



BEST PRACTICES IN

Pharma  
Supply

Chain / 20  
25

# SUSTAINABLE AVIATION FUEL

A strategic ally for the supply chain in pharma

CEVA LOGISTICS  
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# **SUSTAINABLE AVIATION FUEL**

**A strategic ally for the  
supply chain in pharma**

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# MARKET CHALLENGES

## CO<sub>2</sub>e IN TRANSPORT

- ▶ Global transport represents 24% of worldwide carbon emissions
- ▶ 7% due to the combustion of fuel for freight transport
- ▶ Global air transport produces 2-3% of all manmade CO<sub>2</sub> emissions.





# WHAT IS SUSTAINABLE AVIATION FUEL (SAF)?

## HOW IS IT MADE?

SAF is mainly produced from **used cooking oil**

*(waste from restaurants) which limits resources exploitation/oil production.*

## WHICH BENEFITS

As waste is used, there is no CO<sub>2</sub>e emissions from **feedstock production.**

Compared to kerosene, SAF reduces CO<sub>2</sub>e emissions by **75 to 85%**.

## HOW IS IT USED?

It is injected in the fuel tanks of airports nearby SAF production plants (currently only in Northern Europe and Western USA) and blended with kerosene with no change on the aircrafts.

## WHAT DO YOU GET?

The CO<sub>2</sub> emissions reduction is traced. Your contribution and carbon savings are detailed on certificates provided.





# SAF PRICING FACTOR

## TYPE OF AIRCRAFT

The fuel consumption depends on the engine of the aircraft. The less fuel the airplane engine consumes, the less you need SAF to replace kerosene

## DISTANCE TRAVELLED

The longer the distance, the more kerosene is consumed, and therefore the more SAF is used to replace it

## GROSS WEIGHT

The more you increase the gross weight transported under SAF, the more kerosene will be allocated





# STANDARD PROCESS FOR SAF ACQUISITION



## ENQUIRE

**Measure** your fuel consumption in line with the GHG Protocol  
Estimate the overcost and CO2 reduction if you switch to SAF



## CHOOSE

Choose the **SAF quantity** you want to invest depending on your budget for that specific trade lane



## CONTRACT

**Contracts** with airlines/FF for SAF needed  
  
Freight forwarder allocate SAF to your shipment based on your fuel consumption



## DECLARE

Declare your CO2 emission reduction with **a certificate** provided

PROCESS

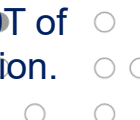
EXAMPLE

100T of CO2e emitted in 2022 which represents 32 000L of kerosene consumed

Your objective is to reduce your CO2e emission by 50T that will need 19 200\$ investment

Purchases 21 300L of SAF with your 19 200\$ investment

You get a certificate for 21 300L of SAF, meaning a 50T of CO2e reduction.





# INVESTMENT & CO2 examples - CDG >> CAN

CDG

CAN

Per kg transported

shipments : 40T transported

-25% CO2e

0,62\$ / kg

1,63kgCO2e saved

65 TCO2e saved

24 924\$

-50% CO2e

1,25\$ / kg

3,25kgCO2e saved

130 TCO2e saved

49 847\$

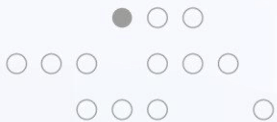
-75% CO2e

1,89\$ / kg

4,88kgCO2e saved

195 TCO2e saved

83 918\$



# INVESTMENT & CO2 examples - CDG >> JFK

