



10 years working on operational and environmental efficiency

¿What have we done so far?



Improvements on fuel efficiency



Noise reduction



Circular economy and better use of resources

2012



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Launch of CO2 emissions measurement



2013



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First A320 equipped with sharklets to improve fuel efficiency

These devices allow fuel efficiency to be improved by up to 4% per flight compared to the previous model (according to manufacturer).

2015



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First installation of lightweight “slimline” seats.

One of the most visible parts of the project was replacing the seats with a more modern and lighter version with an estimated saving up to 45kg of CO2 emissions per flight.



2018



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First A320neo

The most sophisticated and efficient version of this Airbus model allows reducing CO2 emissions by 18% compared to the previous model (according to manufacturer).



2019



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Launch of the Electronic Flight Bag (EFB) project

Reduction of 75kg of paper per aircraft and flight, estimating a saving of 1,000 Tons of fuel and over 3,000 Tons of CO2 emission per year.



2020



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IATA Environmental Certificate IEnvA 1

Vueling was one of eight Airlines worldwide to achieve this recognition in 2030.

**Greennova Foundation**

Agreement with Greennova foundation to collaborate on CO2 capture research.





2021



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Plastic and paper elimination

Replacement of +7M of plastic items and +6M paper napkins per year. Reduction of 6.8 tons of plastic and 0.8 tons of paper in catering.

**Lightweight catering trolleys**

New light weight versions (-15kg/aircraft) reducing emissions by 3kg of CO2 per flight (aprox. 600Tn of CO2/year)



2022



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Recycling trolleys

New recycling trolleys to increase onboard waste recycling.

**Flight documentation digitalisation**

Vueling eliminated 100% of paper in flight documentation by digitizing the entire process. One ton of printed paper avoided equals about 744 tons of CO2 emissions per year.

**Reuse of canteen oil to produce biofuel**

Together with Mediterránea, used cooking oil from the canteen is sent to two refineries in Spain and Portugal to produce biofuel.

**New offices in October**

A new building located in Viladecans, with a new efficient heating system rainwater reuse, lower electricity consumption for lighting and solar control. BREEAM certified.







2023



Wheel Tug



Agreement with Wheel Tug to develop an electric taxiing system for aircraft allowing its use on the ground and reducing emissions and noise.

Pilot App



Introduction of *Honeywell Pilot App*. This application provides tracking of CO2 emissions saved by pilots, as well as statistical data on fuel consumption and Vueling operations to support decision making during flight dispatch.

Wind updates during descent



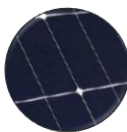
Using in-flight wind data updates, with more precise meteorological information, enables more efficient and descent trajectories.

Supply of Voluntary Sustainable Aviation Fuel



Voluntary supply of 1,285 Tons of SAF, multiplying by 4.3 the sustainable fuel used in 2022

2024



Solar panels installation in our HQ



Installation of solar panels de able to supply part of the electricity required in our offices.

New integral waste management agreement



Awarding of this service to the company *Marrones*, a partner that guarantees environmental commitment in management under principles of ecology and efficiency.

Renewal of IATA IEnvA Stage 2 Environmental Certificate



Renewal of the IATA Environmental Assessment (IEnvA) Stage 2 certification, endorsing our commitment to environmental sustainability.

IATA Certification Against Illegal Wildlife Trade



Achievement of the IATA certification against the illegal trade of flora and fauna (*Illegal Wildlife Trade Assessment*), making us one of only 10 airlines worldwide to obtain it.

Aeon Blue



Collaboration agreement to research the production of synthetic sustainable aviation fuels (eSAF) through CO<sub>2</sub> capture and seawater electrolysis.

Supply of Voluntary Sustainable Aviation Fuel (SAF)



Voluntary supply of 12,779 tons of SAF, multiplying by ten the sustainable fuel used in 2023. This volume represents 1.4% of the total, allowing us to get ahead of the 2% mandate for 2025. Aplicación para carsharing

Carsharing Application



Development of a carsharing application to facilitate carpooling among our employees for commuting to work.