

SAFRAN

Creating a Safer, More Sustainable World



Safran is an international high-technology group, operating in the aviation, 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 76,800 employees and sales of 15,3 billion euros in 2021 and holds world or regional leadership positions in its core markets. It also expanded to Singapore in 1988.

SAFRAN'S CSR STRATEGY

In October 2021, Safran joined the Air Transport Action Group (ATAG) in committing to a goal of net-zero carbon emissions by 2050. This new commitment seeks to contribute to worldwide efforts to comply with the Paris Agreement and limit mean surface temperature warming to below 2°C.

Safran Group's Corporate Social Responsibility (CSR) strategy is developed to ensure that the goal of net-zero is met. The 1st of the 4 pillars of its CSR is to "Decarbonize Aeronautics". There are 3 major commitments within this pillar - make carbon neutral aircraft the R&T priority, reduce CO2 emissions throughout its value chain, and involve employees in reducing their carbon footprint.

Tracking sustainability efforts

In addition to financial KPIs, Safran has 3 non-financial KPIs to track its sustainability efforts. Regarding Scope 3 emissions, Safran ensures that 75% of its R&T investments are focused on environmental efficiency by developing more fuel efficient engines and equipment to be fitted on ultra-efficient aircraft and to ensure that these platforms are compatible with 100% sustainable aviation fuels (SAF). Safran also targets to reduce 42.5% of CO2 emissions per passenger kilometer by 2035 (vs 2018). Lastly, Safran has also set targets for Scope 1 and Scope 2 emissions which covers the entire value chain of its products.

A bird's-eye view on sustainability

The Innovation, Technology & Climate Committee is responsible for overseeing the climate change strategy and action plan. As sustainability practices are incor-

porated into the Health Safety and Environment (HSE) roadmap, all employees are educated on sustainable practices through routine HSE training. Internal on-line training courses dedicated to sustainability are rolled out to all employees.

Safran organizes an annual collaborative innovation competition - the Safran Innovation Awards - which is open to all its employees worldwide.

INCORPORATING TECHNOLOGY INTO REDUCING PRODUCT EMISSIONS

Within Safran's technological roadmap, there are 3 key priorities to target product emissions. Firstly, Safran is working on ultra-efficient propulsion (engines) to achieve 30% less fuel consumption compared with the current engines in service. Secondly, Safran is actively promoting the use of Sustainable Aviation Fuels (SAF) and working to ensure future engines are compatible with 100% SAF. Safran is also working on a hydrogen propulsion chain. Lastly, Safran is working on an electric and hybrid propulsion system for short-range travel.

All Safran engines are already certified to operate with drop-in SAF up to 50% which represents an immediate reduction in carbon footprint when we switch to SAF.

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Safran has also participated in several burn tests using 100% sustainable aviation fuels (H225 helicopter with the Makila 2 engine, A319neo with the LEAP-1A engine as part of the VOLCAN project, commercial flight of a Boeing 737 MAX equipped with LEAP-1B engines). The target is to lift the technical obstacles to enable incorporation of drop-in 100% SAF in the near future.

WORKING WITH SUPPLIERS

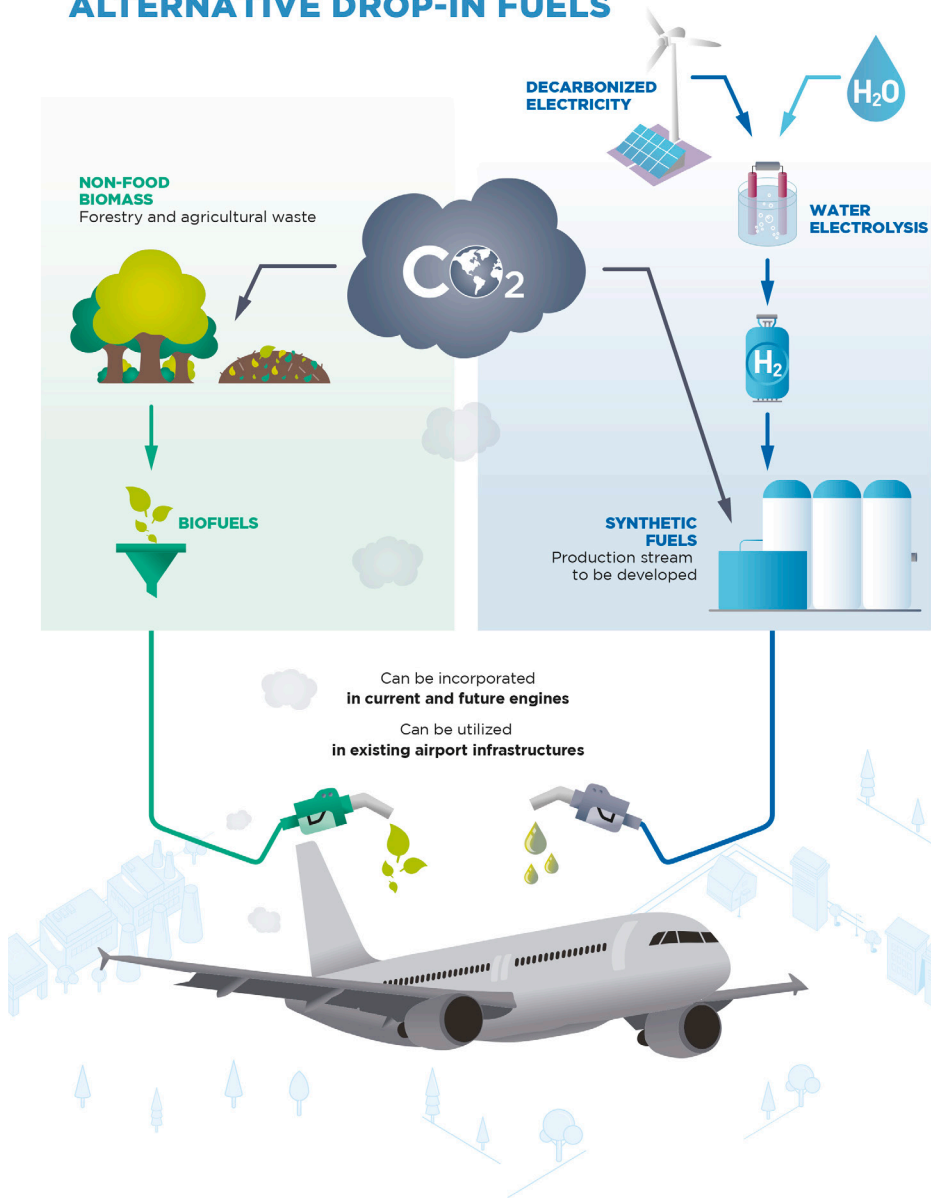
Safran is working to bring suppliers on board with a decarbonization process and aims to mobilize its 400 main suppliers on meeting the commitments under the Paris Agreement by 2025. Safran is attempting to improve the determination of emissions from its purchases and to set supplier CO2 maturity requirements accordingly.

AVIATION INITIATIVES IN ASEAN AND SINGAPORE

Safran Singapore focuses on reducing emissions coming from its facilities. As an example, in Singapore, it has already installed solar panels in 3 of Singapore’s sites. Additionally, it wishes to work with partners to advance the use of sustainable aviation fuels (SAF) up to 100% in Asia.

Safran has taken the commitment to contribute to worldwide efforts to comply with the Paris Agreement to limit mean surface temperature warming to below 2°C, and preferably 1.5°C, by the end of the century. These commitments and efforts are aligned with the pillar of “Energy Reset” within the SG Green Plan.

ALTERNATIVE DROP-IN FUELS



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