

Climate protection

LUFTHANSA INVESTS BILLIONS

By 2030, the Lufthansa Group wants to halve its net CO₂ emissions compared to 2019. By 2050, we want to achieve carbon neutrality. These ambitious goals are underpinned by multibillion-dollar investments in new aircraft models and sustainable fuels.

Each year, we invest more than €2.5 billion in new aircraft, which means a new aircraft joins our fleet roughly every ten days. By 2030, the Lufthansa Group will have introduced more than 200 state-of-the-art and efficient aircraft to its fleet. This investment is a significant step in climate protection as it will enable us to phase out older, fuel-intensive aircraft. Modern planes, for instance, consume up to 30% less fuel per passenger compared to their predecessors, resulting in reduced CO₂ emissions.

For decades, the Lufthansa Group has been committed to developing the most efficient aircraft possible, consistently being the first to integrate groundbreaking models such as the Airbus A320neo in 2016.

Promoting sustainable fuels

Sustainable Aviation Fuels (SAF) are another pivotal aspect on the way to making air travel as climate-friendly as possible. As one of the world's largest buyers of SAF from biogenic residues, the Lufthansa Group is leading the way in developing the next generation of SAF—power-to-liquid (PtL) aviation fuels derived from electricity, water, and CO₂. A current example: In mid-October, Lufthansa, Airbus, MTU, the German

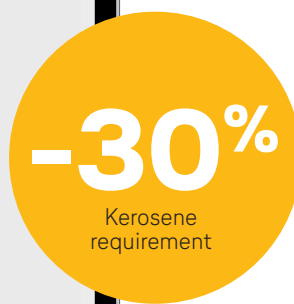
Overview: Climate protection in aviation

Facts, goals, instruments: In October 2023, the Federal Association of the German Air Transport Industry (BDL) published a comprehensive pamphlet on the topic of climate protection. A separate chapter deals with taxation and compares the burdens of air and rail travel.

Aerospace Center and Munich Airport agreed to join forces for a pioneering technology cooperation. The primary focus of the research project includes:

- How can the market launch and industrial scaling of PtL aviation fuels be accelerated?
- What impact do PtL fuels have on value chains and local air quality?
- To what extent can PtL fuels also have a positive impact on non-CO₂ emissions?

Investments coupled with the incorporation of the most efficient aircraft, as well as research and development efforts serve as the key for the aviation industry's climate-friendly transformation. The Lufthansa Group stands as a global pioneer in this transformative journey.



Fleet modernization = most important climate protection measure

On average, modern aircraft consume up to 30 percent less fuel than their predecessors.