



Eco-Pioneer of Transport and Logistics - guaranteeing **your long-term success**



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and analysis of
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Identification of areas
for improvement



Joint creation
of more environmentally friendly
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technical solutions

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We actively rise to the challenge of the ecological transition in our sector and believe in complete transparency of our results.



Initiatives & working groups



Greener delivery



ISO 14001 certification



Communication of results

INTRODUCTION

Our environmental strategy

As a leading transport company in our market, we aim to **become the ecological pioneer** of our business sector. Our priorities are **reduction of our emissions**, recycling of our waste and reduction of our water and energy consumption.

Together we are responsible for protecting the environment!

We have ambitious long-term objectives

CO₂

-30%

(g/tkm)

From 2006 to 2020

-50%

(g/tkm)

From 2006 to 2030

ENERGY

-18%

(kWh/m²)

From 2013 to 2020

RECYCLING
rate

60%

By 2020



Targets

WATER

-15%

(m³/pers.)

From 2013 to 2020



DB 2020⁺ is the Group's eco-friendly strategy.

Future is Here

Groups together the values and the culture of our company.

Green Road – effective, more environmentally friendly road freight

Our network



A FLEET OF RELIABLE AND MODERN VEHICLES

Our entire fleet of trucks consists of Euro 5 (23%) and Euro 6 (77%) class vehicles, as well as alternative energy vehicles: gas-powered and electric vehicles and cargo e-bikes. To go further, we invest in research and development in order to contribute to the emergence of innovative, less polluting solutions.



ECO-DRIVING TRAINING FOR OUR DRIVERS

The way we drive is one of the factors that impacts pollution levels. We provide **eco-driving training** for 30,000 internal and external drivers. Alongside that, we monitor individual fuel consumption.



ACCUMULATION OF LOADS AND JOURNEY OPTIMISATION

Within our pan-European network, transport is grouped and the **loading factor is optimised**. Thanks to our GPS vehicles and the "ELIOT" and "CADIS" on-board software in our vehicles, we optimise journeys, thus reducing our greenhouse gas emissions. This organisation model helps to save up to 30% CO₂.

"OBJECTIF CO₂" CHARTER – OUR COMMITMENT:

- Optimise **loading capacity** (volume and payload).
- Fit **100% of vehicles** with an **engine idle cut-off** system.
- Increase the use of **double decks** in trailers.
- Reinforce the **eco-driving** management system.



Did you know?

11.1%

of CO₂ emissions will be avoided between 2017 and 2020 for the domestic courier network in France.



Green Air – quick, more environmentally friendly air freight

Our network



PREFERRED CARRIERS

The close relationship we have with our preferred carriers and the annual control of our targets enable us to develop and implement measures for reducing CO₂ emissions. We measure, evaluate and rank our air partners each year based on three criteria (environmental performance, long-term performance and climate protection).



MORE EFFICIENT REACTORS

Modern and efficient reactors help to **reduce consumption by up to 25%** compared to that of today's average reactor.



OPTIMISED LANDING

In accordance with strict security regulations, pilots are authorised to take less fuel on board when operating short-haul flights. This makes aircraft lighter and reduces emissions.



CARGO PLANES: LESS POLLUTING

The use of cargo planes helps to significantly reduce CO₂ emissions from an average of 1,100 g of CO₂/tkm for a passenger aircraft to 500 g of CO₂/tkm for a cargo flight.

GOOD SKYBRIDGE PRACTICES

Speed and efficiency are ensured by intelligently **combining air freight and sea freight**. DB SCHENKER *skybridge* combines these two modes of transport and therefore **considerably reduces CO₂ emissions**.

Did you know?

Our **gateway concept via road for inland haulage** avoids short-haul flights, resulting in a **reduction of up to**

90% of CO₂ emissions



Green Ocean – quick, more environmentally friendly sea freight

Our network



COOPERATION AND CONTROL



The close relationship we have with our preferred carriers and the annual control of our targets enable us to develop and implement measures for reducing CO₂ emissions. We measure, evaluate and rank our sea partners each year based on three criteria (environmental performance, long-term performance and climate protection), the scoring of which is based on the evaluation of the **Clean Cargo Working Group (CCWG)**.



SPEED REDUCTION – "SLOW STEAMING"

By halving their speed, vessels consume only one tenth of the engine power and fuel.



HYDRODYNAMIC MODIFICATIONS

Hydrodynamic modifications to the design (smaller propellers or optimisation of the bulbous bow) help to reduce fuel consumption further.

Cleaner global sea freight in 2020

The new International Maritime Organization (IMO) "**Low Sulphur**" regulation will enter into force on 1 January 2020 and will force all shipping companies to reduce their sulphur emissions by 85% and therefore favour the use of a fuel oil at 0.5%. **DB Schenker is going one step further with its new service:**

DB Schenker Low Sulphur Program – be a pioneer and start the sulphur reduction initiative to reach healthy air

Many ports do not provide any standards for sulphur emissions which are very harmful to our health. In order to reach better air quality in ports DB Schenker has launched a project that allows to "clean" TEUs transported on their vessels in non-regulated ports.

This is how it works:

- Pay 3 USD per container
- Get your certification
- Safe the environment

* IMO is setting global standards to reduce sulfur content to 0.5% 2020-2025 globally. This project reduces sulfur content to 0.1% from today.

Green Rail/Barge – environmentally friendly rail and river freight

Our network



Rail and barge freight guarantee the lowest rate of emissions. The use of combined transport is a good way of reducing your carbon footprint on your journeys.



ENVIRONMENTALLY FRIENDLY RAIL-ROAD COMBINED TRANSPORT

The transport of semi-trailers or containers by Rail-Road helps to significantly reduce environmental impact and the saturation of the main European road network routes.



THE FRANCE-CHINA CORRIDOR

We offer two rail terminals in Germany, in Hamburg and Duisburg, to connect Western Europe with China via an optimum rail service.

Our many weekly departures guarantee reliable, quick, regular and environmentally friendly transport between France and the main economic areas of China.



BARGES

We offer the use of river transport as an alternative to road transport. You can therefore choose to transport your goods between the **Gennevilliers, Le Havre and Roissy hubs via the Seine**. This intermediate mode of transport has high loading capacity and bypasses saturation points, while boasting low emissions of pollutants and CO₂.



Did you know?

Rail transport helps to **reduce emissions by up to**

75% compared to road transport

ENVIRONMENTALLY FRIENDLY RAIL PRACTICES

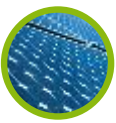
Each day, **DB Cargo** relieves Europe's roads of 98,000 trucks, which placed end to end would reach from Hamburg to Rome.

Green Terminals – Our green buildings, saving resources

Our network



We optimise the energy consumption of our sites through measures taken from the construction stage. We also monitor our consumption closely and implement an environmental progress plan.



SUSTAINABLE ENERGY SOURCES

In France, on our most recent buildings, we favour the consumption of electricity from renewable sources: some of our sites have **photovoltaic panels** and **solar panels**.



TECHNOLOGICAL EFFICIENCY

We reduce emissions by using electric floor conveyors and forklift trucks.



INTEGRATED LIGHTING CONCEPTS

Wherever possible, we use sources of **natural light** and **smart lighting management**. We are also continuing our programme to replace high-consumption lighting, which will enable us to install **LED lighting** on 50% of our sites by 2023.



CENTRALISED IT INFRASTRUCTURES

Our operational IT databases are centralised globally to avoid multiplication of data locally and therefore reduce CO₂ emissions.

PROTECTION OF BIODIVERSITY

We deploy actions in favour of **biodiversity** with the introduction of **eco-grazing** in some of our branches to replace manual mowing and we also host **beehives**.



ECO-CONSULTING: reduce and offset your CO₂ emissions

Our expertise


Calculation and reporting
of emissions


Identification of areas
for improvement


Joint creation
of more environmentally friendly
transport plans and
technical solutions

ACHIEVE YOUR OBJECTIVES

With the help of our experts, find ways
to reduce your transport emissions.



REDUCE – OFFSET

With our own tools, we calculate the **emissions** from the transport of your shipments. Together, we identify potential for **reducing emissions** and we develop sustainable **transport concepts**.



REDUCE – OFFSET

Thanks to **climate certificates**, you can offset unavoidable emissions by financing a sustainable and certified project. Discover the projects offered by our partner **atmosfair**.

nachdenken • klimabewusst reisen



CARBON REPORT: we calculate your balance using our tools

Our expertise


Calculation and reporting
of emissions


Identification of areas
for improvement


Joint creation
of more environmentally friendly
transport plans and
technical solutions

Eco-transparency thanks to our effective tools and our analyses.

Torch

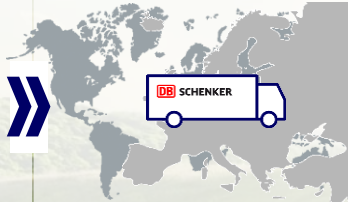
Building emissions



- Monitoring and control of the energy consumption of the 2,000 sites worldwide, as well as the activities related to operation and administration.

MySchenkerLand

Road emissions



- Calculation of emissions from dispatch through to delivery in tonnes of CO₂ e emitted/tonnes transported
- Actual tracking base
- Detailed GHG review per shipment
- All of our calculations are done in accordance with European standard EN 16258

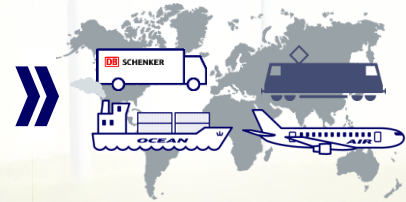
SBI (CIS)

Air and Sea emissions



EcoTransIT World

Emissions calculator



- DB Schenker founding member
- Multimodal tool
- Calculation of the emissions of a particular journey
- Comparison of emissions according to different scenarios



Carbon
balance

Your Personalised GHG Report

We can provide a **carbon report for your transport** on request. The GHG report indicates the greenhouse gas emissions and the total tonnage transported over the chosen period. We can also configure regular reports on your emissions.

Indicators provided:

Air and Sea: CO₂ Port-to-Port [t], CO₂ total (incl. Pre-/on-c.) [t], CO₂ e Port-to-Port [t]; CO₂ e total (incl. Pre-/on-c.) [t].

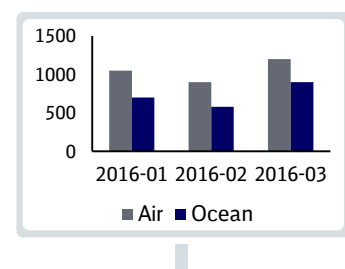
Road: CO₂ Tank-to-Wheel (kg), CO₂ Well-to-Wheel (kg), CO₂ e (kg), HC (kg), NO_x (kg), PM (kg), SO₂ (kg).



Reporting
e-Service

Your online Carbon Dashboard

Thanks to our **Carbon Dashboard** e-Service, you can produce your own emissions statistics. The emissions, the emission factors and the tonne-kilometres of your air and sea shipments are displayed online on a quarterly basis.



CARBON BALANCE: Analysis of your transport plans

Our expertise

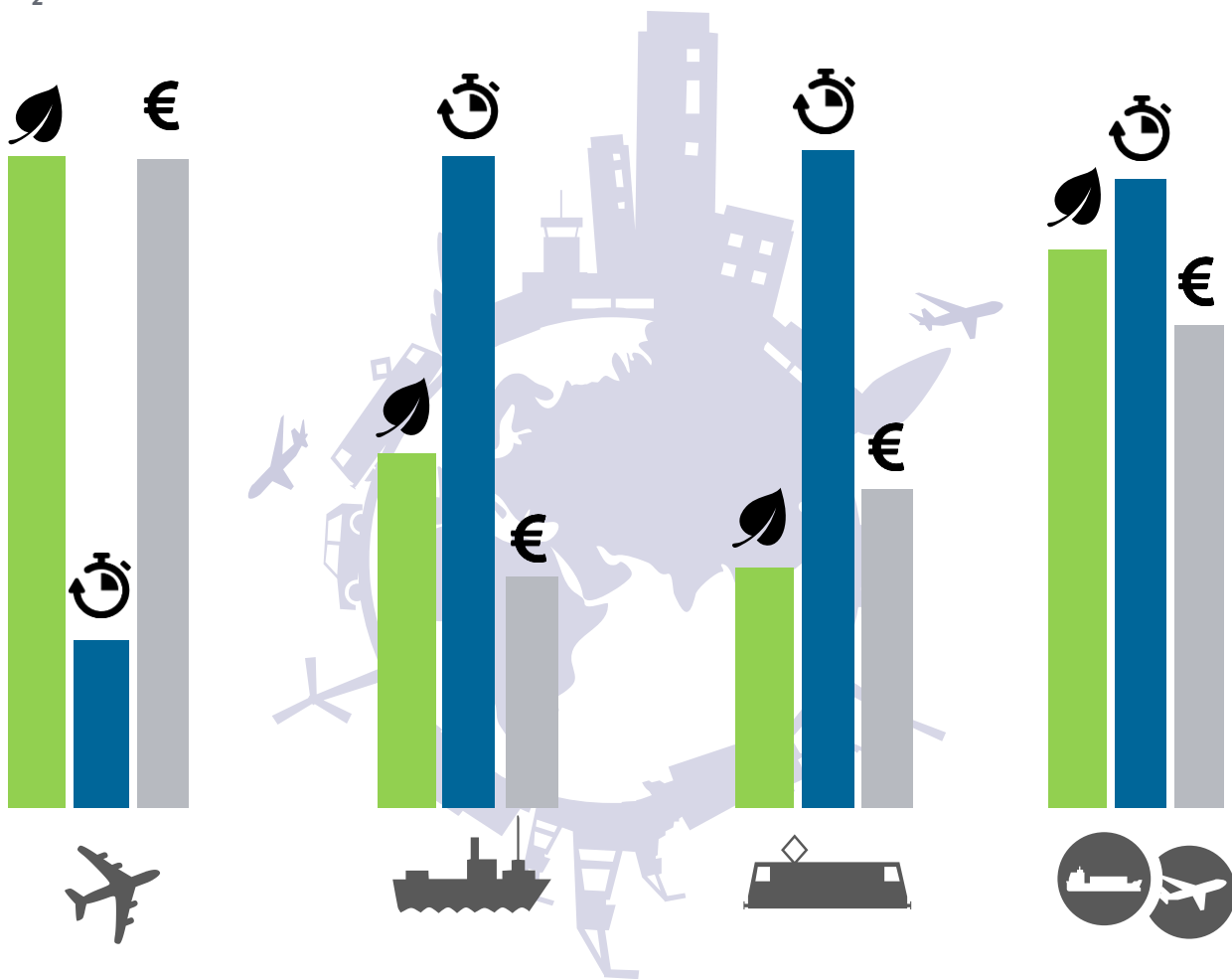

Calculation and reporting
of emissions


Identification of areas
for improvement


Joint creation
of more environmentally friendly
transport plans and
technical solutions

ITINERARY: SHANGHAI – PARIS CDG

Using our measuring and monitoring tools and the knowledge of the DB Schenker network, we can help you to determine the most relevant transport plan, taking into account **lead time, cost and CO₂ emissions**.



ENVIRONMENTAL REVIEW

Track changes to your CO₂ consumption with **environmental KPIs**.
We offer regular reviews to identify the areas where you could improve.

We are actively committed to...

Our initiatives



Signatory of the United Nations Global Compact since 15 April 2009



The **UN Global Compact** is an agreement between companies and the United Nations. Our current Sustainable Development **Objectives** relate to:



Active member of professional initiatives and consortia



EcoTransIT World calculates the environmental impact of different transport chains around the world.



Clean Cargo Working Group, a global player in the maritime supply chain.



Global Logistics Emission Council, network that aims to harmonise emissions calculation methods.

Signatory of the "Objectif CO₂" Programme



This French programme, organised by the Ministry for the Ecological and Inclusive Transition of France, the French Transport Ministry and ADEME, helps to reduce your fuel consumption and GHG emissions by **putting in place an action plan**.

Recognised actions in favour of sustainable development



The 2017 survey of the **Carbon Disclosure Project (CDP)** awarded Deutsche Bahn the **top score of A**, topping the international rankings.



EcoVadis rates the CSR of companies. DB Schenker obtained **Gold certification** in November 2017.

Development of sustainable urban delivery solutions

Our initiatives



Initiatives & working groups



Greener delivery



ISO 14001



Communication of results

Cargo e-bikes

In city centres, remote storage spaces are used to deliver any size of package at any time with no access constraints or timetables, **up to 420 kg per shipment**.

We deliver your pallets using cargo e-bikes in the following cities: Le Mans, Rennes, Amiens, St Malo, Nantes, Angers, Lille, Bordeaux and Strasbourg.



Electric vehicles

In early 2019, we will have 100% electric eCanter vehicles. With a **driving range of around 120 km**, they allow us to deliver in city centres while reducing CO₂ emissions, particles and noise.



Gas vehicles

Daily delivery rounds are done using natural gas vehicles. NGVs have the following advantages: **significantly fewer particles discharged**, reliable and available fuel and a reduction in noise pollution.



Hybrid vehicles

Use of hybrid vehicles for city-centre deliveries. Using a hybrid vehicle reduces consumption by up to 50%, meaning a **significant reduction in CO₂ emissions** into the atmosphere.



ISO 14001:2015: A certified environmental approach

Our initiatives



Initiatives & working groups



Greener delivery



ISO 14001



Communication of results



ISO 14001 and DB Schenker Monde

DB Schenker has introduced a Group environmental procedure on the **environmental management system** based on the principles of standard **ISO 14001**.

The most recognised environmental standard: 250,000 certifications in 160 countries currently.

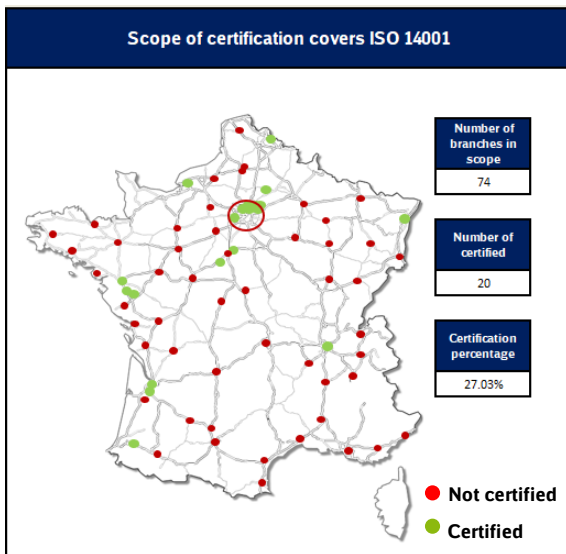
More than 468 Schenker sites certified worldwide



ISO 14001 and Schenker France

In France:

50% of our activity is certified, i.e. more than 25% of our sites. We have signed up to a certification approach for 100% of our sites by 2020.



The benefits of the standard



We are committed to full transparency of our key figures

Our initiatives



Initiatives & working groups



Greener delivery



ISO 14001



Communication of results



DB Schenker 2017 Carbon Footprint

Mode of Transport	Tonnes (M t)	Tonne-kilometres (M tkm)	CO ₂ e emissions WTW ¹⁾ total (M t)	Specific WTW ¹⁾ (g CO ₂ e / tkm)
Global Road Freight	58.2	42.192	3.9	92.3
<i>Including own fleet</i>	5.4	3.915	0.36	92.3
Global Sea Freight	22.6	308.760	2.1	6.8
<i>+ Inland pre- and post-shipment haulage</i>		5.640	0.21	37.2
Global Air Freight	1.1	9.271	6.73	725.4
<i>+ Inland pre- and post-shipment haulage</i>		170	0.03	195.8
European Rail Freight	5.7	3.444	0.07	20.6

¹⁾ WTW = well-to-wheel = the emissions from the whole fuel cycle from extraction to combustion.



	Total surface area (M.m ²)	Employees	Electricity (Gwh)	Heating (Gwh)	Heating kwh/m ²	CO ₂ e (tonnes) energy	Water (m ³)	Recycling rate ²⁾
Buildings	8.4	74.158	352.4	154.2	18.5	ca. 450.000	780.000	49%

²⁾ Without thermal recycling

The DB Schenker carbon footprint is calculated in accordance with **European standard EN 16258** and in line with the **Kyoto Protocol**.

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