

**CO<sub>2</sub> SAVER**  
**CERTIFICATE 2022**

CERTIFICATE N°: **EN2022-08**

VIA certifies that



by using the services of the Lorry-Rail & VIA Rail Motorways, has reduced its carbon footprint by:

**- 12 202 409 Kg**



NUMBER OF JOURNEY

**12 072**

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	GHG EMISSIONS EQUIVALENT ROAD SERVICE PER ILU	EMISSIONS OF GHG SAVED WITH RAIL SERVICE PER ILU
	(KgCO <sub>2</sub> e)	(KgCO <sub>2</sub> e)	(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@viaa.com](mailto:zero.emission@viaa.com) or contact your sales representative.

