



ICAO CAPACITY BUILDING ACTIVITIES

**ACT-CORSIA** 

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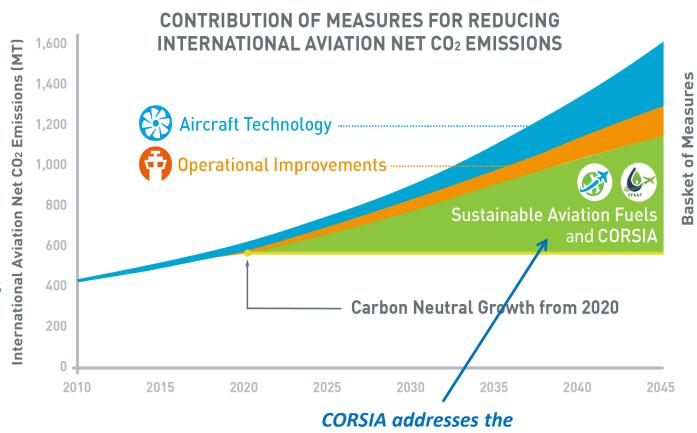


### The first global market-based measure for any industry sector

To achieve ICAO's global aspirational goal of carbon neutral growth from 2020 (CNG 2020), CORSIA is

one complementary element in the basket of measures to:

- aircraft technology
- operational improvements
- sustainable aviation fuels



remaining "emissions gap"
to achieve CNG2020



### ICAO ENVIRONMENT CORSIA Implementation Package



Resolution A40-19: Consolidated statement of continuing ICAO policies and practices related to environmental protection - Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

Whereas Assembly Resolution A38-18 decided to develop a global market-based measure M) scheme for international aviation, for decision by the 39th Session of the Assembly;

Recalling that Assembly Resolution A38-18 requested the Council, with the support of Member States, and indicate in identify the major issues and problems, including for Member States, and make a including a means to take interaction properties of the interaction and interaction of the scheme from 200 as part of a backet of measures which also included technologies, operational improvements and sustained servician feels to achieve (COV) global coloraboration of the scheme from 200 as part of a backet of measures which also include technologies, operational improvements and sustained servician feels to achieve (COV) global coloraboration feels to achieve (COV) global coloraboration of the scheme from 200 as part of a backet of measures which also measures are consistent or consistent of the scheme (COV) global coloraboration of the coloraboration

Whereas Assembly Resolution A39-3 decided to implement a GMBM scheme in the form of the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) as part of a basket of measures which also include aircraft technologies, operational improvements and sustainable aviation fuels to achieve ICAO's global aspirational goals;

Recognizing that ICAO is the appropriate forum to address emissions from international aviation, and the significant amount of work undertaken by the Council, its Advisory Group on CORSIA (AGC), its Technical Advisory Body (TAB) and its Committee on Aviation Environmental Protection (CAEP) to support the implementation of CORSIA;

 $\label{eq:welcoming} Welcoming the adoption of the first edition of Annex 16-Environmental Protection, Volume IV-CORSIA, the provisions of which include Monitoring, Reporting and Verification (MRV) procedures$ 

Also welcoming the publication of the first edition of Environmental Technical Manual (ETM, Doc 9501), Volume IV – Procedures for demonstrating compliance with the CORSIA;

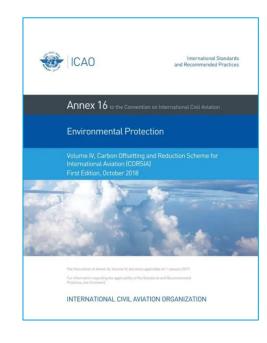
Welcoming the progress made for the development of ICAO CORSIA Implementation Elements, which are reflected in 14 ICAO documents directly referenced in Annex 16, Volume IV, containing materials that are approved by the Council, and are essential for the implementation of CORSIA:

Also welcoming the establishment by the Council of the Technical Advisory Body (TAB), with

Recognizing the importance of a coordinated approach for capacity building activities by ICAO and its Momber States, in cooperation with the aviation industry, to support the implementation of CURSIA in particular through the ICAO Assistance, Capacity-building and Training for CURSIA (CURSIA) programmes that includes the organization of seminars, development of outreach materials, and establishment of CORSIA partnerships among States;

Welcoming the increasing number of announcements by Member States of their intention to voluntarily participate in CORSIA in the pilot phase from 2021;

Recognizing that strong capacity-building activities can facilitate the decision of Member States to voluntarily participate in CORSIA;



Annex 16, Volume IV (CORSIA SARPs)



Doc 9501 (ETM), Vol. IV (CORSIA) (2<sup>nd</sup> edition)



**CORSIA Implementation** Elements (ICAO documents)

**Assembly Resolution** A40-19

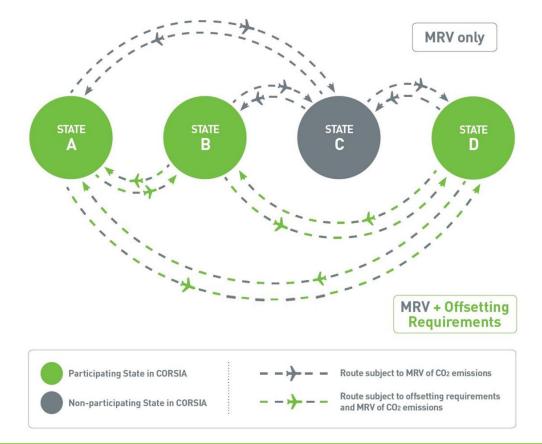


## Monitoring, Reporting and Verification

- Monitoring, Reporting and Verification (MRV) is the backbone for the successful implementation of CORSIA, which requires:
  - Reliable information on CO<sub>2</sub> emissions, and on compliance with offsetting requirements

<u>ALL ICAO MEMBER STATES with aeroplane</u>
<u>operators conducting international flights</u> are
required to <u>monitor, report and verify CO</u><sub>2</sub>
<u>emissions</u> from these flights <u>every year from 2019</u>,
independent of their participation in CORSIA.

need to ensure that their aeroplane operators comply with the CORSIA offsetting requirements every three years (starting in 2021), in addition to annual CO<sub>2</sub> MRV.





### **ENVIRONMENT** ICAO ACT CORSIA Programme



ICAO Assistance, Capacity-building and Training on CORSIA (ACT-CORSIA):

ACT CORSIA is a **coordinated approach** to harmonize and bring together all relevant actions and promote coherence to capacity building efforts for CORSIA implementation — also enabling the monitoring of global progress / transparency

**CORSIA Buddy Partnerships** 

**Seminars, Online Tutorials** 

**Brochures, Leaflets, Videos** 

**Frequently Asked Questions** 

**CORSIA Monthly Newsletters** 



www.icao.int.corsia



### ENVIRONMENT

### **ICAO ACT CORSIA Buddy Partnerships**



- Buddy Partnerships cornerstone of ACT-CORSIA to support States to prepare for CORSIA implementation
- No expertise or resources for training available at the start of CORSIA
- Technical experts from supporting States voluntarily helping support-requesting States,
   by providing on-site training and closely monitoring the required actions
- Considerations on languages, time-zones/locations, existing relations







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### **ENVIRONMENT ACT-CORSIA Buddy Partnerships**



### Different phases with specific focus areas in order to support necessary actions by States with different timelines

### Phase I (Sep 2018 – Apr 2019): 15 supporting States and 98 requesting States

- Development and approval of Emissions Monitoring Plans
- Establishment of national/regional regulatory frameworks

### Phase II (May 2019 – Apr 2020): 16 supporting States and 114 requesting States

CO2 Emissions reporting and verification

### Phase III (Apr 2020 - 2022): 16 supporting States and 118 requesting States

Use of the CORSIA Central Registry (CCR)

The focus areas of each Phase can form the basis for checklist to assess the progress made and milestones achieved in order to determine the need for a tailored approach to training.





# CORSIA website provides access to all CORSIA-related documents

- Annex 16, Volume IV
- ETM and templates (in Excel)
- 2021 version of the CERT
- ACT-CORSIA information
- 2022 CORSIA periodic review
- CORSIA Eligible Fuels

www.icao.int/corsia

### Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

CORSIA News (click here to consult the complete list)

### November 2021

Total international aviation CO<sub>2</sub> emissions in 2020 have been approved by the ICAO Council and are available here.

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## COVID-19 impacts and 2022 CORSIA periodic review

### **CORSIA** IMPLEMENTATION

· Assembly Resolution A40-19









- Reservation to Resolution A40-19
- SARPs Annex 16 Volume IV
- · Environmental Technical Manual Volume IV
  - » Templates
- · ICAO CORSIA Implementation Elements
  - » CORSIA States for Chapter 3 State Pairs
- » ICAO CORSIA CO<sub>2</sub> Estimation and Reporting Tool (CERT)
- » CORSIA Eligible Fuels
- » CORSIA Eligible Emissions Units
- » CORSIA Central Registry (CCR)

Additional Material for CORSIA Implementation

Status of CORSIA Implementation



### **CORSIA Newsletter**

### **ACT ≫ CORSIA**

- · CORSIA Buddy Partnerships
- · Model Regulations
- · Frequently Asked Questions
- Brochure and Leaflets
- Videos
- Seminars
- Online Tutorials
- · Background Information







## ICAO ENVIRONMENT 107 CORSIA Volunteer States for 2022

Afghanistan	El Salvador	Kenya	Republic of Korea
Albania	<b>Equatorial Guinea</b>	Latvia	Republic of Moldova
Armenia	Estonia	Lithuania	Romania
Australia	Finland	Luxembourg	Rwanda
Austria	France	Madagascar	San Marino
Azerbaijan	Gabon	Malaysia	Saudi Arabia
Belgium	Georgia	Malta	Serbia
Benin	Germany	Marshall Islands	Singapore
<b>Bosnia and Herzegovina</b>	Ghana	Mexico	Slovakia
Botswana	Greece	Monaco	Slovenia
Bulgaria	Guatemala	Montenegro	Spain
Burkina Faso	Guyana	Namibia	Sweden
Cameroon	Honduras	Netherlands	Switzerland
Canada	Hungary	New Zealand	Thailand
Costa Rica	Iceland	Nigeria	Turkey
Côte d'Ivoire	Indonesia	North Macedonia	Uganda
Croatia	Ireland	Norway	Ukraine
Cyprus	Israel	Papua New Guinea	<b>United Arab Emirates</b>
Czechia	Italy	Philippines	United Kingdom
<b>Democratic Republic of</b>	Jamaica	Poland	United Republic of
the Congo	Jaillaica		Tanzania
Denmark	Japan	Portugal	United States
Dominican Republic	Kazakhstan	Qatar	Zambia



Bahamas
Grenada
Palau
Trinidad and Tobago
Barbados
Kiribati
Saint Kitts and Nevis
Tuvalu
Belize
Mali
South Sudan
Vanuatu
Cook Islands
Nauru
Suriname
Gambia
Oman
Tonga
Uruguay
Oruguay

19 additional States volunteered to participate from 2022, making a total of **107 Volunteer States** 



## ICAO ENVIRONMENT Timeline and Actions (2022)

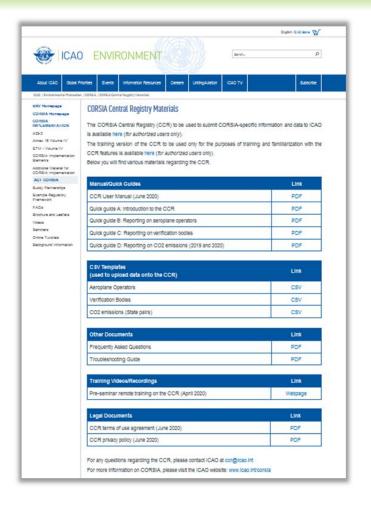


Timeline	Responsibility	Action	
1 January to 31 December 2022	Operator	Monitor 2022 CO <sub>2</sub> emissions from international flights	
1 January to 30 April 2022	Operator and Verification Body	<ul> <li>Operator to compile 2021 CO<sub>2</sub> emissions data</li> <li>Verification body to verify 2021 Emissions Report</li> </ul>	
30 April 2022	Operator and Verification Body	Submit Emissions Report and associated Verification Report to the State of attribution	
1 May 2022 to 31 July 2022	State	Conduct order of magnitude check of verified Emissions Report	
31 July 2022	State	Submit aggregate 2021 CO <sub>2</sub> emissions data to ICAO through the CCR	
31 October 2022	- Publish 2021 CO <sub>2</sub> emissions - Publish 2021 SGF		
30 November 2022	State	Submit to ICAO through the CCR:  - List of operators attributed to the State  - List of verification bodies accredited in the State	
31 December 2022	ICAO	Publish list of aeroplane operators and list of verification bodies	

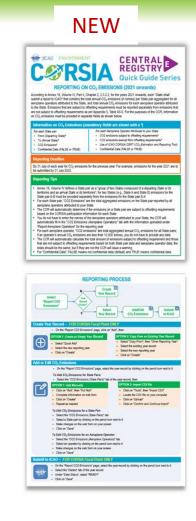


## ICAO ENVIRONMENT CCR Materials Webpage













https://www.icao.int/environmental-protection/CORSIA/Pages/ccr-materials.aspx



### ICAO ENVIRONMENT



