

Air France and KLM Corporate SAF Program

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Air France and KLM proudly partner with



Aviation decarbonization is part of Paris Agreement

Climate goals world and key initiatives aviation industry

*What the **world** wants to achieve*

191 nations signed the UN Paris Climate Agreement in 2015. These nations agreed to **limit world's temperature increase** well below 2°C and pursue efforts to limit increase to 1.5°C.

*What the **aviation sector** wants to achieve*

Aviation industry (IATA) wants to contribute towards global climate ambition and has set a **net zero target by 2050**

Key initiatives to reach these goals

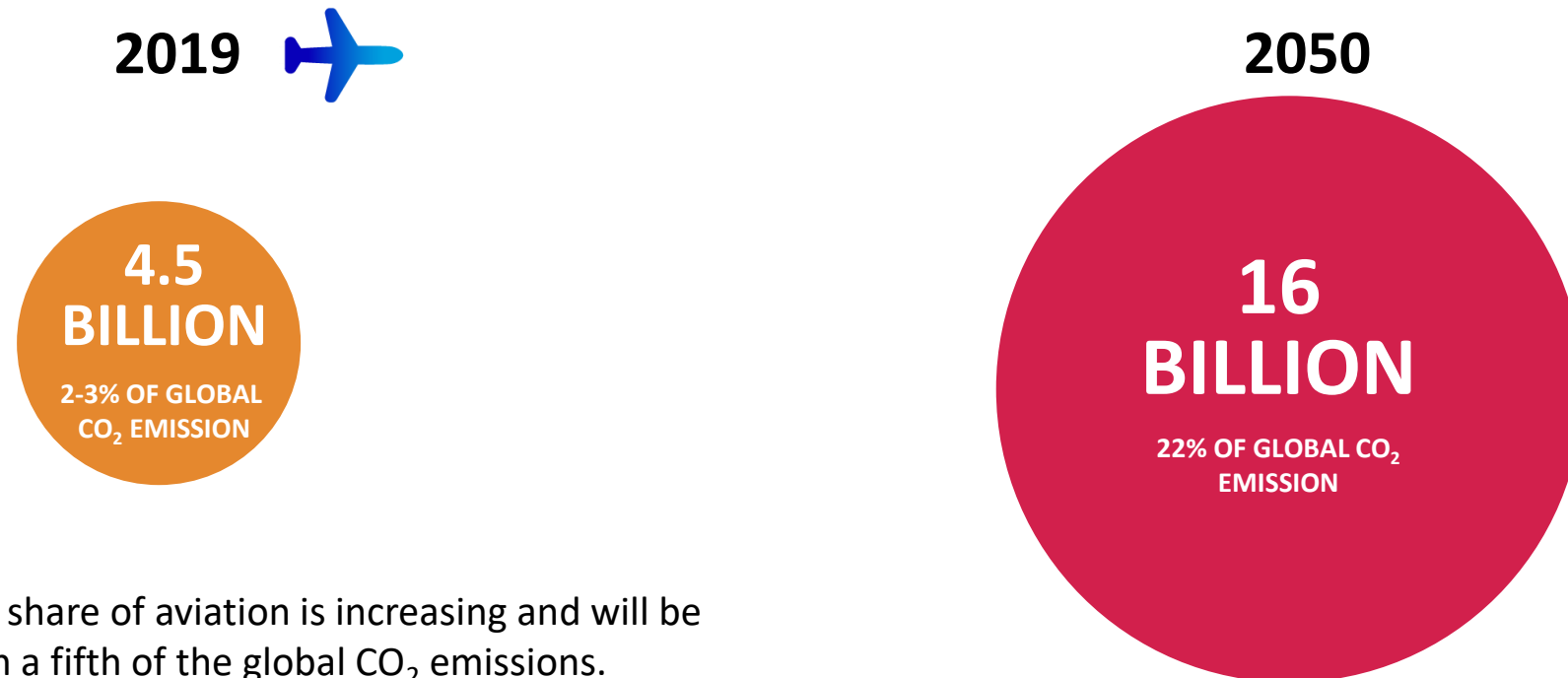
- **CORSIA**: IATA uses **CORSIA** as a bridge mechanism to address emissions from aviation globally
- **EU-ETS**: Under **EU Fit for 55**, **EU-ETS** remains in place as part of EU cap and trade system, covering emissions on intra-EU flights
- **SBTi** created guidance for aviation industry to set **science-based targets** aligned to 1.5-2°C Paris goals

What is going on?

Why is it so important for airlines to take action now?

Why is the share of aviation in CO₂ emissions increasing?

- Currently the share of aviation in greenhouse gas emissions is between 2 and 3%
- But growing number of passengers and
- Decarbonization of other sectors (for instance alternatives such as electric cars)



➡ Without action, the share of aviation is increasing and will be responsible for more than a fifth of the global CO₂ emissions.

How do we accelerate our sustainability transformation



Fleet renewal

64% of new generation aircraft in the group's fleet by 2028. New generation aircraft: on average 15% lower CO2 emissions

10% in 2021 → 17% in 2022 → 23% in 2023 → 33% in 2024 → 41% in 2025 → 48% in 2026 → 56% in 2027 → 64% in 2028



Encouraging equal opportunity

Equality between men and women, supporting diversity & inclusion. Committed to combatting discrimination in all aspects



Promoting alternative transport for short distances and offer a combination of different modes of transport (e.g. air + train)



Sustainable aviation fuel (SAF)

As a pioneer, our goal is blend in more SAF than the EU target

1% in 2022 → 5% in 2025 → 10% in 2030 → 63% in 2050



rethink, reduce, reuse and recycle

Implementing the principles of the **circular economy**. Reducing food waste: adjust catering and strict policy on merchandise inventory management. Eliminating single used plastic

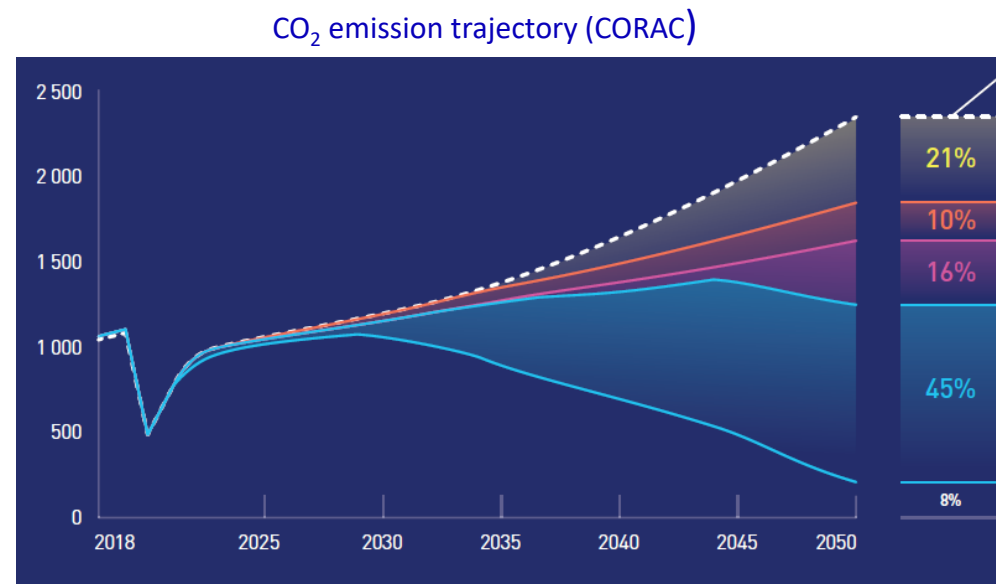
Sustainable products & services, with health & safety as strong basis

Air France and KLM: How to reduce our CO2 emissions?

The contribution of measures

What measures are part of the Air France KLM CO₂ emission trajectory?

- 1. Reducing our direct CO₂ emissions**
e.g. fuel consumptions
- 2. Reducing our indirect CO₂ emissions**
By working together with our partners, customers and suppliers
- 3. Absorbing CO₂ in the atmosphere**
by supporting certified off-setting projects, for example through Direct Air Carbon Capture and Storage



-30% per pax km vs 2019

Net CO₂ emissions

Fleet renewal Replace fleet with more efficient aircraft

Operational efficiency Eco-piloting, Single European Skies

New Technology New turbine / aerodynamic frameworks and Liquid Hydrogen

SAF (Biofuels & Synfuels) SAF plays a central role in decarbonization

Remaining emissions to be compensated with high-quality offsets (e.g. DACCS)

Collaboration with OEMs, governments and regulators

Collaboration with energy value chain

What is SAF?

Sustainable aviation fuel

SAF...



...is made from renewable sources like used cooking oil, straw and wood residues

...used by Air France and KLM is truly sustainable and certified as such



...is not yet available on a large scale.

Usage and production should be accelerated

80%



...is proactively reducing emissions by at least 80%



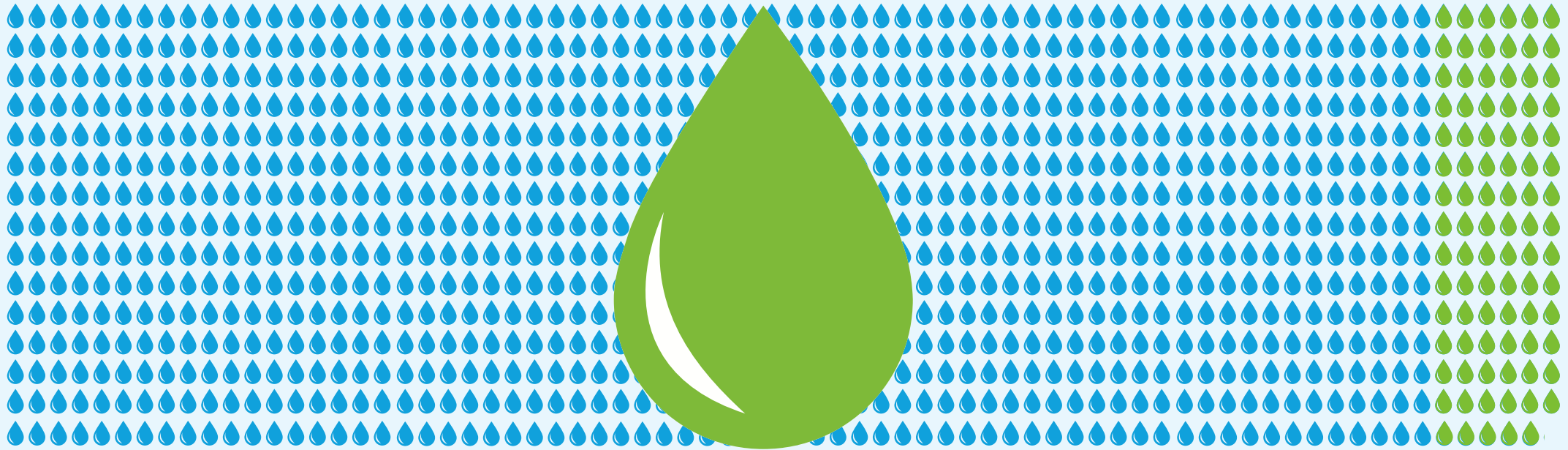
...is produced in a cleaner, circular process and contributes to a circular economy

...is a so called drop-in fuel, it blends perfectly with fossil fuel



Current SAF usage

Airline industry worldwide



Today, less than 0.1% of the roughly 300 million tons of jet fuel used by commercial airlines is SAF. We need to accelerate its usage and production on short term to make flying more sustainable.

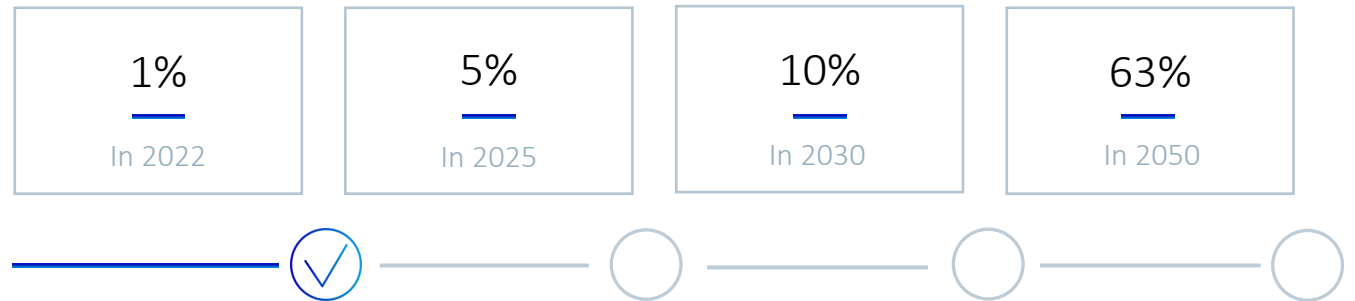
Air France and KLM set a new standard a small but important step forward

Since January 2022, Air France and KLM blend in an 0,5% of SAF of our total fuel of our flights departing from France & The Netherlands, while we also include a small sustainable fuel contribution in our ticket price (fully transparent).

A new standard

With this initiative, Air France and KLM set a new standard for sustainable air travel. We start small, to make sure that once SAF is more widely available, we are ready to scale up.

Air France and KLM have agreed on the following implementation path for blending in SAF:



As pioneers, our goal is to go beyond the EU targets.

Where the EU demands 2% of SAF in 2025, we aim to blend in 5% SAF by 2025 and 10% by 2030

RefuelEU:

European regulation for sustainable fuel

- A regulation approved by European Commission in 2021
- To boost the supply and demand for sustainable aviation fuels (SAF) in the EU.
- Fuel suppliers at European airports are obliged to include a minimum of 2% of SAF in aviation fuel per 2025





Making flying more sustainable

There
you go

Our Corporate SAF program

Make SAF available around the globe

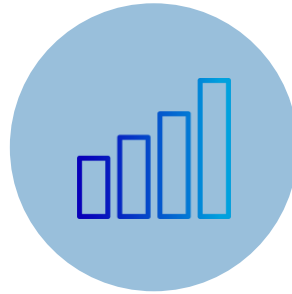
Only together we can bring sustainable aviation closer

What would we like to accomplish with our Corporate SAF program? Reasons to join the program.

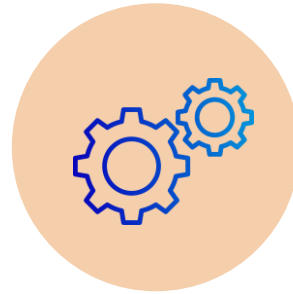
Only together we can:



✓ **Raise awareness for the SAF market**



✓ **Stimulate SAF demand and usage**



✓ **Optimize SAF production**

Why choose the Air France and KLM SAF program?

Air France-KLM has a track record in pioneering in the use of SAF:

2008	Air France KLM becomes member of Roundtable on Sustainable Biomaterials (RSB) to ensure supply of sustainable feedstock
2011	First commercial Air France and KLM flights with SAF
2012	Launch of KLM Corporate BioFuel Program
2013-2020	Ad hoc availability of SAF at different destinations
2014-2016	Lab line, the Air France corporate biofuel program
2016	Since 2016, all KLM flights Los Angeles – Amsterdam have SAF blend in (1,400+ flights)
2019	Air France A350 delivery flights with SAF
2021	> Launch Air France and KLM Corporate SAF Program > KLM first passenger flight with sustainable synthetic fuel
2022	Blending in 0.5% - 1% SAF on all flights departing France and The Netherlands
2023	Sustainable Aviation Fuel plant in NL and FR

Air France and KLM Corporate SAF program

Benefits of the program

Partners in development of SAF



Become a pioneer in sustainable aviation and support the transition from fossil fuel to SAF

Lower CO₂ emissions



Reduce the footprint from business travel by at least 80% and support your sustainability goals

Reduce your corporate travel CO₂ emission (scope 3)

Report, certification

We support your organization in making your own scope 3 claim.

- With a custom-made annual report
- Verified by independent third-party auditor.

The report includes:

- Your company's CO₂ emissions of business travel and the impact of your contribution on reducing CO₂ emissions
- Proof documents required by SBTi to make a scope 3 emission calculation (e.g. sustainability certificates, proof of consumption and proof of custody).

Marketing exposure

Exposure, media coverage and (press) event possibilities for a wider audience: both external stakeholders as well as your employees

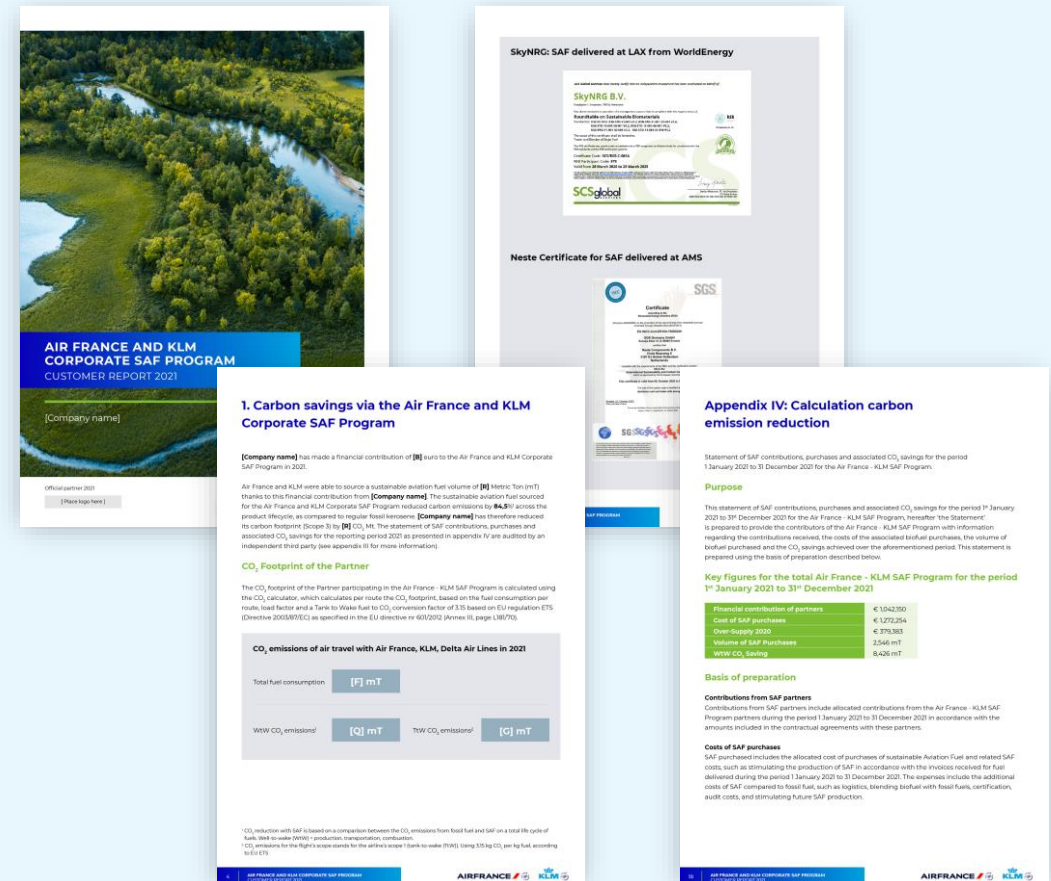
Yearly sustainability report

Your contribution clearly stated and audited by KMPG

Our SAF program partners receive an annual sustainability report.

Including the data and proof documents that SBTi requires to make a scope 3 claim.

- Sustainability certificates
- Proof of consumption and proof of custody
- Total fuel consumption on Air France, KLM and Delta Air Lines
- Total CO₂ emissions (TtW and WtW) on Air France, KLM and Delta Air Lines
- Premium paid
- Purchased SAF
- GHG emission reduction %
- Fossil fuel emission factors used
- Proof of sustainable certification (RSB or ISCC)
- Feedstock used
- Life Cycle Analysis (LCA)
- Production sites & process



AIR FRANCE AND KLM CORPORATE SAF PROGRAM CUSTOMER REPORT 2021

1. Carbon savings via the Air France and KLM Corporate SAF Program

CO₂ Footprint of the Partner

CO₂ emissions of air travel with Air France, KLM, Delta Air Lines in 2021

Total fuel consumption	[F] mT		
WtW CO ₂ emissions ¹	[Q] mT	TtW CO ₂ emissions ²	[C] mT

Appendix IV: Calculation carbon emission reduction

Key figures for the total Air France - KLM SAF Program for the period 1st January 2021 to 31st December 2021

Financial contribution of partners	€ 1,542,250
Cost of SAF purchases	€ 1,272,254
Over-Supply 2020	€ 379,383
Volume of SAF Purchases	2,546 mT
WtW CO ₂ Savings	4,426 mT

Air France and KLM only use certified SAF

Certificates of our SAF



THANK YOU

