

The rehabilitation of railway infrastructures and the construction of a multimodal platform at the Perrier plant in Vergèze allows the Perrier brand to achieve a modal shift from road to rail for the transport of its products to the port of Fos-sur-Mer and thus reduce the associated CO2 emissions.

Starting date of the project	October 2018		
Project Localisation Places of implementation of the project at this stage and targeted geography if replicable.	The Ballast project was born in the Occitanie region line linking the Perrier plant, in Vergèze, and the post approximately 100kms. The conversion from road to rail transport can be re-	ort of Fos-sur-Mer, near Marseille, over a distance of	
Project objectives Type of climate innovation of the project with a description of the problem/issue addressed	exporting its products by rail rather than road. At the same time, the project relieves the road co	linked to the transport of the Perrier brand by ongestion between the Perrier factory in Vergèze in the Bouches-du-Rhône department, over a distance	
Detailed project description	Through Ballast, Perrier is responding to more global issues. Last July, the brand committed to achieving carbon neutrality by 2022. This neutrality is one of the components of the Nestlé Group's commitment to reach net zero emissions by 2050 in compliance with the Paris agreements. As transport accounts for around 39% of the Perrier brand's emissions* , Ballast is therefore part of the group's efforts to reduce emissions.		
	(Bouches-du-Rhône) enables the Perrier brand to tr 13,500 containers per year.	site of Vergèze (Gard) and the port of Fos-sur-Mer ransport 70% of its maritime exports by rail, i.e. nearly	
	As a result, the Ballast project is having a positive impact on reducing the brand's carbon footprint by switching from diesel trucks to an 80% electric train, reducing Perrier's dependence on oil. This process also improves the traffic flow. The Ballast project has a positive impact on urban areas by relieving congestion on the roads linking the plant to the port of Fos-sur-Mer, an area that is particularly saturated between Monday and Friday. * The three main categories that make up Perrier's carbon footprint are logistics (including transport) at 41%, packaging at 41% and manufacturing at 12%.		
Main project's drivers for reducing the		Details on the aspects of the project	
greenhouse gas emissions	Reduction levers ☐ Energy and resource efficiency (including behaviour)	Details on the aspects of the project	
	⊠ Energy Decarbonisation □ Energy efficiency improvements □ Improving efficiency in non-energy resources □ Emissions absorption: creation of carbon sinks, negative emissions (BECCS, CCU/S,) □ Financing low-carbon producers or	Modal shift from road to rail for freight transport	
	disinvestment from carbon assets ☐ Reduction of other greenhouse gases emission		
Emission scope(s) on which the project has a significant impact and quantification of GHG emission reductions per emission scope	Aspects of the contributing to	e project Othe reduction GHG emissions by emission category	

		of emissions by emission	Diagon follow the
		category	Please follow the
			quantification methodology
	Deduction of the commonwise or	aub an danandanas	used in the Afep guidelines.
	Reduction of the company's ca Scope 1	Modal shift from road to rail for	
	Direct emissions generated by	freight transport	-2,2 ktCO2eq/year
	the company's activity.	Treight transport	-2,2 KtGO2eq/year
	Scope 2		
	Indirect emissions associated		
	with the company's electricity		
	and heat consumption.		
	Scope 3		
	Emissions induced (upstream		
	or downstream) by the		
	company's activities, products		
	and/or services in its value		
	chain.		
	Increase of carbon sinks		
	Emissions Absorption		
	Carbon sinks creation,		
	(BECCS, CCU/S,)		
	GHG emissions avoided by the	company at third parties	
	Avoided Emissions		
	Emissions avoided by the		
	activities, products and/or		
	services in charge of the		
	project, or by the financing of emission reduction projects		
	emission reduction projects		
		w, the Ballast project makes it pos aded to 24T, making the Vergèze-	sible to move from an initial situation Fos-sur-Mer journey and consuming ce.
	297 570.0 tonnes		
	256 294 800 litres transported		
	12469 trucks		
	90 km distance		
	50% average empty distance rat	es	
			flow consists of multiplying the litres
	consumed (713,068) by the emiss 1,000 to obtain tCO2eq. This bring	` •	CO2/litre) and dividing the result by
		actor in gco2 / t.km (1.67Gco2 / t.	ists of multiplying the tonnes / kms km) and dividing the result by 1 000
	In the end, 2,201 tCO2eq were av	oided by switching from road to ra	all transport.
Modality of verification of the	Calculation standard used (ADE	ME base, GHG protocol, etc.):	Base ADEME
quantification.	Verification of the calculation (in quantified the emission reductions		

Other environmental and social benefits of the project	The project responds to SDG 7 "Affordable and Clean Energy", by reducing dependence on diesel, switching from trucks to 80% electric train journeys.
	It responds to SDG 9 "Industry, Innovation and Infrastructure", by innovating and investing in greener and more sustainable transport modes.
	The project responds to SDG 11 "Sustainable Cities and Communities", by relieving road congestion between the Vergèze plant and the Port of Fos-sur-Mer, but also by reducing transport-related noise pollution by 10-15% for the local population.
	Finally, we are responding to SDG 12 "Responsible Consumption and Production" by reducing the environmental impact of our products, since the volumes now transported by train represent 43%* of the global volumes of the Perrier brand.
	* According to the LCA study conducted by RDC on 2018 volumes.
Project maturity level	□ Prototype laboratory test (TRL 7) □ Real life testing (TRL 7-8) □ Pre-commercial prototype (TRL 9) □ Small-scale implementation □ Medium to large scale implementation
	Remarks: Deployment completed.
Capacity and conditions of the project reproducibility, with associated climate	Nestlé is committed to reducing its GHG emissions to achieve net zero emissions by 2050.
impact mitigation potential	Following on from the 'Ballast' project, Nestlé Waters has undertaken other projects. For example, in 2019, Vittel (a Nestlé Waters brand), in partnership with VFLI (a subsidiary of the SNCF), replaced a train running on diesel over a distance of 600kms between the Vittel factory in the Vosges and Arles with the first European dual-mode hybrid train EURODUAL, which makes almost all of its journey in electric mode (565kms)
	These various projects are in line with the government's desire to increase the share of rail freight in France, reaffirmed last July.
	Ballast was created in barely a year, a record for a project of this scale. The conditions for this success are reflected in the seamless collaboration between private and public actors.
Amount of investment made (in €)	Nestlé Waters invested 2 million euros in the Ballast project. The Occitanie region also contributed with
	a financial support of 200,000 euros.
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Economic profitability of the project (ROI)	The project has enabled the rehabilitation of the railway infrastructure and the construction of the
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Engaged partnerships	The project has enabled the rehabilitation of the railway infrastructure and the construction of the multimodal platform. ST (0-3 years) MT (4-10 years) LT (> 10 years) Remarks: The tonnes of CO2 saved through the Ballast project represent avoided carbon credit costs in achieving Perrier's carbon neutrality in 2022. In addition, the rising cost of road transport has been a driver for the transition from diesel to electric which has allowed us to be less dependent in the short term. As part of this project, numerous partnerships have been set up with: Perrier Région Occitanie SNCF Réseau/SNCF Infra RégioRail Amsted Digital Solutions Arnal Bolloré Logistics Brifer Combronde Ermewa Eurofos et Seayard Grand Port Maritime de Marseille Finally, this project, carried out in partnership with the SNCF Réseau and other actors, has enabled investment in a more responsible and sustainable mode of transport that benefits everyone.
(ROI)	The project has enabled the rehabilitation of the railway infrastructure and the construction of the multimodal platform. ☑ ST (0-3 years) ☐ MT (4-10 years) ☐ LT (> 10 years) Remarks: The tonnes of CO2 saved through the Ballast project represent avoided carbon credit costs in achieving Perrier's carbon neutrality in 2022. In addition, the rising cost of road transport has been a driver for the transition from diesel to electric which has allowed us to be less dependent in the short term. As part of this project, numerous partnerships have been set up with: ■ Perrier ■ Région Occitanie ■ SNCF Réseau/SNCF Infra ■ RégioRail ■ Amsted Digital Solutions ■ Arnal ■ Bolloré Logistics ■ Brifer ■ Combronde ■ Ermewa ■ Eurofos et Seayard ■ Grand Port Maritime de Marseille Finally, this project, carried out in partnership with the SNCF Réseau and other actors, has enabled



