



**Innovation:**

Investment in short-, medium- and long-term innovation projects.

## Cargo Climate Information.

### Lufthansa Cargo relies on lightweight containers.

Decreasing weight on board our aircraft is key to cutting fuel consumption and the resulting CO<sub>2</sub> emissions. Because Lufthansa Cargo aims to keep this weight as low as possible, we are successively replacing our LD3 standard aluminum containers with lightweight containers. By mid 2012, over half of all LD3 containers used by Lufthansa Cargo were made of lightweight composite materials. Along with significant weight savings thanks to the materials' honeycomb structure, for example, the new containers ensure safe handling and require fewer repairs. This was demonstrated through extensive testing by Lufthansa Cargo.

At the present rate of nearly 35,000 lightweight container movements every month, a difference of 13 kilograms per container – compared to standard aluminum models – literally lightens the burden on our environment. In 2013 we will have finished replacing our entire LD3 aluminum container fleet of over 5,000 containers. This measure from our “Fuel Efficiency” project will then reduce our current CO<sub>2</sub> emissions by 6,800 tonnes annually. This corresponds to the emissions of 50 flights from Frankfurt to Sharjah with a MD-11.

The innovation project was also acknowledged by the internationally renowned environmental award “ÖkoGlobe” - Lufthansa Cargo has been awarded with a third place in the category “mobility provider and logistics structure”.

But we will not be resting on our success. Together with our partner Jettainer and several research institutes, we are already developing a second-generation lightweight container. Lightweight pallets are also a key technology topic. We expect a new product generation in this area as well – along with additional CO<sub>2</sub> savings.



(Source: Lufthansa Cargo)



(Source: cargocomposites)



**Lufthansa Cargo**

Networking the world.



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