2017

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# Overview

- ICAO's work on Sustainable Alternative Fuels
- Global Market Based Measure
- States Action Plan Initiative
- Assistance to States



# Sustainable Alternative Fuels

## ICAO Global Framework for Aviation Alternative Fuels (GFAAF)



- Started in 2009
- Database for relevant activities
  - Frequently asked questions
  - Facts and Figures
  - News and Activities
  - Initiatives and Projects

[www.icao.int/environmental-protection/GFAAF/Pages/default.aspx](http://www.icao.int/environmental-protection/GFAAF/Pages/default.aspx)

### Current Activities



Or to see more information visit the [News and Activities](#) page.  
\*Zoom in for best results

### Current Initiatives



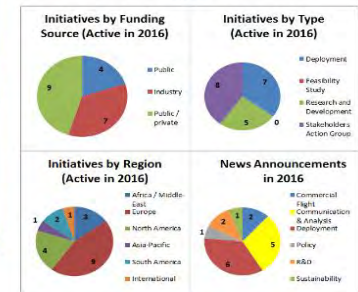
Or to see more information visit the [Initiatives & Projects](#) page.

### Frequently Asked Questions

1. [Why introduce alternative fuels in aviation?](#)
2. [What are sustainable alternative jet fuels?](#)
3. [What are the potential environmental benefit of alternative fuels?](#)
4. [Which alternative fuels can currently be used?](#)
5. [What are the challenges for the development and deployment of alternative fuels?](#)
6. [What are the initiatives worldwide for the development of alternative fuels?](#)
7. [What is ICAO doing in the field of alternative fuels?](#)

### Facts and Figures

Click the image below to view Facts and Figures from 2016





# Sustainable Alternative Fuels

**Conference on Alternative Fuels** will be held in Mexico from 10 to 13 October 2017 to address issues of sustainable alternative fuels for aviation with a view to develop the ICAO policy framework.

ICAO SEMINAR ON  
**ALTERNATIVE FUELS 2017**

ICAO Headquarters, Montréal, 8-9 February 2017



<http://www.icao.int/Meetings/altfuels17/Pages/default.aspx>



# Background for developing a global MBM scheme

- In 2013, the 38th Session of the ICAO Assembly unanimously decided, “to develop a global MBM scheme for international aviation” (Resolution A38-18, paragraph 18)
- Under Resolution A38-18, the Council was requested to:

finalize the work on the technical aspects, environmental and economic impacts and modalities of the possible options for a global MBM scheme

organize seminars, workshops on a global scheme for international aviation

make a recommendation on a global MBM scheme that addresses key design elements and the mechanisms for the implementation of the scheme from 2020

- Council was requested to conduct this work and report its results for decision at the 39th session of the ICAO Assembly



## Resolution A39-3: CORSIA

- CORSIA is the **first global MBM scheme** for any industry sector
- CORSIA is **one element in the basket of measures** to achieve ICAO's global aspirational goal of carbon neutral growth from 2020 (CNG 2020)
- CORSIA is a **complementary measure** to a broader package in the basket of measures – **preference is for non-MBM measures** to reduce aviation emissions (i.e. through aircraft technology, operational improvements, sustainable alternative fuels)
- CORSIA is one of the measures **to be included in States' Action Plans** – all elements in the basket should be progressed



- Participation of Member States in the CORSIA
    - Pilot Phase (2021-2023)
    - First Phase (2024-2026)
    - Second Phase (2027-2035)
- Voluntary participation
- Participation of all States except for exempted ones

**All Member States are encouraged to participate in the pilot and first phases of CORSIA**



As per Assembly Resolution A39-3, the ICAO Secretariat provides public updated information on the States that volunteer to participate in the Pilot and First phases

To date, **67 States**, representing more than **87.5%** of international aviation activity, intend to voluntarily participate in the CORSIA from its outset

**NOTE:** Updates to this information can be found on the CORSIA website: <http://www.icao.int/environmental-protection/Pages/market-based-measures.aspx>

ALBANIA	HUNGARY	PORTUGAL
ARMENIA	ICELAND	QATAR
AUSTRALIA	INDONESIA	REPUBLIC OF KOREA
AUSTRIA	IRELAND	REPUBLIC OF MOLDOVA
AZERBAIJAN	ISRAEL	ROMANIA
BELGIUM	ITALY	SAUDI ARABIA
BOSNIA AND HERZEGOVINA	JAPAN	SAN MARINO
BULGARIA	KENYA	SERBIA
BURKINA FASO	LATVIA	SINGAPORE
CANADA	LITHUANIA	SLOVAKIA
CHINA	LUXEMBOURG	SLOVENIA
COSTA RICA	MALAYSIA	SPAIN
CROATIA	MALTA	SWEDEN
CYPRUS	MARSHALL ISLANDS	SWITZERLAND
CZECH REPUBLIC	MEXICO	THAILAND
DENMARK	MONACO	THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA
ESTONIA	MONTENEGRO	TURKEY
FINLAND	NETHERLANDS	UKRAINE
FRANCE	NEW ZEALAND	UNITED ARAB EMIRATES
GEORGIA	NORWAY	UNITED KINGDOM
GERMANY	PAPUA NEW GUINEA	UNITED STATES
GREECE	POLAND	ZAMBIA
<b>GUATEMALA</b>		





## Planned Assistance and Capacity Building Activities

### 2017 **CORSIA Regional Seminars** (27 March to 20 April 2017, five different venues)

- provided national action plan focal points and aviation industry stakeholders with practical input on the calculation of the CO2 emissions baseline and other quantification aspects.
- Shared information on CORSIA's design elements and implementation aspects

### 2017 **CORSIA International Seminar** (10 to 11 May 2017, Montréal, Canada)

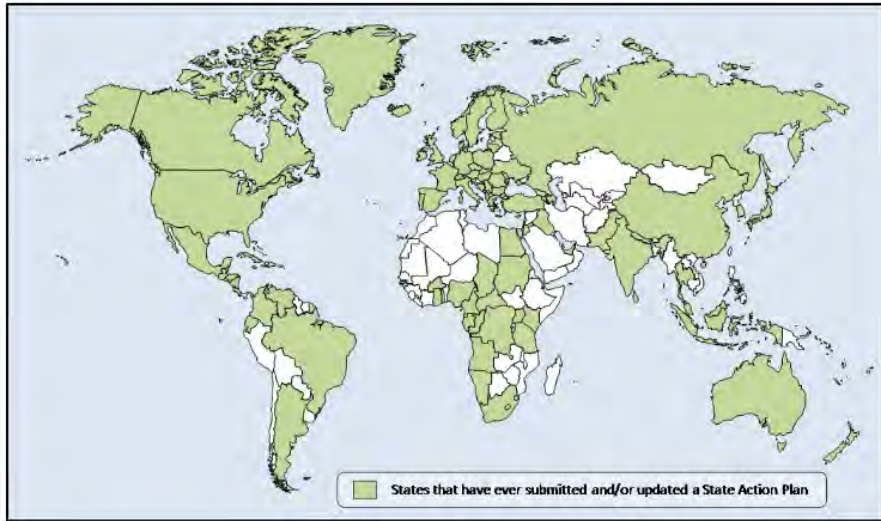
- Share information on CORSIA's design elements and implementation aspects
- Provide outcomes and lessons learned from the series of regional seminars
- Serve as an opportunity for States that could not participate in the regional seminars

### **Additional capacity building and assistance activities**

- Development of training kits / brochures / practical guidelines/manuals
- Coordination with State Action Plan initiative, for necessary adjustments on MRV



## States' Action Plan Initiative



**103** States representing **90.11 %** of global RTK have submitted an action plan to ICAO.

**43** Actions Plans from the **EUR NAT Region**

**25** States **EUR NAT Region** updated and submitted their Action Plans to ICAO in 2015/2017

**3** States from the **EUR NAT Region** submit their first Action Plan in 2015/2016

**3** ICAO *Buddy Partnerships*

**2** joint assistance projects



## Assistance to States

- EUR NAT Office has reinforced its capacity building activities on environment and started providing more assistance to States in the Region to develop their Action Plan on CO<sub>2</sub> emissions reduction.



## Assistance to States

As an example, the EUR/NAT Office, will further support Turkey to develop its Action Plan



## Draft EURNAT-DGCA Conclusion 2017/4 – Environmental Capacity Building Programme

- commit to include environmental issues in the planning and implementation activities related to the improvement of the civil aviation system;
- develop or update their quantified States' Action Plans on CO<sub>2</sub> Emissions Reduction Activities in accordance with the provisions in the Guidance on the Development of States' Action Plans on CO<sub>2</sub> Emissions Reduction Activities (ICAO Doc 9988) and submit them to ICAO by end of June 2018;
- use the ICAO environment tools, or any other tool which is compliant with the CAEP models and methodologies, to estimate the emissions reductions from the implementation of the mitigation measures as part of the development of States' action plans;



## **Draft EURNAT-DGCA Conclusion 2017/4 – Environmental Capacity Building Programme (continued)**

- make use of further assistance provided by ICAO in the preparation and submission of States' action plans, if required;
- participate in the ICAO Buddy Programme (a State that had developed its action plan providing support to another State yet to develop its plan);
- share their best practices and, taking into account the commercially sensitive information, consider making available to the public their submitted action plans; and
- participate in the pilot phase and the first phase of the Carbon Offset Scheme for International Aviation (CORSlA).



THANK YOU!