

VIIA certifies that

# **Lankveld**

## **Logistics BV**

by using the services of the Lorry-Rail Rail Motorway, has reduced its carbon footprint by:

# - 1 602 039,7 Kg



NUMBER OF JOURNEY

1608

FROM

01.01.2022

TO

31.12.2022

Reynald NICOLAS  
CEO

Daniel Lebreton  
Sales and Marketing Director



# INFORMATION ON THE QUANTITY OF GREENHOUSE GASES EMITTED AND PREVENTED DURING THE TRANSPORT SERVICE

## GENERAL METHODOLOGY

To compare CO<sub>2</sub>e emissions between a Rail Motorway and an equivalent road service, we used the methodological guide for GHG information for transport services (September 2018 version) prepared by ADEME, pursuant to Article L. 1431-3 of the French Transport Code.

## GREENHOUSE GAS EMISSIONS FOR A RAIL SERVICE

For emissions relating to a Rail Motorway journey, the calculation takes into account the following elements:

- The mileage travelled by the train on the rail network
- The average weight of a semi-trailer or ILU
- The rail electricity emission factors\* in each country for electricity consumption

CO<sub>2</sub>e\*\* emission rates per t.km (Source: Base Carbone, 2021)

Rail Journey in France  
0,000107 kg CO<sub>2</sub>e/t.km

The CO<sub>2</sub> emission factor was calculated based on the electricity mix of each country with the Base Carbone® data from ADEME (French Department of environment and energy).

\* The emission factors vary, in particular, according to the energy mix of each country and therefore change annually.

\*\* CO<sub>2</sub>e: CO<sub>2</sub> equivalent.

## GREENHOUSE GAS EMISSIONS FOR AN EQUIVALENT ROAD SERVICE

For emissions relating to a road journey, the calculation takes into account the following elements:

- The average mileage travelled by road: average between the fastest and the cheapest route (Source: Mappy)
- The fuel consumption rate of a standard diesel fuel goods vehicle (Source: ADEME, 2018)

Consumption rate

Articulated truck 40 tons GCWR – Miscellaneous goods/long distance (Diesel fuel): 0.342 l/km

- Emission factors for diesel fuel (Source: Base Carbone, 2021)

CO<sub>2</sub>e emission factor (Upstream phase and operation)

Diesel Fuel B7 : 3,1 kg CO<sub>2</sub>e/l

## OVERVIEW OF GREENHOUSE GAS EMISSIONS FOR RAIL SERVICES AND ROAD SERVICE

LINE	GHG EMISSIONS RAIL SERVICE PER ILU (KgCO <sub>2</sub> e)	GHG EMISSIONS EQUIVALENT ROAD SERVICE PER ILU (KgCO <sub>2</sub> e)	EMISSIONS OF GHG SAVED WITH RAIL SERVICE PER ILU (KgCO <sub>2</sub> e)
LE BOULOU CALAIS	33,8	1 237,4	1 203,6
LE BOULOU BETTEMBOURG	27,0	1 023,3	996,3
ORBASSANO AITON	17,3	179,6	162,4
CALAIS ORBASSANO	42,4	1 085,8	1 043,4
MACON CALAIS	20,0	782,7	762,7
MACON LE BOULOU	14,5	643,9	629,4
SETE CALAIS	30,5	1 140,4	1 109,9
SETE BETTEMBOURG	22,1	874,9	852,8
LE BOULOU GENNEVILLIERS	26,0	943,3	917,3

GHG: Green house gas. The main greenhouse gases are: CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFC, PFC, SF<sub>6</sub>, NF<sub>3</sub>  
ILU = intermodal transport unit

If you would like more information about the methodology used for calculating emitted and saved CO<sub>2</sub>, please contact us at [zero.emission@via.com](mailto:zero.emission@via.com) or contact your sales representative.

