

Press Release

Air France-KLM, Total, Groupe ADP and Airbus Join Forces to Decarbonize Air Transportation and Carry Out The First Long-Haul Flight Powered By Sustainable Aviation Fuel Produced in France

Paris, May 18, 2021 – Air France-KLM, Total, Groupe ADP and Airbus have joined forces to carry out the first long-haul flight powered by Sustainable Aviation Fuel (SAF)¹ produced in France. At 3:40 p.m. today, Air France Flight 342 took off from Paris-Charles de Gaulle airport's Terminal 2E for Montreal with its tanks filled for the first time with sustainable aviation fuel produced in Total's French plants.

This flight is a tangible result of the four groups' shared ambition to decarbonize air transportation and to develop a SAF supply chain in France, prerequisite to the generalization of their use in French airports.

No modifications to storage and distribution infrastructure, aircraft or engines are required to incorporate biofuels. Their gradual introduction worldwide should significantly reduce CO₂ emissions from air transportation, in line with the United Nations' Sustainable Development Goals.

The biofuel used for this flight was made from waste and residue sourced from the circular economy. Total produced the SAF from used cooking oil at its La Mède biorefinery in southern France and at its Oudalle factory near Le Havre, without using any virgin plant-based oil.

This first 100% French SAF received ISCC-EU certification from the International Sustainability & Carbon Certification System, an independent organization that guarantees sustainability. The 16% blend on this flight avoided the emission of 20 tons of CO₂.

By developing and supporting France's first industrial SAF production, Air France-KLM, Total, ADP Group and Airbus are paving the way for France to drive innovation in the energy and environmental transition. French legislation calls for aircraft to use at least 1% SAF by 2022 for all flights originating in France, ahead of the European ambition scheduled to gradually ramp up to 2% by 2025 and 5% by 2030, as part of the European Green Deal.

To meet these requirements, Total will also produce SAF at its Grandpuits zero-crude platform near Paris as from 2024.

Today's flight also illustrates the synergy of the different drivers for reducing aviation's environmental footprint, i.e., sustainable aviation fuel, latest-generation aircraft and electrification of ground operations. The Airbus A350 used for the flight consumes 25% less fuel than its predecessor. What's more, the aircraft was serviced by the first 100% all-electric refueling truck, developed in France with Total expertise, and all of the ground support equipment used by Air France was fully electric powered.

¹ Sustainable aviation fuel (SAF) is a blend of conventional aviation fuel (JET-A1) and biojet fuel made from waste and residue sourced from the circular economy (animal fat, used cooking oil, etc.). Biojet fuel has similar properties to JET-A1 and produces up to 90% fewer CO₂ emissions over its lifecycle compared with the fossil equivalent.

Air France-KLM is a pioneer in testing sustainable aviation fuels. KLM made its first SAF-powered flight in 2009. Since then, the Group has multiplied the number of innovative programs. Between 2014 and 2016, for example, it carried out 78 Air France flights powered by a 10% SAF blend in collaboration with a Total affiliate. These tests showed that the use of SAF had no impact on the reliability of airline operations. Air France-KLM intends to strengthen its leadership in SAF in the years ahead, while contributing to research on future generations of aircraft.

In addition to this flight, Airbus is conducting several series of tests to certify airliners to fly with 100% SAF in the coming decades. Airbus has also installed SAF refueling stations at its industrial facilities so it can be used in production operations, as well as for aircraft deliveries. These installations contribute to Airbus's ambition to decarbonize all of its industrial operations.

For this first flight, **Benjamin Smith, CEO of Air France-KLM**, stated: *"For many years, the Air France-KLM Group has been committed to reducing its environmental footprint. Together with the renewal of our fleet, sustainable aviation fuels constitute our main lever in the medium-term for reducing our CO₂ emissions per passenger/km by half by 2030. These two actions are therefore central to our strategy, alongside eco-piloting and achieving carbon-neutral ground operations. France currently has the opportunity to position itself as a leader in the production and use of sustainable fuels and we are doing everything possible to contribute to this with our partners. Supporting the emergence of an economically viable French aviation biofuel sector for all the parties involved is a strategic priority for the country and the group."*

Patrick Pouyanné, Chairman and Chief Executive Officer of Total, declared: *"The development of biofuels is part of Total's broad-energy strategy for decarbonizing the transportation industry. After successfully launching production of sustainable aviation fuels at our facilities in France last March, we are continuing to adapt our industrial facilities to prepare for the growing demand from the aviation industry in the coming decade. By directly reducing the carbon intensity of the energy products used by our aviation industry customers, we are actively working with them to achieve our ambition to get to net zero by 2050, together with society."*

Augustin de Romanet, Chairman and CEO of Groupe ADP, stressed: *"This first flight from Paris-Charles de Gaulle airport is a symbol of our ambition to decarbonize air transport by integrating new sustainable air fuels into aircraft. The European air transport roadmap aims for zero net emissions by 2050, and we are keen, as an airport operator, to support this energy transition and to embark, without delay, on the path of transforming our operation process and infrastructure."*

And **Guillaume Faury, CEO of Airbus** added: *"Sustainable fuels are a major lever for achieving our objectives of decarbonizing the aviation sector, and Airbus supports all initiatives that contribute to their development and use on commercial flights. Coordinated action by all stakeholders is needed to increase the share of these sustainable fuels, which can be used today on up to 50% of our aircrafts, without any modification or operational impact, thereby reducing their environmental footprint."*

About Air France-KLM

A global player with a strong European base, the Air France-KLM Group's main areas of business are passenger transport, cargo transport and aeronautical maintenance. Air France-KLM is a leading airline Group in terms of international traffic on departure from Europe. It offers its customers access to a worldwide network, covering over 300 destinations thanks to Air France, KLM Royal Dutch Airlines and Transavia, mainly from its hubs at Paris-Charles de Gaulle and Amsterdam-Schiphol.

Its Flying Blue frequent flyer programme is one of the leaders in Europe with over 16 million members. Together with its partners Delta Air Lines and Virgin Atlantic, Air France-KLM operates the largest transatlantic joint venture, with more than 275 daily flights in 2019. Air France-KLM is also a member of the SkyTeam alliance which has 19 member airlines, offers access to a vast global network and provides its customers with a seamless and quality travel experience.

Air France-KLM is fully committed to sustainability and will accelerate to reduce its environmental footprint. The aim is to make a significant contribution to the UN Sustainable Development Goals in connection with the Group's activities.

More information on: www.airfranceklm.com and on Twitter: @AirFranceKLM

About Total

Total is a broad energy company that produces and markets fuels, natural gas and electricity. Our 100,000 employees are committed to better energy that is more affordable, more reliable, cleaner and accessible to as many people as possible. Active in more than 130 countries, our ambition is to become the responsible energy major.

More information on: www.total.com and on Twitter: @TotalPress

About Groupe ADP

Groupe ADP develops and manages airports, including Paris-Charles de Gaulle, Paris-Orly and Paris-Le Bourget. In 2019, the group handled through its brand Paris Aéroport more than 108 million passengers and 2.2 million metric tons of freight and mail at Paris-Charles de Gaulle and Paris-Orly, and more than 110 million passengers in airports abroad.

Boasting an exceptional geographic location and a major catchment area, the Group is pursuing its strategy of adapting and modernizing its terminal facilities and upgrading quality of services. The group also intends to develop its retail and real estate businesses. In 2019, group revenue stood at €4,700 million and net income at €588 million.

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More information on: www.groupeadp.fr/en and on Twitter: @GroupeADP

About Airbus

Airbus is the pioneer of a sustainable aviation and space industry for a safe and united world. The company is constantly innovating to provide efficient and technologically advanced solutions in aerospace, defense and connected services. In commercial aviation, Airbus provides modern, fuel-efficient airliners and related services. Airbus is also a European leader in defense and security, and a major global player in space. In civil and military helicopters, Airbus provides the world's most advanced solutions and services.

More information on: www.airbus.com and on Twitter: @Airbus @AirbusPress

Media and Investors contacts :

Air France-KLM

Press office : + 33 (0)1 41 56 56 00 - mediarelations@airfranceklm.com

Total

Media Relations : +33 1 47 44 46 99 | presse@total.com | [@TotalPress](https://twitter.com/TotalPress)

Investor Relations : +44 (0)207 719 7962 | ir@total.com

Groupe ADP

Press contact: Lola Bourget, Head of Medias and Reputation Department, +33 1 74 25 23 23

Investor Relations: Audrey Arnoux, Head of Investor Relations, +33 6 61 27 07 39 - invest@adp.fr

Airbus

Press: Matthieu Duvelleroy, +33 6 29 43 15 64 - matthieu.duvelleroy@airbus.com

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