

Improving the energy efficiency of bioMérieux's international distribution center, as part of the expansion of the facilities



bioMérieux is seizing the opportunity of its distribution site expansion to improve the energy efficiency of the building.

Starting date of the project	December 2020: Start of installation January 2021: Commissioning		
Project Localisation Places of implementation of the project at this stage and targeted geography if replicable.	Saint-Vulbas, Ain.		
Project objectives Type of climate innovation of the project with a description of the problem/issue addressed	Minimizing the carbon footprint associated with the activities of the bioMérieux site in Saint-Vulbas, in particular as part of the expansion of the company's international distribution center.		
Detailed project description	In its specifications, the expansion project of the Saint-Vulbas international distribution center includes the following measures for improving the energy efficiency of the building: - Electrical production from renewable sources: installation of photovoltaic panels allowing self-production of 5% of annual power requirements (1st phase, 1400 m2); 10% once the 2nd phase is completed. - Thermal insulation - Low-consumption lighting		
Main project's drivers for reducing the greenhouse gas emissions	Reduction factors	Details of the associated project aspects	
	☐ Energy and resource efficiency (including behaviour)		
	☒ Energy Decarbonisation	Production of 5% of annual power requirements, up to 10% at a later stage, using photovoltaic panels	
	☒ Energy efficiency improvements	Thermal insulation of the building and low-consumption lighting	
	☐ Improving efficiency in non-energy resources		
	☐ Emissions absorption: creation of carbon sinks, negative emissions (BECCS, CCU/S, ...)		
	☐ Financing low-carbon producers or 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 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. Indicate the main hypotheses and calculation steps in the intended section (below the table) For further details, please refer to the methodology guidelines.	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 .
	Reduction of the company's dependence on carbon		
	Scope 1 <i>Direct emissions resulting from the company's business activities.</i>	Thermal insulation of the future building.	Not assessed
	Scope 2 <i>Indirect emissions associated with the company's electricity and heat consumption.</i>	Low-consumption lighting	70% reduction in power usage was achieved by installing low-consumption lighting.
		Production of 5% of annual power requirements. up to	Emissions reduced by 20 tons eqCO2, then by 40 tons eqCO2, based on current

		10% at a later stage, using photovoltaic panels	power consumption (i.e., before the expansion)
	Scope 3 <i>Emissions induced (upstream or downstream) by the company's activities, products and/or services on its value chain.</i>		
	Increase in carbon sinks		
	Absorption of emissions <i>Creation of carbon sinks (BECCS, CCU/S, etc.)</i>		
	GHG emissions avoided by the company on other sites		
	Avoided emissions <i>Emissions avoided by the activities, products and/or services of the company carrying the project, or by the financing of emissions reduction projects.</i>		
Clarification on the calculation or other remarks: Emissions factor for grid power in France = 0.075 kg eqCO ₂ /kWh CO ₂ emissions of site in its current configuration (before commissioning of the new building) = 184,353 kg CO ₂ emissions with photovoltaic panels providing 5% of total power consumption of site in its current configuration = 165,917 kg CO ₂ emissions with photovoltaic panels providing 10% of total power consumption of site in its current configuration = 147,482 kg			
Modality of verification of the quantification.	Calculation standard used (ADEME base, GHG protocol, etc.): ADEME base		
Other environmental and social benefits of the project If possible, list the impacts and Sustainable Development Objectives concerned	Verification of the calculation (internal or external): Internal evaluation The project contributes to the following SDGs: - SDG 7 - Clean and affordable energy, by installing photovoltaic panels to reduce grid power consumption - SDG 13 - Measures relating to climate change, by implementing solutions aimed at reducing the energy footprint of a new building (thermal insulation/airtightness, low-consumption lighting, recourse to self-production from a renewable energy source for some of the site's power needs)		
Project maturity level Tick the corresponding current maturity level	☐ Prototype laboratory test (TRL 7) ☐ Real-life test (TRL 7-8) ☐ Pre-market prototype (TRL 9) ☐ Small-scale implementation ☒ Medium or large scale implementation Remarks : Click or tap here to specify the maturity level of the project		
Capacity and conditions of the project reproducibility, with associated climate impact mitigation potential	To promote the reproducibility of the project, collaboration with local actors must be strengthened. Studies for the installation of photovoltaic panels are in progress on the other sites (shades, ground panels), with assessment of possible financial assistance depending on geographical location.		
Amount of investment made (in €)	The investment amounts to: €5.5 million for the building extension €0.3 million for the solar panels €0.9 million earmarked for thermal renovation		
Economic profitability of the project (ROI)	☐ Short-term (0-3 years) ☐ Medium-term (4-10 years) ☒ Long-term (> 10 years) Notes: Click or tap here to enter text.		
Engaged partnerships	/		
Open comments from the project owner	/		
More about the project			
Contact the company carrying the project	Christophe Berthelot (bioMérieux): christophe.berthelot@biomerieux.com Laurence Greve (Technical Services Manager): laurence.greve@biomerieux.com		

Please specify an ad hoc e-mail address that will allow the reader to contact the project company directly	
Project URL links	/
Illustrations of the project 3 photos/videos minimum (in HD format to be attached)	