DB SCHENKER

Carbon Dashboard Air-Ocean

Monthly Key Figures
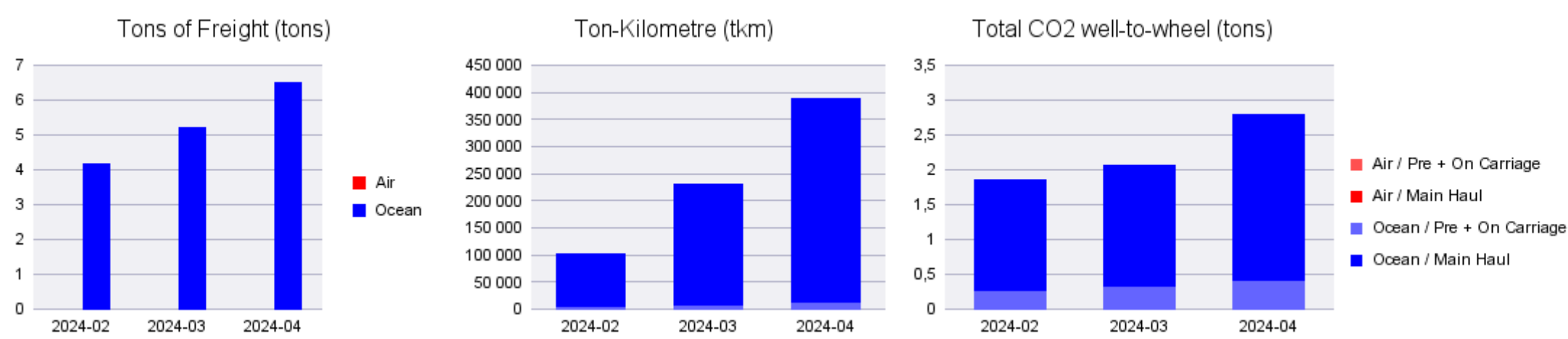
Carbon Emissions calculated per Mode of Transport (tons WTW)

You see in the left table your Air and in the right table your Ocean transports' total carbon emissions well-to-wheel including pre- and on-carriage as performed by DB Schenker Logistics. The middle table show your tons of freight in air and ocean.
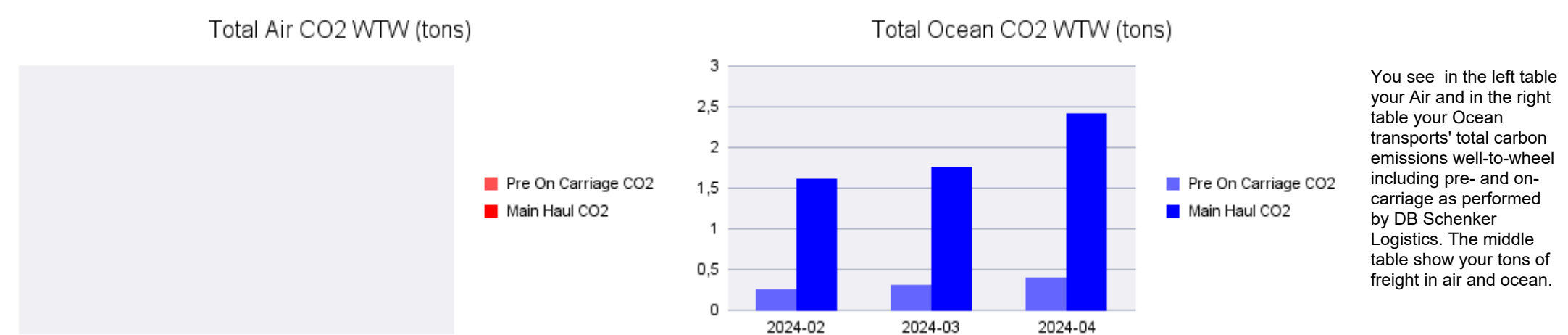
## Customer Efficiency (tons CO2e per ton of freight)

The bars indicate the average tons of carbon emissions per ton of freight transported in air and ocean. The Modal Mix bar indicates an all mode weighted average of carbon emissions per ton of freight and serves as an indicator of your products' average carbon intensity.
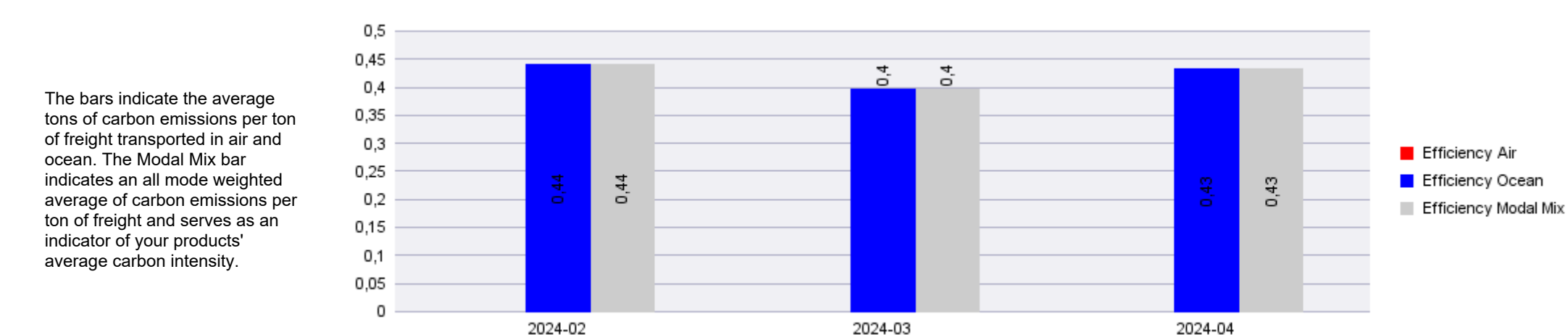
Emission Factor (g CO2e per tkm)

The Emission Factor (g CO2/tkm) indicates the carbon intensity per tkm in Air and Ocean transports as an indicator of transport energy efficiency. The Modal Mix bar indicates your modal share efficiency.
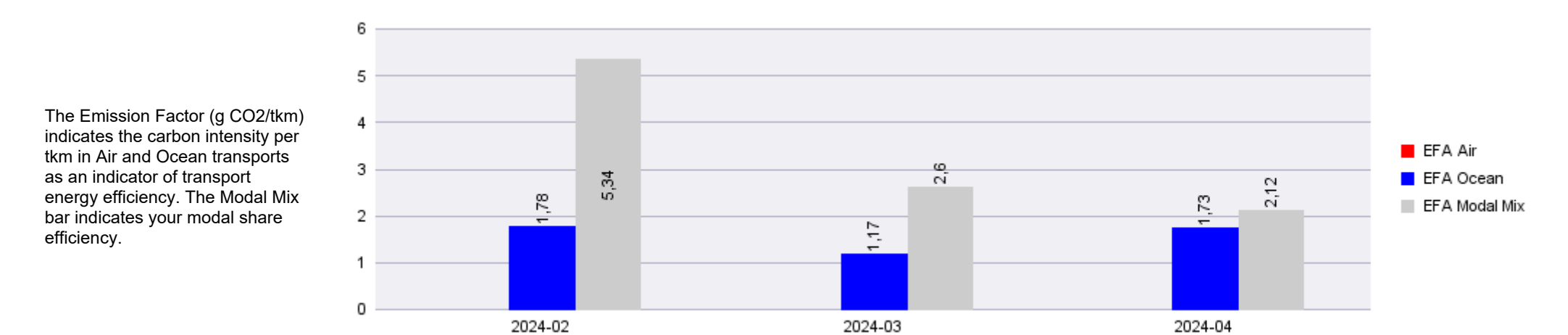
Basic calculation rules and data sources:

Air freight: EN 16258, aircraft and routing (OAG) based energy analysis, data source: EU Small Emitters Tool; see more details in the EcoTransIT Methodology Report at: http://www.ecotransit.org/basis.en.html

Ocean freight: EN 16258, CCWG Methodology: 25 tradelane-specific, SCAC code based emission factors (annually updated), EcoTransIT Methodology for all non-CCWG shipments; pre- and on-carriage based on country-specific assumed road:rail shares

Road freight: EN 16258, routing according to Schenker Scheduler, country specific CoDi and linehaul fleet and filling rate (annually updated), database HBEFA 3.2
Rail freight: European average emission factor according to EcoTransIT World

limitations:
* Air freight data are solely based on database default data as long as there are no consistently caluclated carrier data available
* Road freight: There is no difference in the calculation between FTL and LTL transports. In case of significant deviations from the Schenker cargo mix/filling rate, an adjustment can be made.
* All data are shipment based (STT number), irrespective of Incoterms and paying party.

For more details please contact: Key Account Manager

Abbreviations & links:

CCWG	Clean Cargo Working Group, see: http://greenfreightandlogistics.org/programs/clean-cargo-working-group/
CoDi	Collection and distribution transports
EcoTransIT World	Transport emission calculator, co-developed by DB Schenker Logistics, publicly available at: www.ecotransit.org
EFA	Emission Factor = per ton and per km carbon emission
EN16258	European Standard for Carbon Emission Calculation, see: http://www.en-standard.eu/csn-en-16258-methodology-for-calculation-and-declaration-of-energy-consumption-and-ghg-emissions-of-transport-services-freight-and-passengers/
FTL	Full truck load
HBEFA	Handbook for Emission Factors in Heavy Duty Transports (Trucks)
LTL	Less than (full) truck load
OAG	Air transport timetables, see http://www.oagtimetables.com/choose.htm
SCAC code	Standard Carrier Alpha Code, see: http://www.scaccodelist.com/
tkm	Ton-kilometre, normalizer unit for energy consumption in shared transports
TTW	Tank-to-wheel = direct emissions when burning the fuel
WTW	Well-to-wheel = direct + indirect emissions, the latter originating from fuel production and transport