



Green Flying:
Reduction of specific CO₂ emissions.

Optimum use: B777F exceeds expectations.

Every airline produces CO₂ emissions. However, we at Lufthansa Cargo are aware of our responsibility to the environment and own up to it every day. Our ambitious environmental target: By 2020, we aim to reduce our specific CO₂ emissions by 25 percent compared to 2005.

Putting the B777F into service is an important step in this direction. The world's largest twin-engine freighter features efficient engine technology, state-of-the-art materials and advanced wing design.

In the beginning of 2015, the fifth freighter of this type was delivered to Lufthansa Cargo. Already the first four B777Fs that were in operation in 2014, are proof that the freighter with today's best environmental performance, has exceeded all expectations.

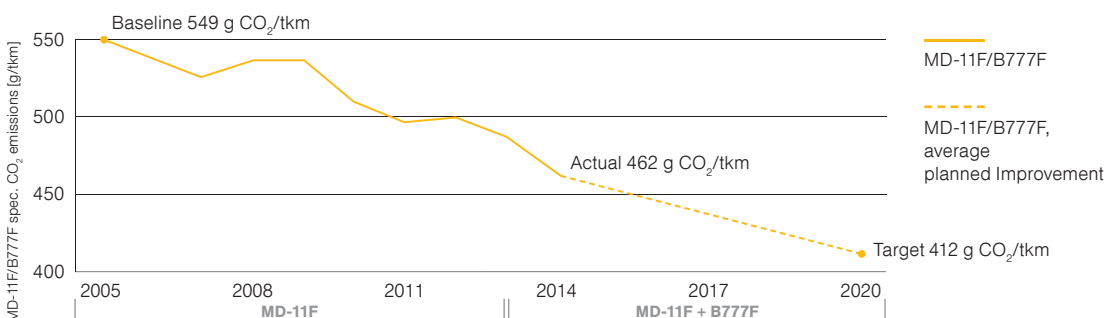
Thanks to optimal utilization of the aircraft in our network and high payload factors, our expectations in regards to specific emissions have been exceeded. With an estimated 400 g CO₂/tkm for 2014, the annual average of the four B777Fs amounted to just 374 g CO₂/tkm. This means that the B777F produces roughly 23 percent less CO₂ per ton transported than the MD-11F.

The Triple Seven's extremely long range of nearly 9,000 km is capable of supporting this positive development. Although an aircraft needs to transport more fuel on direct flights, it can operate more efficiently, since every stop over also costs kerosene and time.

Positive results are also apparent when it comes to noise emissions. The B777F is the quietest freighter in its class and meets the most stringent current noise standards of the International Civil Aviation Organization. It is even in line with the stricter noise standards for newly registered aircraft that come into effect in 2017. As a result, the use of the B777F offers maximum access to airports with strict noise regulations while also bringing significant relief to the people in the vicinity.

Bettina Jansen, Head of Environmental Management, emphasizes: "Our commitment is paying off: Thanks to Lufthansa Cargo's wide range of operating and technical measures, and especially the company's investments in new aircraft, we have already achieved 15.8 percentage points of our 25 percent target. It is an achievement that we are proud of and that motivates us to keep making improvements."

Target 2020: Reduction of the specific CO₂-emissions by 25 % (baseline 2005) – Status 2014 : - 15.8 %



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