## Installation of a photovoltaic shade



To reduce the carbon footprint of its La Balme site and decarbonize the energy used, bioMérieux has installed a photovoltaic shade on the parking lots. This will enable it to produce 20% of its own energy.

Starting date of the project	December 2020				
Project Localisation	La Balme, Isère.				
Places of implementation of the project at this stage and targeted geography if replicable.					
Project objectives	Minimize the carbon footprint of its La Balme site by installing photovoltaic panels that will produce 20% of				
Type of climate innovation of the project with a description of the problem/issue addressed	the site's energy for self-consumption. 5300 m2 of photovoltaic shading have been deployed with an installed power of 1MWp, which is the largest authorized power (in 2020, it was the largest photovoltaic shading project in France).				
Detailed project description	To reduce its environmental impact and minimize its dependence on the electricity grid, bioMérieux is launching a local initiative at its La Balme site in Isère. The company has installed 5,300 square meters of photovoltaic shade on its parking lots, with an installed capacity of 1 MWp, the highest authorized capacity. In 2020, this was the largest photovoltaic shade structure project in France. The photovoltaic panels allow the La Balme site to: Produce electricity from renewable sources, which will then be used by the bioMérieux site Produce 20% of the site's energy for self-consumption				
Main project's drivers for reducing	Reduction levers		Details on the	aspects of the project	
the greenhouse gas emissions	<ul> <li>Energy and resource efficiency behaviour)</li> </ul>	/ (including			
	Energy Decarbonisation Production consumption		Production of 2 consumption (g	20% of the site's current electricity (grid electricity) by solar panels.	
	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 disinvestment from carbon assets     Beduction of other greenhouse gases				
	emission	3			
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 reductio 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 carbon dependency				
	Direct emissions generated by the company's activity.	1 by			
	Scope 2 Indirect emissions associated with the company's electricity and heat consumption.		the use of from the grid	Before project: 220tCO2eq/year of CO2 emissions related to the electricity consumption	
				Post-project : 130tCO2eq/year	
				Scope 2: - 90 tons	
	Scope 3				

	Emissions induced (upstream				
	or downstream) by the				
	company's activities, products				
	and/or services in its value				
	Increase of earbon einke				
	Emisiona Abountian				
	Carbon sinks grading				
	GHC omissions avoided by the company at third parties				
	Avoided Emissions				
	Emissions avoided by the				
	activities products add/or				
	services in charge of the				
	project or by the financing of				
	emission reduction projects				
	Clarification on the calculation or other remarks: Emission factor for grid electricity in France: 0.075 kg eq CO2 / kWh				
Modality of verification of the	Calculation standard used (ADEME base, GHG protocol, etc.): GHG Protocol and ADEME emission				
quantification.	factors				
	Verification of the calculation (internal or external): internal verification				
Other environmental and social	The project contributes to SDG 7 Clean and Affordable Energy by producing 20% of the site's energy needs				
benefits of the project	for self-consumption through the use of photovoltaic panels and minimizing the site's electricity consumption taken from the grid.				
Project maturity level	Prototype laboratory test (TRL 7)				
	$\Box$ Beal life testing (TBI 7-8)				
	$\square \square $				
	□ Ontail-Scale implementation				
	Inviction to large scale implementation				
	Remarks: click here to enter the level of maturity of the project				
Capacity and conditions of the	In order to promote the replicability of the project, it is necessary to strengthen the collaboration with local				
project reproducibility, with	actors.				
associated climate impact	The technical solutions chosen must be viable and sustainable.				
mitigation potential					
Amount of investment made (in €)	1.9 million over 20 years (construction, commissioning, dismantling and maintenance costs).				
	bioMérieux will receive a €10/MWH bonus from the CRE (Commission de Régulation de l'Energie), which will				
	be used by the plant itself, i.e. approximately €10-15k per year over a 10-year period, i.e. approximately				
	€150k in aid (depending on the amount of energy produced).				
Economic profitability of the	□ ST (0-3 years)				
project (ROI)	$\square$ MT (4-10 years)				
	$\square$   I (> 10 years)				
	Remarks: click here to enter the information				
Engaged partnerships	Through this project, two partnerships have been initiated with the consulting firms Energ' serve and HORNET				
gagee par	énergies, specialized in solar renewable energies.				
Open comments from the project					
owner					
More about the project					
Contact the company carrying the	Hornet Energie				
project					
	http://hornet-energies.fr/				
Project URL links					
Illustrations of the project					

