

## PRESS RELEASE

### First rescue helicopter flies on sustainable aviation fuel

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A rescue helicopter has flown on sustainable aviation fuel (SAF) for the first time, achieving a new milestone in international aviation. Operated by the German non-profit organization ADAC Luftrettung, the Airbus H145 rescue helicopter has its Arriel 2E engines ceremonially refuelled with biofuel, a type of SAF, at the air rescue station at Munich's Harlaching Clinic in the presence of the ADAC Foundation's board of directors, as well as the managing directors and top management of ADAC Luftrettung, the engine manufacturer Safran Helicopter Engines, the helicopter manufacturer Airbus Helicopters, and the energy company TotalEnergies. Together, these companies will be a driving force in the decarbonisation of helicopter flight by moving away from fossil fuels.

The biofuel fueling the H145 is a second-generation biofuel - the SAF of choice of the aviation industry - which significantly reduces CO2 emissions because they are produced from residual and waste materials, usually from the food industry, such as used vegetable oils and fats. As a result, the fuel has no negative impact on agricultural food production. The fuel used for the first rescue helicopter flight in Munich was produced by TotalEnergies at its refinery in Normandy from used cooking oil.

With this SAF, the ADAC Luftrettung fleet could achieve a 33 percent reduction in CO2 emissions, which, with more than 50,000 rescue missions and more than 3.3 million kilometers flown per year, equates to a reduction of around 6,000 tons of CO2.

ADAC Luftrettung and engine manufacturer Safran Helicopter Engines share the same ambition to contribute to the development of SAF usage including up to 100%. To this effect they are launching a project with one ADAC rescue helicopter in Cologne. The project will study all aspects of biofuel usage on the H145, with an operational campaign to start as early as summer 2021.

Following the biofuel premiere, the managing directors of the two companies, Frédéric Bruder, Managing Director of ADAC Luftrettung, and Franck Saudo, CEO Safran Helicopter Engines, signed a long-term agreement on SAF, which envisages increasing the blending ratio of biofuel to up to 100 percent in the coming years and subsequently also promoting the use of synthetic e-fuel, also known as Power-To-Liquid kerosene (PTL), another drop-in alternative to fossil fuels, which along with the use of biofuel will allow aviation to get closer to climate-neutral aviation. PTL refers to the generation of liquid fuels produced using electrical energy from renewable sources.

Biofuel is currently certified and approved for aviation use in a maximum blend of 50 percent with conventional kerosene of the JET-A1 type. The ADAC rescue helicopter was flown on a 40 percent blend.

Dr. Andrea David, CEO of the non-profit ADAC Foundation, to which ADAC Luftrettung belongs, says that, "for us, the Sustainable Aviation Fuel pilot project is a first big step on the way to a climate-neutral ADAC Foundation and air rescue service, and our contribution as a non-profit organisation to achieving the climate protection goals of Germany and Europe."

"We want to be a pioneer in reducing CO2 in emergency medical services with environmentally friendly kerosene. This means we must also develop air rescue technologically so that the use of SAF is future-proof in the longer term. To achieve this, we have strong partners at our side," adds

Frédéric Bruder. "Importantly, SAF is an officially approved fuel, which means that flight and patient safety remain at the highest level."

Franck Saudo says: "Safran is leading engine industry efforts to reduce helicopter carbone dioxyde emissions. Along with this historic first flight, we signed an agreement with ADAC Luftrettung to expand the use of SAF in their Safran-powered helicopter fleet. All Safran engines are certified to operate on up to 50 percent sustainable fuel, including biofuel. Our goal is to reach 100 percent."

Bruno Even, CEO of Airbus Helicopters, says: "Pioneering sustainable aviation is a clear ambition for Airbus and enabling the use of sustainable aviation fuel is an important milestone for our industry. Today's event is the first step in reinforcing Airbus Helicopters' position of having the lowest CO2 emission product range in the world."

Christian Cabrol, Managing Director TOTAL Germany, adds: "TotalEnergies has set itself the target to get to net-zero emissions together with society by 2050. By developing biofuels, we are helping our aviation industry customers reduce the carbon intensity of the energy products they use. Our biokerosene (SAF) can be used directly and without any modification to the logistical infrastructure for storage and distribution or to the aircraft and engines. We are experiencing this in practice today. Last March, we successfully started producing sustainable aviation fuels in France and will now continue this in Germany."

**Safran** is an international high-technology group, operating in the aviation (propulsion, equipment and interiors), defense and space markets. Its core purpose is to contribute to a safer, more sustainable world, where air transport is more environmentally friendly, comfortable and accessible. Safran has a global presence, with 79,000 employees and sales of 16.5 billion euros in 2020 and holds, alone or in partnership, world or regional leadership positions in its core markets.

Safran is listed on the Euronext Paris stock exchange and is part of the CAC 40 and Euro Stoxx 50 indices.

**Safran Helicopter Engines** is the world's leading manufacturer of helicopter engines, with more than 75,000 produced since being founded. It offers the widest range of helicopter turboshafts in the world and has more than 2,500 customers in 155 countries.

For more information : [www.safran-group.com](http://www.safran-group.com) and [www.safran-helicopter-engines.com](http://www.safran-helicopter-engines.com) / Follow @Safran and @SafranHCEngines on Twitter 

With more than 50 rescue helicopters and 37 stations, the non-profit **ADAC Luftrettung** is one of the largest air rescue organizations in Europe. The ADAC rescue helicopters are part of the German rescue service system, are always requested from the control center via the emergency number 112 and are on the spot for any accident victim or sick person in an emergency. "Against time and for life" is the guiding principle of ADAC Luftrettung gGmbH because especially in the case of serious injuries or illnesses, the faster the patient is transported to a suitable hospital or treated on site by the emergency physician, the better their chances of survival or convalescence. Since 2017, ADAC Luftrettung has been a subsidiary of the ADAC Foundation.

The non-profit and charitable **ADAC Foundation** promotes research and educational measures to prevent accidents in order to increase road safety with scientific findings. In addition, the ADAC Foundation raises awareness among children and young people about road traffic hazards through its own programs. By promoting mobility research, the foundation helps to make road traffic more sustainable. In addition, the ADAC Foundation makes an important contribution to greater safety and innovation in the field of amateur motor sports. The foundation also supports accident victims in need of help with measures that give them back some of their personal mobility. With its funding focus on rescue from life-threatening danger, the ADAC Foundation supports air rescue in Germany and abroad and the improvement of acute and emergency medical care for emergency victims. ADAC Luftrettung gGmbH is a wholly owned subsidiary of the ADAC Foundation and one of the largest air rescue organizations in Europe.

**Airbus** pioneers sustainable aerospace for a safe and united world. The Company constantly innovates to provide efficient and technologically-advanced solutions in aerospace, defence, and connected services. In commercial aircraft, Airbus offers modern and fuel-efficient airliners and associated services. Airbus is also a European leader in defence and security and one of the world's leading space businesses. In helicopters, Airbus provides the most efficient civil and military rotorcraft solutions and services worldwide.

**TotalEnergies** is a broad energy company that produces and markets energies on a global scale: oil and biofuels, natural gas and green gases, renewables and electricity. Our 105,000 employees are committed to energy that is ever more affordable, clean, reliable and accessible to as many people as possible. Active in more than 130 countries, TotalEnergies puts sustainable development in all its dimensions at the heart of its projects and operations to contribute to the well-being of people.

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