



The refurbishment of furniture – Emblematic Passenger Shelters*

JCDecaux, leader in outdoor advertising, is giving concrete expression to its ambitions to reduce carbon emissions through its approach to refurbishing furniture, including passenger shelters. This practice consists of giving a second life to furniture by extending their useful life. Offered as part of new contracts (if authorised by the specifications), the refurbished equipment offers significant environmental benefits compared to new furniture.

Starting date of the project	Practice in place for many years. Gains calculated since 2019 for an emblematic* passenger shelter model representative of our fleet in France	
Project Localisation Places of implementation of the project at this stage and targeted geography if replicable.	The refurbishment of our furniture is a practice deployed in many areas in France, such as the SMTC of Grenoble, the Grand Paris Seine Ouest and the Strasbourg metropolis.	
Project objectives Type of climate innovation of the project with a description of the problem/issue addressed	Policies and practices for the refurbishment of its furniture - JCDecaux's emblematic passenger shelters* aim to: - Significantly minimise the environmental impact (raw material extraction and manufacturing phases of new furniture) and reduce associated greenhouse gas emissions - Give a second life to the furniture according to the principle of "programmed durability" to allow the products to remain in service over very long periods, up to several decades for a passenger shelter - Minimise waste: only components that cannot be reused are sent for recycling - Reduce transport for the delivery of materials	
Detailed project description	xxx	
Main project's drivers for reducing the greenhouse gas emissions Enter the information in the appropriate boxes	Reduction levers	Details on the aspects of the project
	<input type="checkbox"/> Energy and resource efficiency (including behaviour)	Not concerned
	<input type="checkbox"/> Energy Decarbonisation	100% carbon-free energy: 100% of the electrical consumption during the bus shelter's operational phase is covered by renewable electricity via the purchase of guarantees of origin.
	<input type="checkbox"/> Energy efficiency improvements	Updating the lighting system of our furniture to reduce electricity consumption. Fluorescent tubes are replaced by high efficiency LED tubes.
	<input type="checkbox"/> Improving efficiency in non-energy resources	The choice of durable, high-quality and easily recyclable materials at the design stage of the furniture enables us to offer refurbished equipment in the context of a new contract. The refurbishment carried out in accordance with JCDecaux standards enables the vast majority of pieces to be retained in order to minimise the environmental impact associated with the extraction of raw materials for the manufacture of new components.
	<input type="checkbox"/> Emissions absorption: creation of carbon sinks, negative emissions (BECCS, CCU/S, ...)	Not concerned
	<input type="checkbox"/> Financing low-carbon producers or disinvestment from carbon assets	Not concerned
<input type="checkbox"/> Reduction of other greenhouse gases emission	Not concerned	

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Emission scope(s) on which the project has a significant impact and quantification of GHG emission reductions per emission scope	Aspects of the project contributing to the reduction of emissions by emission category		Quantification of associated GHG emissions by emission category
	Please follow the quantification methodology used in the Afep guidelines .		
<p>Indicate the aspects of the project that contribute to the reduction of emissions per category of emissions considered (left-hand column) and the quantification of associated emissions.</p> <p>Indicate the main hypotheses and calculation steps in the intended section (below the table)</p> <p>For further details, please refer to the methodology guidelines.</p>	Reduction of the company's carbon dependency		
	Scope 1 <i>Direct emissions generated by the company's activity.</i>	Transport: 2 possible types of renovations to consider: - On-site renovation - Renovation in the workshop In both cases, transport is taken care of by JCDecaux	
	Scope 2 <i>Indirect emissions associated with the company's electricity and heat consumption.</i>	Reduced electricity consumption through LED retrofit, smart lighting & renewable electricity coverage (for every MWh of electricity consumed we buy 1 MWh of renewable electricity via Guarantees of Origin)	296 kg of CO2 saved per bus shelter for ten years of use. That is, for all the furniture refurbished since 2019 (1392 bus shelters) 412 TCO2 for 10 years of use
	Scope 3 <i>Emissions induced (upstream or downstream) by the company's activities, products and/or services in its value chain.</i>	Purchased goods and services & Capital goods: Minimising the environmental impact of extracting raw materials for the manufacture of new components + the vast majority of pieces are retained, reducing the purchase of new pieces Waste: the vast majority of pieces are kept and reused, minimising the waste generated Treatment of products sold at end of life: components that cannot be reused are sent for recycling Transport and distribution: minimised for the delivery of materials	2,770 kg of CO2 saved per bus shelter for ten years of use. That is, for all the furniture refurbished since 2019 (1,392 bus shelters) 3,856 TCO2 for 10 years of use
	Increase of carbon sinks		
	Emissions Absorption <i>Carbon sinks creation, (BECCS, CCU/S, ...)</i>	Not concerned	Not concerned
	GHG emissions avoided by the company at third parties		
Avoided Emissions <i>Emissions avoided by the activities, products and/or services in charge of the project, or by the financing of emission reduction projects.</i>	Not concerned	Not concerned	
<p>Clarification on the calculation or other remarks: It can be assumed that the manufacture of a new furniture (bus shelter) results in the emission of 6,661 kgCO₂. The refurbishment of used furniture results in the emission of 3,891 kgCO₂. 6,661 - 3,891 = 2,770 kg of CO₂ saved per bus shelter over a 10-year period. For all the furniture reconditioned since 2019 (1,392 bus shelters in total), this represents 3,856 TCO₂ for 10 years of use.</p> <p>In addition, the use of renewable electricity (EF: 14 gCO₂/kWh*) instead of electricity from the French grid (~60gCO₂/kWh) and the reduction in electricity consumption of each bus shelter thanks to LED and smart lighting (344 kWh/year vs. 574 kWh/year) results in a reduction of CO₂ emissions of around 29.6 kgCO₂/year. For all the furniture refurbished since 2019 (1392 bus shelters in total), this represents 412 TCO for 10 years of use.</p>			

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	*ADEME's emission factor for onshore wind power, the source of green electricity most used in our purchases via Guarantees of Origin
Modality of verification of the quantification.	Calculation standard used (ADEME base, GHG protocol, etc.): Calculation carried out internally on the basis of our Life Cycle Analyses (LCA) (GHG Protocol and Ademe emissions database) and operating assumptions for France over 10 years with identical refurbishment for all 1,392 bus shelters click here to enter the information Verification of the calculation (internal or external): click here to enter the information
Other environmental and social benefits of the project If possible, list the impacts and Sustainable Development Objectives concerned	6: Clean water and sanitation - the use of water resources is minimised during the operational phase of the bus shelter 7: Affordable and clean energy - the electricity used to power the furniture is from renewable sources 11: Sustainable cities and communities - as a player in the urban environment, JCDecaux's emblematic* passenger shelters help promote the use of public transport 12: Responsible consumption and production - the refurbishment of passenger shelters allows for the reuse of materials that can be reused. Components that cannot be reused are sorted for processing in the appropriate channels 13: Climate action - reducing carbon emissions and minimising other environmental impacts
Project maturity level Tick the corresponding current maturity level	<input type="checkbox"/> Prototype laboratory test (TRL 7) <input type="checkbox"/> Real life testing (TRL 7-8) <input type="checkbox"/> Pre-commercial prototype (TRL 9) <input type="checkbox"/> Small-scale implementation <input checked="" type="checkbox"/> Medium to large scale implementation Remarks: click here to enter the level of maturity of the project
Capacity and conditions of the project reproducibility, with associated climate impact mitigation potential	As the reductions in the environmental impacts of refurbishment are significant (-42%** in GHG emissions, -30%** in ozone depletion over the entire life cycle of the device studied), this project has a strong potential in terms of climate impact. In addition to this, there are cost advantages that are taken into consideration in the replicability of the project on other types of furniture, and on a larger scale, in our cities. **Figures based on in-house LCAs assessing the environmental impacts of refurbished versus new emblematic* passenger shelters
Amount of investment made (in €)	
Economic profitability of the project (ROI)	<input type="checkbox"/> ST (0-3 years) <input checked="" type="checkbox"/> MT (4-10 years) <input type="checkbox"/> LT (> 10 years) Remarks: click here to enter the information
Engaged partnerships	The project to refurbish the emblematic passenger shelters* is being carried out internally by JCDecaux and does not involve other partners
Open comments from the project owner	Our refurbishment approach is made possible by the quality of the design of our furniture upstream and their maintenance throughout the duration of the contracts. Since 2013, our tool "The Store" allows countries with reusable furniture in stock to put it online so that it can be offered as refurbished furniture for new contracts (if authorised by the specifications).
More about the project	
Contact the company carrying the project Please specify an ad hoc e-mail address that will allow the reader to contact the project company directly	Email address: direction.communication@jcdecaux.com
Project URL links	
Illustrations of the project 3 photos/videos minimum (in HD format to be attached)	