

SUSTAINABILITY

Cargolux is committed to environmentally sound transport.

We fly the most energy-efficient all cargo aircraft available today and will be the first to fly Boeing's next-generation B747-8F in 2009.

In doing so, we provide the best available air freight service to shippers and forwarders who seek to lower their impact on the environment.

What Makes Cargolux Stand out?

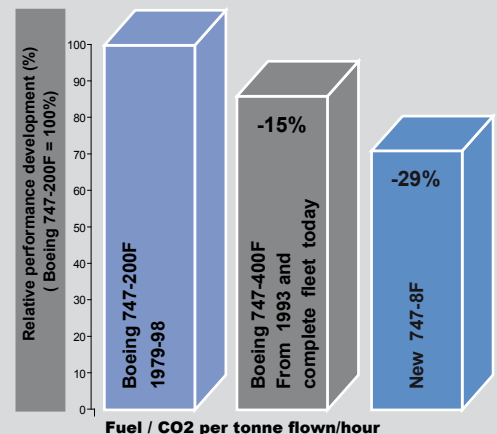
Cargolux has, since its creation, sought to operate the most energy-efficient and thereby environment friendly aircraft type available. We became the first cargo airline to operate the Boeing 747-400F in 1993 and are still today one of the few airlines worldwide that operates a single fleet of this aircraft type.

From an environmental standpoint, this aircraft is best-in-class among long-range wide-body freighters for three reasons:

- 1) **The 747-400F uses less fuel:** Cargolux's freighters use 15% less fuel per tonne-km than its predecessor, the B747-200F, which is still widely operated throughout the world.
- 2) **It emits less CO₂:** this lower fuel burn results in an equivalent 15% reduction in CO₂ emissions.
- 3) **It is much quieter:** local communities benefit greatly from a noise footprint reduced by 50% at 85 dBA compared to the 747-200F.



Aircraft Technology Improvements



Typical mission rules – 3,000 nmi trip – max revenue payload – Boeing 747-8F based on design performance data

First to Fly the 747-8F

From September 2009, Cargolux will set a new standard in environment friendly air transportation by being the first airline worldwide to operate the B747-8F powered by the next-generation General Electric GENx engines. The fourth generation 747 benefits from a further 17% reduction in fuel burn and CO₂ emissions, and a noise footprint that is reduced by another third compared to the 747-400F, at 85dBA.

With the B747-8F, Cargolux's flights will be quieter than ever.

Corporate Social Responsibility

New, efficient aircraft types are important to help fulfill Cargolux' business objective: To connect markets throughout the world while behaving as a good corporate citizen, by bringing social and economic progress to all parts of the world.

Today, up to 34% of all goods are transported by air (measured by value), bringing economic growth and prosperity to many markets. Air transport notably allows countries in South America, Central Africa or South-East Asia, to make use of their natural fertile climates to export high-value crops and foodstuffs, such as flowers, pineapples, fish and meat.

Global Family

By serving a global market Cargolux has naturally developed into a global family. We currently employ members of 50 different nationalities worldwide and as many as 30 (including 14 non-EU) nationalities at our head-office in Luxembourg.

Committed Partner

Cargolux is a signatory to the Luxembourg Charter of Social Responsibility as well as the UN Global Compact and is conducting its business in alignment with those principles. These include striving to promote fair trading conditions, respect for human beings, and using the best available technologies to minimize our impact on the environment. Cargolux routinely supports humanitarian activities by donating spare capacity on our aircraft for the transportation of emergency relief goods.

Climate Change

Contrary to a widespread belief, aviation contributes only a small fraction of man-made CO₂ emissions, as little as 2% according to studies commissioned by the United Nations (IPCC) and the UK government (the 2006 Stern Report). In comparison, road traffic generates 11%, and energy and heat production are responsible for as much as 41% of all man-made CO₂.

Cargolux shares the goal of reducing CO₂ and other greenhouse gas emissions, as well as noise. This is why we continuously cooperate with Boeing, General Electric, Rolls-Royce and Air Traffic Management authorities, to implement new technologies and operating procedures that aim to reduce fuel burn and noise generation.

Sensible Flying Helps

Many operational measures are implemented by Cargolux today specifically to reduce fuel burn, resulting in a sizeable reduction of the company's overall CO₂ footprint with our existing aircraft fleet. They include:



- Variable Flight Speed: By adapting cruise speeds depending on aircraft weight and weather conditions, Cargolux aircraft save fuel with minimal impact on overall flight time.
- Continuous Descent Approach: Upon arrival at destination, the aircraft descends on a continuous slope from cruise altitude, rather than the traditional "stepped approach". The engines run at idle speed during most of the approach, which saves both time and fuel.

Policy Incentives

Several necessary government policies are being developed and once implemented, these will lead to even further aircraft CO₂ emissions reduction. These are welcome steps and Cargolux encourages governments to help speed-up the implementation of these important initiatives, such as:



- New, less complex air traffic management systems, such as the "European Single Sky" or the "US Next-Generation Air Traffic Management system" These would lead to a 12% reduction in CO₂ emissions as a result of optimized aircraft routing.
- A new airport user charge system based on "CO₂ efficiency" rather than the current "weight of aircraft"-based charging scheme. This will strongly encourage airlines to follow Cargolux's lead and re-fleet to latest technology aircraft.

Building a sustainable air transport system is today a universally recognized necessity. Cargolux firmly believes that achieving this objective will require the collaboration of all partners in the transport chain, including airlines, aircraft and engine manufacturers and government authorities. Cargolux welcomes the positive momentum that has been initiated on all parts and looks forward to a productive collaboration that is already bearing its first fruit.

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