



March 2023

## **Disclaimer**

### **Calculation of CO2 emissions on sea freight**

ALPI Air & Sea A/S can, on request, prepare combined CO2 reports on sea freight for customers for a given period. Transport to and from ports is included in the calculation if ALPI has been responsible for this part of the transport. The calculation is carried out in our own internal CO2 calculator, which was launched on 1 January 2023.

The calculation is made through Searoute's API with internal data from ALPI regarding the order. The CO2 calculator uses modeled data, including information from the specific vessel if available. For further insight into what elements are included from the vessel, Searoutes should be contacted.

If data cannot be found from a specific vessel, industry standards for emissions in 30 different trade lanes will be assessed and the current one used as a substitute in the calculation. It should be noted that the CO2 calculator uses weight as the main indicator for the shipped goods.

To account for deviations from the shortest possible route, 15% distance length is added. This is recommended by the GLEC standard and takes into account port stops, weather and other deviations. The general calculation method is GLEC certified and follows the EN16258 approach with an ambition to be in line with the upcoming ISO14083 standard.

The result from the CO2 calculator is reported in both TTW – Tank to Wheel, and WTW – Well to Wheel.

TTW include the direct CO2 emissions from fuel combustion., while WTW also includes the indirect emissions from the entire supply chain. The result is measured in CO2e - equivalence, which includes all greenhouse gasses (not just CO2).

Some customers have special wishes to get CO2 data on something that is not included in the above calculation. In such cases, it may be necessary to use external CO2 calculators or obtain data from third parties. It may also be necessary to use estimates. It appears from the report if the figure is estimated or comes from third parties. Data from before 2023 are calculated in an external CO2 calculator. We point out that we do not always have the opportunity to check CO2 calculations obtained from sources other than our own CO2 calculator.

Sometimes there are several legs in the transport. We currently have no option to include travel by courier in the calculations. Trains are currently calculated as truck transport. See the calculation basis for this in the disclaimer for road freight. Driving with external hauliers, who are not part of ALPI's systems, is based on an estimate.

Note: A 5% margin of error has been incorporated. This means that there can be errors in up to 5% of the data base.





### **Data source for CO2 reports on sea freight before January 2023**

If customers want data for periods before 1 January 2023, EcoTransIT World's online CO2 calculator is used for the calculations. EcoTransIT World works according to the EN16258 approach, the GLEC framework and the Greenhouse Gas Protocol. The methodology can be viewed on EcoTransIT's website.

The result from the CO2 calculator is reported in both TTW – Tank to Wheel and WTW – Well to Wheel. TTW include the direct CO2 emissions from fuel combustion., while WTW also includes the indirect emissions from the entire supply chain. The result is measured in CO2e - equivalence, which includes all greenhouse gasses (not just CO2).

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