



Decarbonization Journey

E-fuel Seminar

Bodø Norway

Elise Roc – Director New Energies

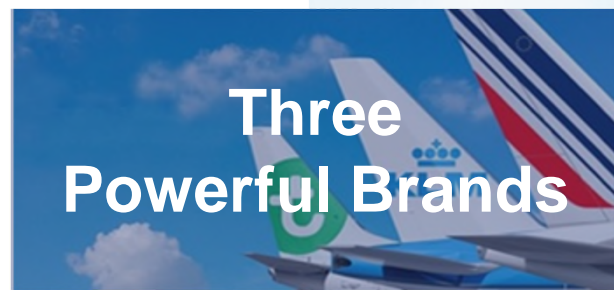




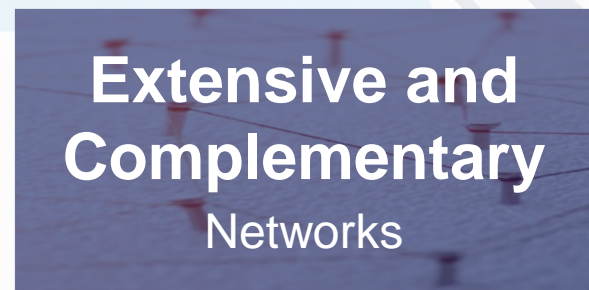
The entire Air France-KLM Group is committed to implement the recovery and to fulfill its purpose



71,000
Passionate and Professional People



Three Powerful Brands



Extensive and Complementary Networks



Unique Competitive Advantages of our Home Markets



World-leading Businesses
Cargo, E&M, Flying Blue



Strong Partnerships

Our achievements and current dynamic prove that we have the ability to excel, with the support of our people and shareholders



AIR FRANCE-KLM TO INVEST IN SAS THROUGH EQUITY TO ACHIEVE COMMERCIAL COOPERATION AS PART OF ITS CONSOLIDATION STRATEGY



Air France-KLM to take a 19.9% non-controlling stake in the share capital of the reorganized SAS AB



Enhance the Group's footprint in the highly contributive Scandinavian market by setting up a commercial cooperation



Option for Air France-KLM to become a controlling shareholder after a minimum of two years¹

Scandinavia ranked **4th European GDP²**

Scandinavia ranked **5th Air France-KLM point of sales²**

SAS, largest Scandinavian³ airline by passengers

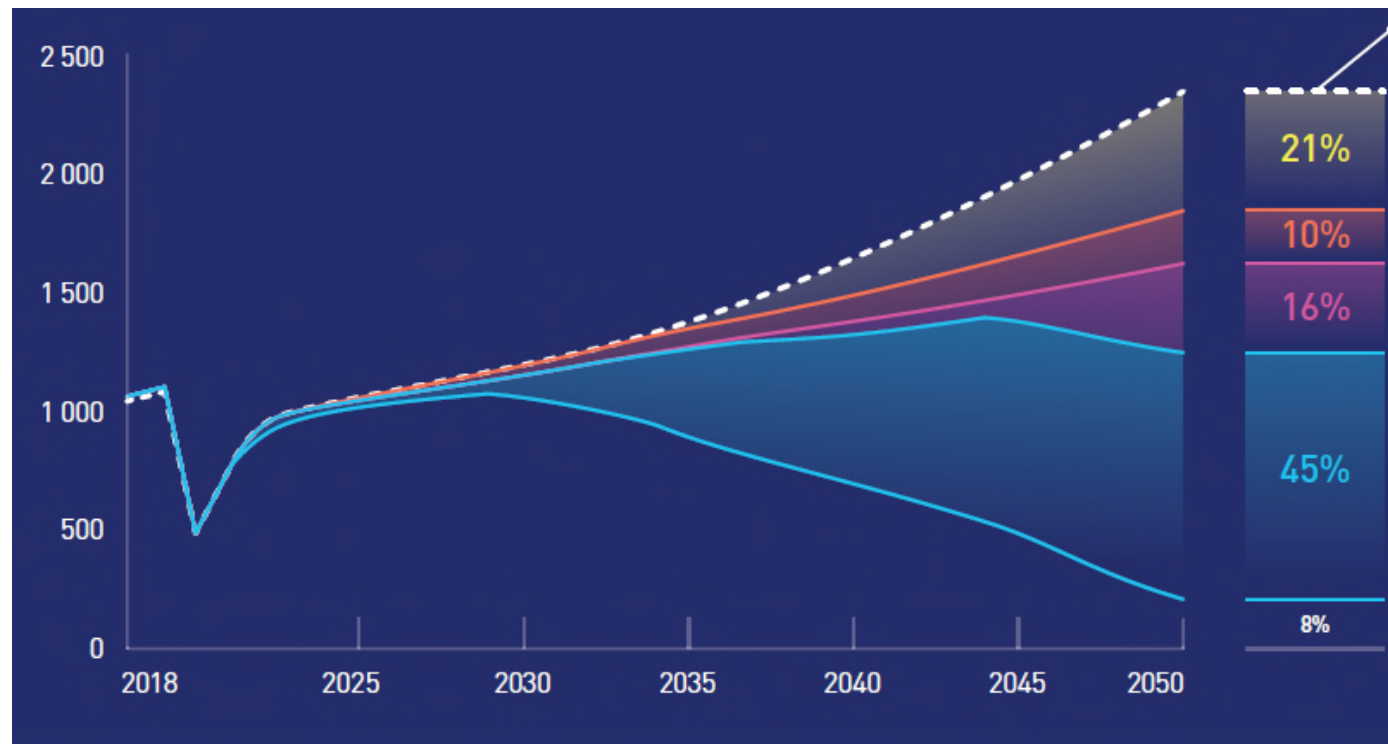


1) The Consortium's investment remains subject to conditions including SAS' financial performance and regulatory approvals including, but not limited to, Restructuring approval from the European Commission, the US court overseeing in the Chapter 11 reorganization and, in respect of SAS AB, the Swedish court
2) Number of passengers, 12-months rolling October 2022 to September 2023
3) Scandinavia includes Denmark, Sweden and Norway



We are driving collaboration across the entire aviation ecosystem to reach Net Zero

CO₂ emission trajectory (CORAC)



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



-30% per pax km vs 2019



Net Zero

4.3.5.1 Carbon emission indicators

		Unit	Air France - KLM Group		
			2021	2022	22/21
Greenhouse gas emissions (Scope 1 GHG protocol) ^(b)	Conventional Aviation Fossil Fuel \checkmark	kt _{CO₂eq}	16,279	22,442	38%
	Sustainable Aviation Fuel	kt _{CO₂eq}	13.3	132.5	x10
	Ground Operations	kt _{CO₂eq}	46.3	45.1	-3%

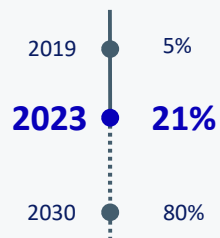
Our 3 main levers to reduce CO₂ impact

Next gen aircraft

A320neo	A220	A350
-15%	-20%	-25%

CO₂ emission/pax/km vs previous generation

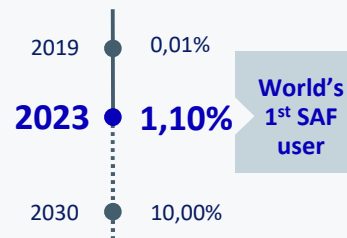
Next gen aircraft in our fleet:



Sustainable Aviation Fuel

~90% of our CO₂ emissions come from jet fuel
↓75% less CO₂ emissions with our SAF choice vs fossil jet fuel

SAF incorporation rate:



Operational measures

- **Eco-piloting**, single engine taxiing, speed flying, continuous descent, optimized flight planning and speed of flying
- **Aircraft performance improvement** (maintenance, engine wash, aircraft washing, reduce APU usage...)
- **Weight reduction** (OEM suppliers, catering quantities, type of seat...)

AFKL CO₂ efficiency (gram of CO₂ equivalent / passenger / km)



- **CO₂ efficiency in 2023 close to 2019 levels** despite these efforts
- **Cargo and pax load factors** are key to achieving sustainability targets

85,3% passenger load factor in 2023

Contribution to target



Next generation aircraft



SAF



2030
-30% CO₂ / RTK*

*vs 2019. RTK = Revenue tonne kilometre



AIR FRANCE-KLM IS LEADING THE JOURNEY TO REACH AT LEAST 10% SAF INCORPORATION IN 2030



EUROPEAN MANDATORY SAF APPLIED TO AIR FRANCE-KLM AVERAGE BLENDING RATIO FORECAST

2022	
2023	
2025	1.2%
2030	3.9%
2035	13%
2050	46%

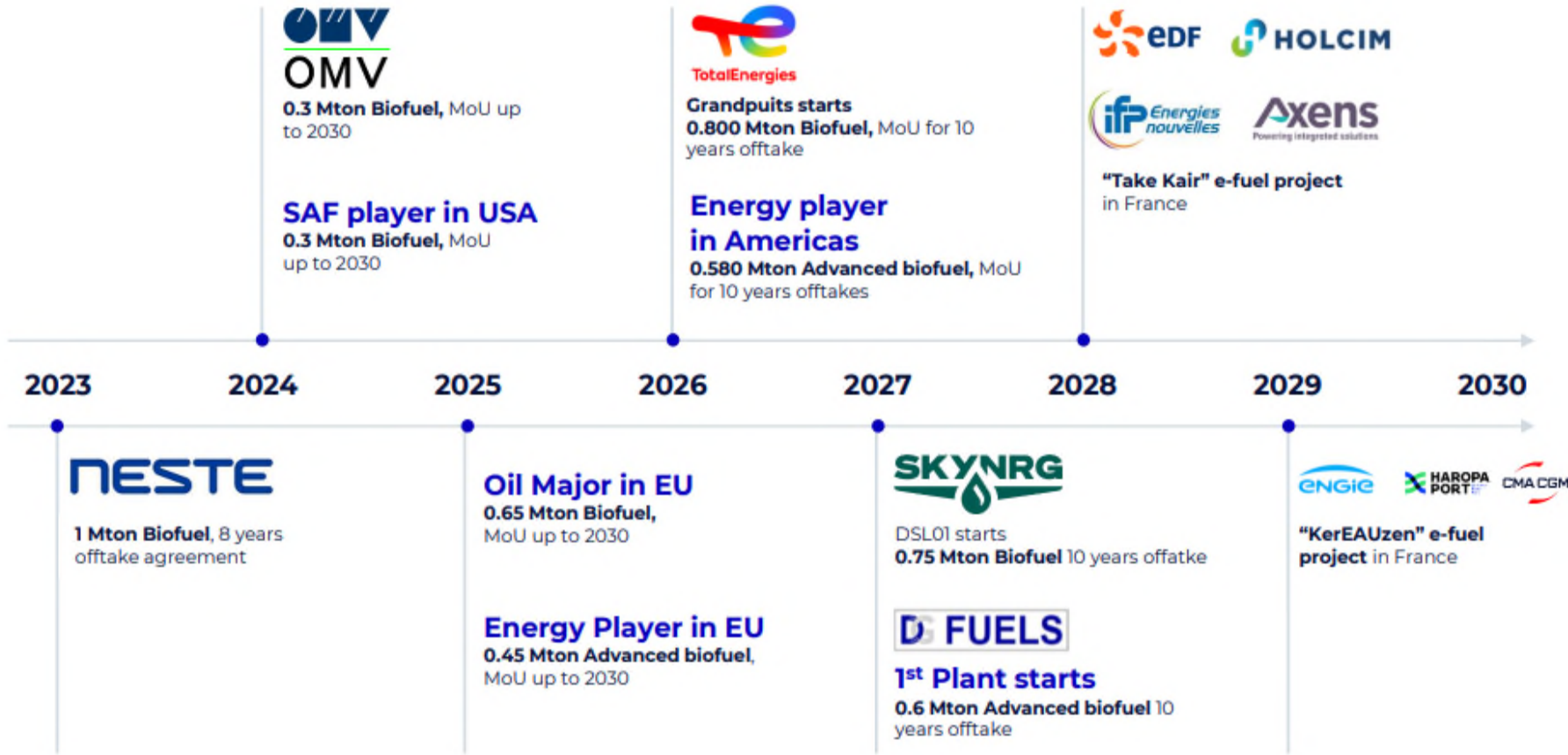
AIR FRANCE-KLM EXTERNAL COMMITMENTS

- World's 1st SAF user (17% of global prod.)
- 0.6% SAF BLENDING RATIO
- World's 1st SAF user (16% of global prod.)
- 1% SAF BLENDING RATIO
- 2.2% SAF BLENDING RATIO
- 10% CO2/RTK (vs'19)
- Min 10% SAF BLENDING RATIO
- 30% CO2/RTK (vs '19) – SBTi

Net Zero carbon emissions

AIR FRANCE-KLM SOURCING INITIATIVES TO REACH 2030 SAF TARGET KEEPING FLEXIBILITY IN VOLUMES TO MATCH OUR DEMAND

Air France-KLM possible offtakes – Key SAF Projects start-up date



Air France-KLM sourcing strategy

- We have prospects covering our needs for 2030 volumes, including e-Fuels projects in Europe
- Our strategy relies on materializing the contracts based on best:



Price



Availability



Quality

Status of SAF projects in France Dec 2023

