



ICAO

ENVIRONMENT

ICAO Seminar on CORSIA

Illustrative Exercise 4: CORSIA Data and Information Flow

ICAO Secretariat



- **Offsetting requirements:**

Offsetting requirements for an Aircraft Operator

=

Aircraft Operator's CO₂ emissions covered by CORSIA

X

Sector growth factor of the given year

- **Eligible emissions units:**

- ❖ Eligible Emissions Units

- Purchase ✘
- Sell ✘
- Surrender ✓

- ❖ Ineligible Emissions Units

- Purchase ✘
- Sell ✘
- Surrender ✘

Exercise 4 – Assumption

Assumption Table 7: Information on the routes operated by Aircraft Operator A1 in 2024, and resulting offsetting requirements under CORSIA in 2024

State	Airline	From	To	Covered?	CO ₂ (2024)	Sector Growth Factor (2024)
A	A1	A	B	Yes	60	21.10%
A	A1	A	C	No	60	
A	A1	A	D	Yes	60	
Total CO ₂ emissions covered by CORSIA in 2024 by the Airline A1					120	
Offsetting requirements for Aircraft Operator A1					25.3	

Assumption Table 8: Information on programmes issuing emissions units

Programme	Emissions Unit Identification Numbers	Eligibility for CORSIA
A	1000-1999	Eligible
B	2000-2800	Eligible
C	3000-3486	Eligible
D	4000-4999	Ineligible
E	5000-5450	Eligible
F	6000-6900	Ineligible
G	7000-7200	Ineligible
H	8000-8999	Eligible
I	9000-9900	Eligible



Exercise 4-A / Instruction

Based on the information provided:

a) How many eligible emissions units were surrendered, based on the information on transactions by Aircraft Operator A1 provided in the table below?

b) Did Aircraft Operator A1 meet its offsetting requirements for 2024?

Yes No Reason:

#	Transaction	Quantity of Units	Identification Numbers	Notes
1	Purchase	2	3455-3456	
2	Purchase	7	4587-4593	
3	Sell	4	4590-4593	
4	Surrender	1	4587	
5	Purchase	6	1111-1116	
6	Sell	2	1112; 3455	
7	Surrender	1	4588	
8	Purchase	3	3661-3663	
9	Surrender	1	3456	
10	Surrender	2	3662; 3663	
11	Purchase	20	2746-2765	
12	Surrender	9	2746-2754	
13	Surrender	14	1111; 1113-1116; 2755-2763	

Exercise 4-A / Solution

Based on the information provided:

a) How many eligible emissions units were surrendered, based on the information on transactions by Aircraft Operator A1 provided in the table below? 24 ✓

b) Did Aircraft Operator A1 meet its offsetting requirements for 2024?

Yes No Reason:

Programme	Emissions Unit Identification Numbers	Eligibility for CORSIA
A	1000-1999	Eligible
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H	8000-8999	Eligible
I	9000-9900	Eligible

#	Transaction	Quantity of Units	Identification Numbers	Notes
1	Purchase	2	3455-3456	Eligible Units (Purchase)
2	Purchase	7	4587-4593	Ineligible Units (Purchase)
3	Sell	4	4590-4593	Sell, not surrender (ineligible units)
4	Surrender	1	4587	Ineligible Units (Surrender)
5	Purchase	6	1111-1116	Eligible Units (Purchase)
6	Sell	2	1112; 3455	Sell, not surrender (eligible units)
7	Surrender	1	4588	Ineligible Units (Surrender)
8	Purchase	3	3661-3663	Invalid ID-Number → Ineligible Units (Purchase)
9	Surrender	1	3456	Eligible Units (Surrender)
10	Surrender	2	3662; 3663	Invalid ID-Number → Ineligible Units (Surrender)
11	Purchase	20	2746-2765	Eligible Units (Purchase)
12	Surrender	9	2746-2754	Eligible Units (Surrender)
13	Surrender	14	1111; 1113-1116; 2755-2763	Eligible Units (Surrender)

Exercise 4-A / Solution

Based on the information provided:

a) How many eligible emissions units were surrendered, based on the information on transactions by Aircraft Operator A1 provided in the table below? 24 ✓

b) Did Aircraft Operator A1 meet its offsetting requirements for 2024? ✓

Yes No Reason:

Not enough eligible emissions units surrendered (24 units) requirements of 25.3; (other emissions units were either not eligible or not surrendered (but sold), or had ineligible Identification

Programme	Emissions Unit Identification Numbers	Eligibility for CORSIA
A	1000-1999	Eligible
B	2000-2800	Eligible
C	3000-3486	Eligible
D	4000-4999	Ineligible
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Exercise 4-B / Introduction and Instruction

Introduction

- Aircraft Operators are required to submit various CORSIA-related data and/or information to their State.
- States are required to review that data / information and submit it to ICAO.
- ICAO in turn is required to produce information and provide it to the public, States and operators.

Instruction

Fill in the sections of the tables below with the data / information that is to be transferred and to which stakeholder.

Note: The stakeholders (for the right-hand column) in this exercise are: Aircraft Operators; States; ICAO; Eligible Emissions Programs; Verifiers; and the Public.

Aircraft Operators

Data / Information	From AO to whom?

States

Data / Information	From State to whom?

ICAO

Data / Information	From ICAO to whom?

Exercise 4-B / Solution

Introduction

- Aircraft Operators are required to submit various CORSIA-related data and/or information to their State.
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- ICAO in turn is required to produce information and provide it to the public, States and operators.

Instruction

Fill in the sections of the tables below with the data / information that is to be transferred and to which stakeholder.

Note: The stakeholders (for the right-hand column) in this exercise are: Aircraft Operators; States; ICAO; Eligible Emissions Programs; Verifiers; and the Public.

Aircraft Operators

Data / Information	From AO to whom?
Fuel Burn Monitoring / Estimation	State / Verifier
CO ₂ emissions data for international flights	State / Verifier
Post Verification of Emissions Report	State
Purchase / Sale / Surrender of Emissions Units	Emissions Programme
Volume / number of Emissions Units	State
Evidence / date that eligible emissions units were used to offset CORSIA requirements	State

States

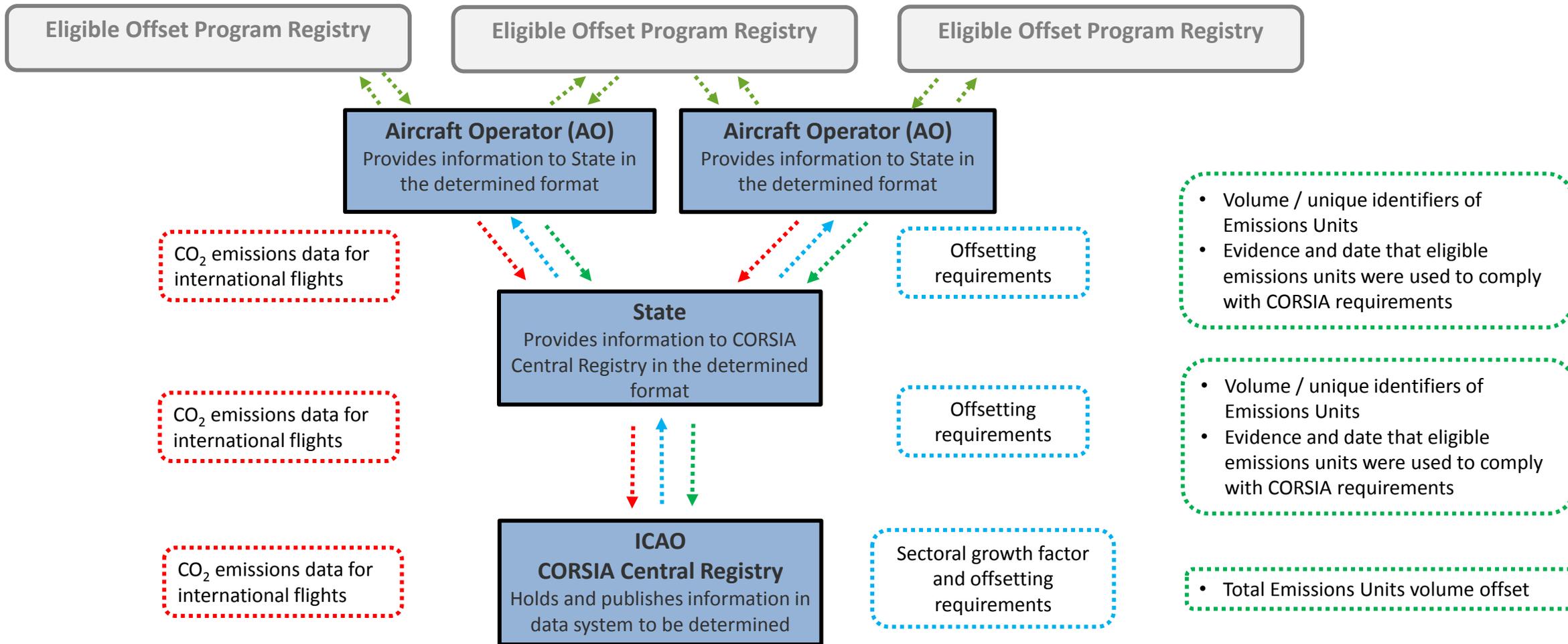
Data / Information	From State to whom?
CO ₂ emissions data for international flights	ICAO
Volume / number of Emissions Units	ICAO
Evidence / date that eligible emissions units were used to offset CORSIA requirements	ICAO
Offsetting requirements	Aircraft Operator

ICAO

Data / Information	From ICAO to whom?
Total sector CO ₂ emissions data for international flights	Public
Total emissions units volume offset	Public
Sector growth rate	Public / States
Offsetting requirements	States



Exercise 4-B / Solution



Sequence 1.
 -----> **CO₂ Emissions Data**

Sequence 2.
 -----> **Offsetting Req. Data**

Sequence 3.
 -----> **Emissions Units Data**