

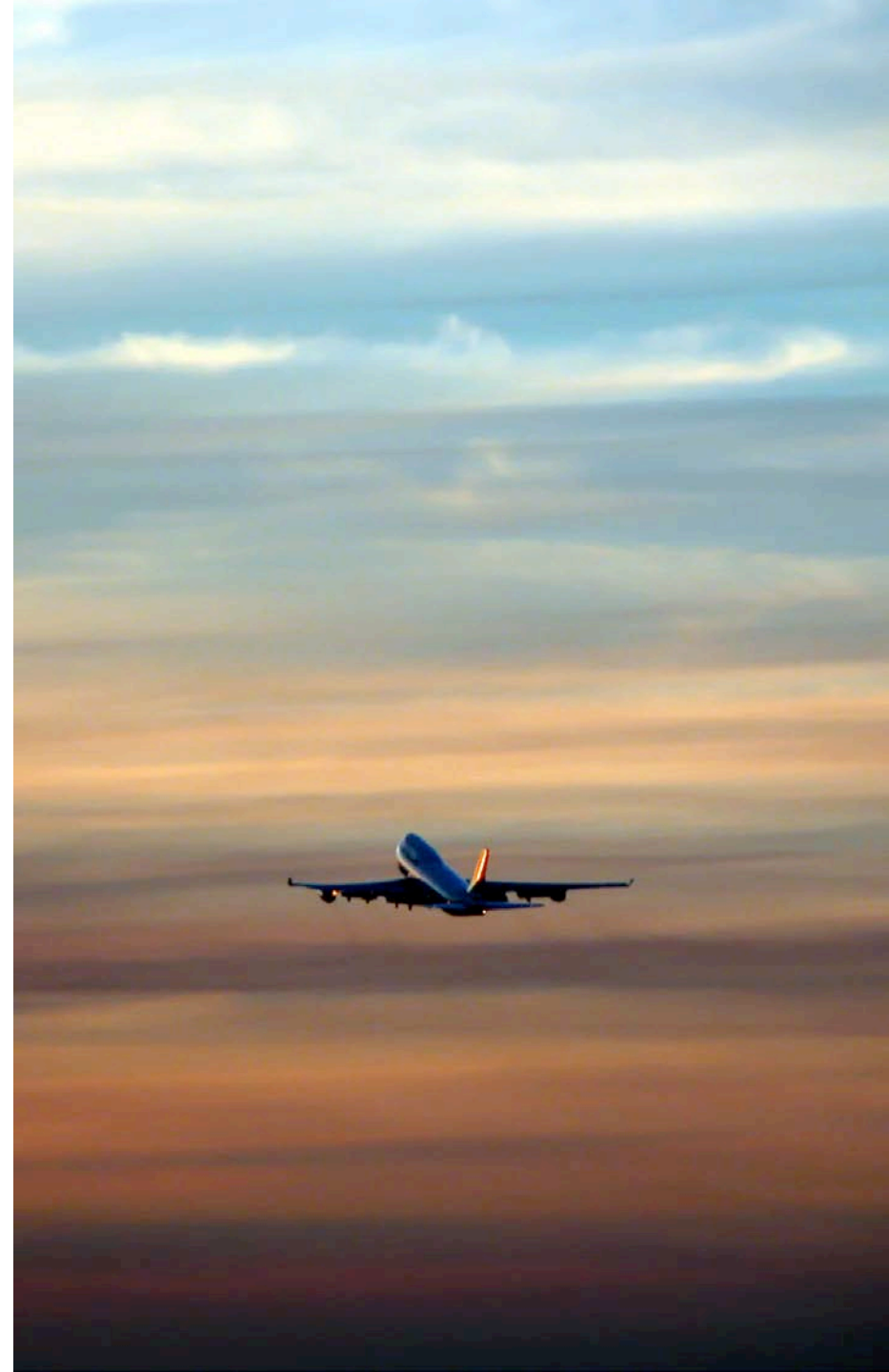
Carbon Offsetting and Reduction Scheme for International Aviation (CORSI A)

Implementation of CORSI A in the United States

Presented to: **CAAFI January Monthly Webinar**

By: **Dan Williams
FAA Office of Environment and Energy (AEE)**

Date: **27 January 2021**



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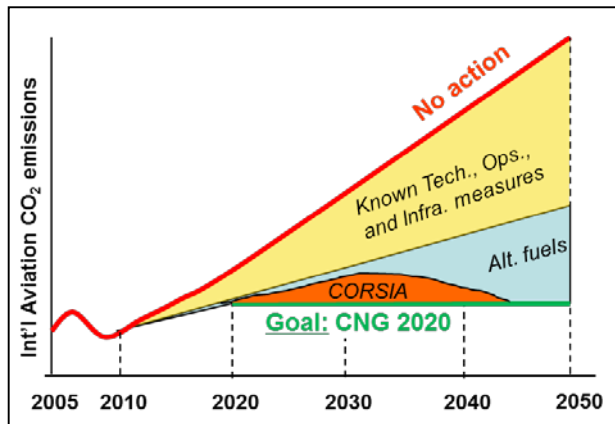
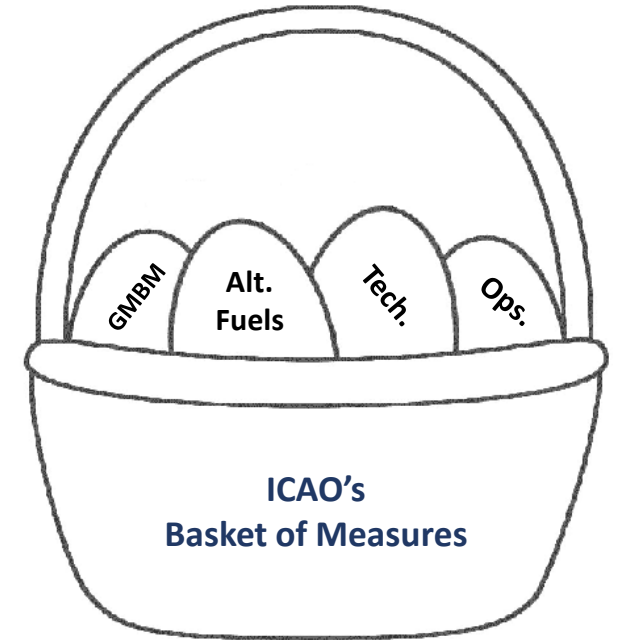
CORSIA – As Agreed by ICAO Assembly

Global Carbon Offsetting Scheme

- “Carbon Offsetting and Reduction Scheme for International Aviation” (CORSIA)

Applies to Aircraft Operators, International Only

- Exemptions for aircraft $\leq 5,700$ kg, operators with $\leq 10,000$ metric tons CO₂, and humanitarian, medical, firefighting flights



Offsetting to Help Meet the Carbon Neutral Growth from 2020 Goal

- Offset the increase in CO₂ emissions of international flights between participating countries after 2020, from averaged 2019-2020 baseline



ICAO CORSIA (cont.)

Timeframe for Offset Requirement: 2021-2035

But, Emissions Monitoring, Reporting & Verification (MRV) Began in 2019 and Is Annual

- Emissions monitoring applies to all countries, even those not covered by the offsetting requirement

Demonstration of Compliance with Offset Requirement Every 3 Years

Country-by-Country Implementation, with Certain Reporting to and Determinations by ICAO



ICAO CORSIA (cont.)

Emissions Savings from an Operator's Purchase of Sustainable Alternative Fuel Reduces Individual Operator Offset Obligations

CORSIA Is Intended to be in Lieu of Other Measures Imposed States on International Aviation



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FAA CORSIA MRV Program: Overview

- FAA posted a notice of the “CORSIA Monitoring, Reporting, and Verification Program” on its website [https://www.faa.gov/about/office org/headquarters offices/apl/research/environmental policy](https://www.faa.gov/about/office_org/headquarters_offices/apl/research/environmental_policy)
- Program implements the provisions of the ICAO CORSIA, and in particular the monitoring, reporting and verification requirements for 2019 & 2020.
- Under this voluntary program, U.S. air carriers, commercial, and general aviation operators can choose to undertake monitoring, reporting, and verification (“MRV”) of CO₂ emissions for international flights for the years 2019 and 2020.

The screenshot displays the FAA website's navigation and content structure. At the top, the FAA logo and navigation menu are visible, including links for 'About DOT', 'Our Activities', and 'Areas of Focus'. The main navigation bar includes categories like 'Aircraft', 'Airports', 'Air Traffic', 'Data & Research', 'Licenses & Certificates', 'Regulations & Policies', and 'Training & Testing'. The current page is titled 'Environmental Standards, Market Based Measures & Policy Options' and features a sub-section for 'Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)'. This section lists three attachments: 'U.S. CORSIA MRV Program Statement (PDF)', 'Attachment 1 – U.S. CORSIA Program Signatory Form (PDF)', 'Attachment 2 – U.S. CORSIA EMP Template (MS Excel)', and 'Attachment 3 – U.S. CORSIA ER Template (MS Excel)'. The page footer contains a grid of links for 'Get Important Info/Data', 'Review Documents', 'Learn About NextGen', 'Visit Other FAA Sites', and 'Work at FAA', along with social media icons and contact information.



FAA CORSIA MRV Program: Overview

The FAA CORSIA MRV Program implements Annex 16, Volume IV and applies for 2019 and 2020

Includes:

- ✓ Scope of Applicability
- ✓ Exclusions
- ✓ Monitoring
- ✓ Reporting
- ✓ Verification

Does Not Include:

- ✗ Offsetting
- ✗ Alternative Fuels

To be effective, the program requires a “critical mass” of operators – in this case, a number of operators who combined represent 90% of total international fuel consumption based on 2017 data



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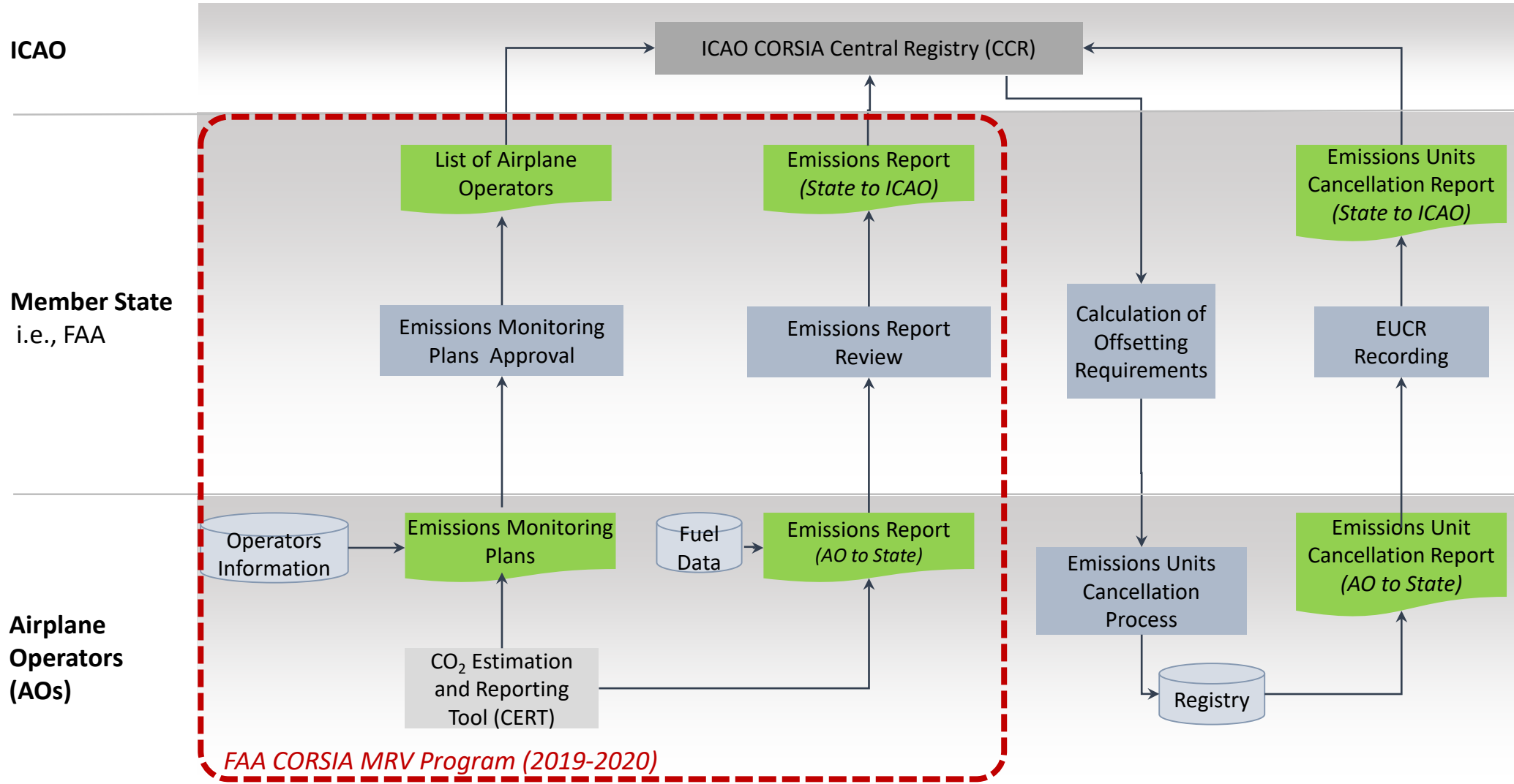
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CORSIA Information Flows

(from Annex 16 Volume IV)



Emissions Report (ER)

- Report developed by the airplane operator, verified by a third-party verifier, and submitted to the State (country).
- The ER will be submitted on an annual basis starting in 2020 for emissions generated in 2019.
- Emissions reported in 2019 and 2020* will determine the baseline emissions for CORSIA (average of 2019-2020 emissions).
- Starting in 2021, the ER will be accompanied by Supplementary Information on CORSIA Eligible Fuels.

Background: Status of Participation and Submission of Emission Monitoring Plans (EMPs)

- As of July 2020 the FAA CORSIA MRV Program covered;

139

submissions to FAA including; Assessments, EMPs, or Signatory Forms.

31

Participants who have submitted a Monitoring Plan and/or a signatory letter and are expected to be within the scope of applicability of CORSIA.

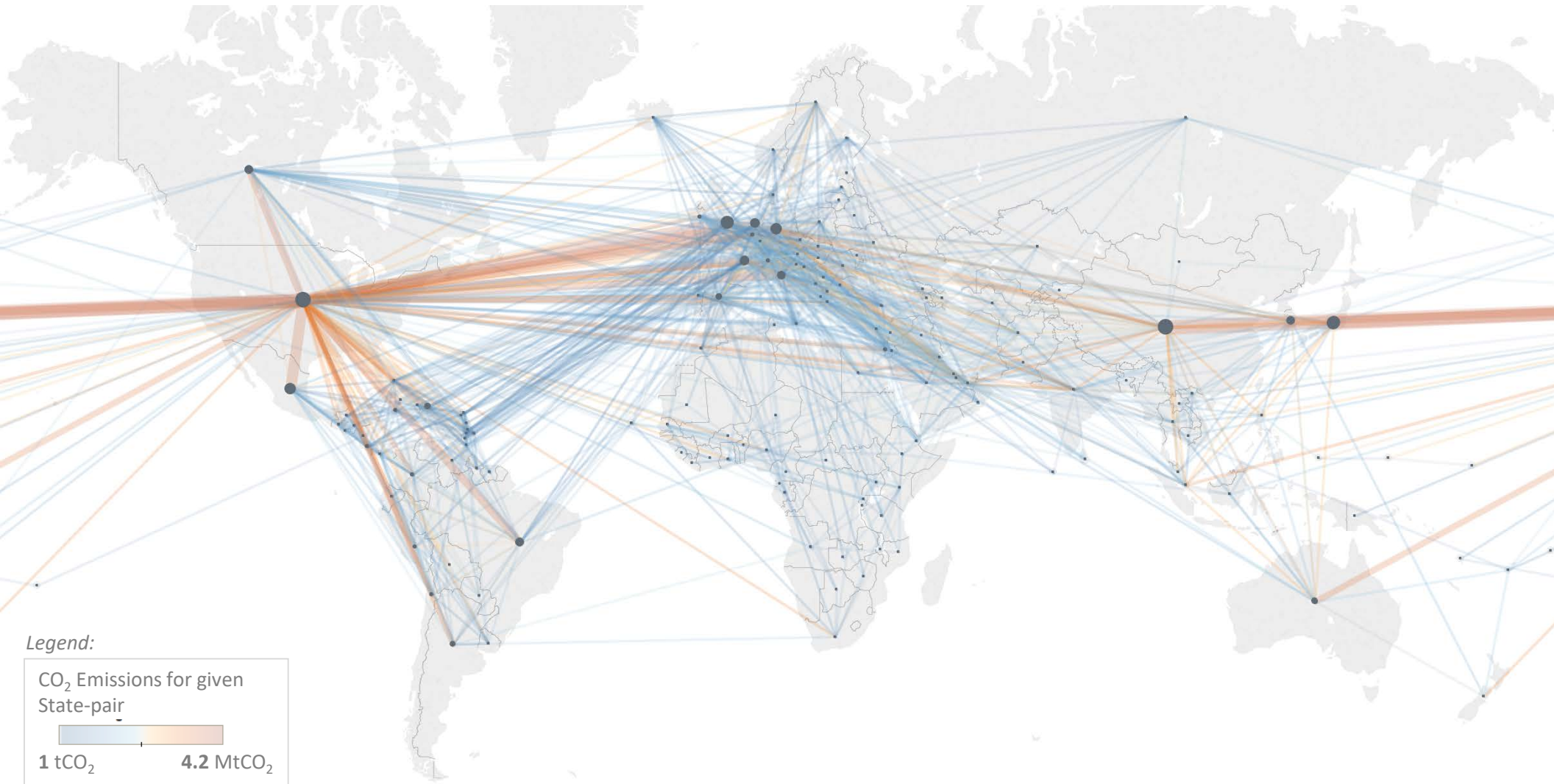
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Emissions Monitoring Plan reviewed and approved.

97.9%

of international fuel burn in 2018 (based on BTS T2 data).

United States Emissions Report 2019



50
Aeroplane Operators

1760
State-pairs

1.0 million
international flights

67.3 MtCO₂
from international
aviation in 2019



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FAA CORSIA Program

The FAA Office of Environment and Energy (AEE) is responsible for administering the FAA CORSIA MRV Program.

For general questions regarding the CORSIA MRV Program, contact:
Dan Williams, (202) 267-7988, 9-AWA-CORSIA@faa.gov



Additional Information and Resources

- **FAA CORSIA website**

- U.S. CORSIA MRV Program Statement (PDF)
- Attachment 1 – U.S. CORSIA Program Signatory Form (PDF)
- Attachment 2 – U.S. CORSIA EMP Template (MS Excel)
- Attachment 3 – U.S. CORSIA ER Template (MS Excel)

available at: https://www.faa.gov/about/office_org/headquarters_offices/apl/research/environmental_policy/

- **International Civil Aviation Organization (ICAO) CORSIA resources**

- CORSIA Standards and Recommended Practices (SARPs)
- CORSIA Environmental Technical Manual (ETM)
- ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT)

available at: <https://www.icao.int/corsia>

- **International Air Transport Association (IATA) CORSIA resources**

available at: <https://www.iata.org/policy/environment/Pages/corsia.aspx>



Questions?

