

China Airlines

Corporate Sustainable Aviation Fuel (SAF) Program



What is Sustainable Aviation Fuel?



Sustainable Aviation Fuel, SAF

- SAF is a type of aviation fuel made from **non-fossil fuel** feedstock, and it must comply with both international sustainability standards and aviation fuel standards. SAF is a key energy source for the aviation industry to achieve the net-zero carbon emissions target by 2050.
- Currently, SAF feedstocks are diverse. The International Civil Aviation Organization (ICAO) has established regulations that SAF production and usage must **adhere to international sustainability standards (e.g., ISCC, RSB)**. Additionally, SAF must not compete with food crops or lead to environmental degradation and social issues, and it must comply with ESG-related sustainable development aspects.
 - SAF must also **meet stringent aviation fuel certification standards (such as ASTM D7566 and D1655)** to ensure that these alternative aviation fuel products are safe for flight, transport, and storage.



Is the Use of SAF Environmentally Friendly?



Reducing Carbon Emissions

→ Compared to conventional fossil fuels, SAF can effectively reduce life cycle carbon dioxide emissions by more than 80%. The International Air Transport Association (IATA) anticipates that by 2050, SAF could contribute to over 65% of the aviation industry's total carbon reduction.

Mitigating Environmental Issues

→ Due to the diverse sources of SAF, ranging from cooking oil, plant oils, municipal waste, waste gases, and agricultural residues, it addresses waste disposal and waste oil management issues, thus promoting a circular economy.



Reducing Air Pollution

→ Research by NASA indicates that SAF, due to its extremely low sulfur content, can significantly reduce air pollution, making it a more environmentally friendly option.



Current Status of SAF Development



→ SAF plays a crucial role in reducing carbon emissions in the aviation industry and is a key issue for energy security and low-carbon transportation supply chains as countries strive to meet their net-zero carbon targets.

- Since 2011, 11 approved conversion processes have passed rigorous certification standards, and this number continues to grow.
- Globally, over 50 airlines have used SAF on more than 720,000 commercial passenger and cargo flights, and more than 120 airports now distributing SAF. The continuous increase in these figures demonstrates the safety, feasibility, and promising future of SAF.



Source: ICAO SAF official [website](#), July 2024



CAL Carbon Reduction Targets



→ In response to international carbon reduction trends, CAL has aligned with the International Air Transport Association (IATA) carbon reduction strategy and has formulated a 2050 net-zero strategy and roadmap. We have set specific targets for the use of SAF:

- CAL has committed to achieving net-zero carbon emissions by 2050.

- SAF usage targets:

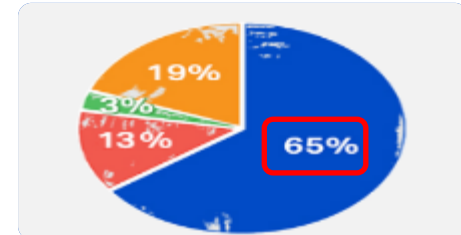
 - 2% by 2025

 - 5% by 2030

 - 40% by 2040

 - 65% by 2050

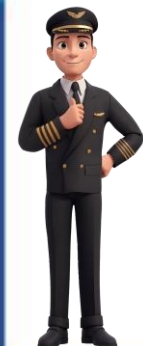
IATA Net-Zero Pathway Strategy



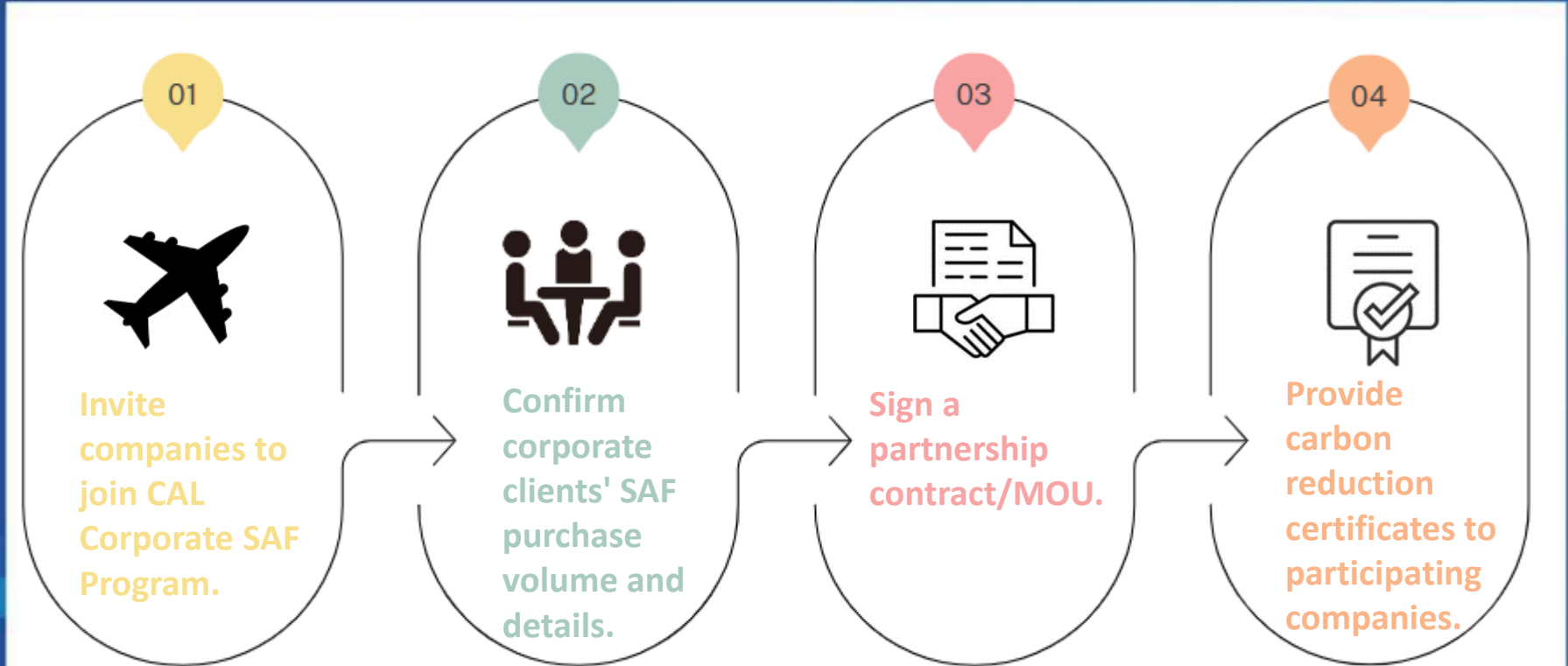
- 65% Sustainable Aviation Fuel (SAF)
- 13% New technology, electric and hydrogen
- 3% Infrastructure and operational efficiencies
- 19% Offsets and carbon capture



Concern for Climate Change



CAL Corporate SAF Program



Benefits for Corporate Clients Joining the CAL Corporate SAF Program

1



Significantly reduce Scope 3 carbon emissions from business travel and supply chain transport.

2



Enhance the company's international ESG ratings (e.g., SBTi, DJSI, CDP) and demonstrate operational performance

3



Become an industry best practice and achieve cross-industry carbon reduction and sustainability goals.



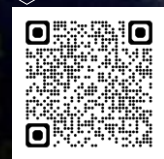
We sincerely invite corporate clients to join us in promoting greener, more sustainable air travel. If you're interested in our **Corporate SAF Program**, please reach out to our corporate sales representative.

We look forward to working together towards sustainable, low-carbon transportation.

邁向卓越 飛向美好永續的願景

Note: This program is currently available only to corporate clients partnered with China Airlines. Non-corporate customers interested in voluntary carbon offsetting are welcome to use our ECO Travel Carbon Offset Platform.

CAL ECO TRAVEL
& SAF Program



CAL CSR

