

Installation of photovoltaic panels on the Mondego site, Portugal



This project aims at the production and self-consumption of solar energy on the Verallia site in Mondego, Portugal, through the installation of photovoltaic panels.

Starting date of the project	Q1 2022		
Project Localisation Places of implementation of the project at this stage and targeted geography if replicable.	Mondego Site (Figueira da Foz ; Portugal)		
Project objectives Type of climate innovation of the project with a description of the problem/issue addressed	The main objective of this project is to reduce CO2 emissions from the electricity consumption of the Mondego production site.		
Detailed project description	Self-consumption of solar energy produced on site by installing photovoltaic panels on the available surface of the site (> 31,000 m2) on the roof and on the ground: 5.6 MW installed.		
Main project's drivers for reducing the greenhouse gas emissions	Reduction levers	Details on the aspects of the project	
	<input type="checkbox"/> Energy and resource efficiency (including behaviour)		
	<input checked="" type="checkbox"/> Energy Decarbonisation	Self-consumption of the solar energy produced replacing part of the electricity from the Portuguese grid	
	<input type="checkbox"/> Energy efficiency improvements		
	<input type="checkbox"/> Improving efficiency in non-energy resources		
	<input type="checkbox"/> Emissions absorption: creation of carbon sinks, negative emissions (BECCS, CCU/S, ...)		
	<input type="checkbox"/> Financing low-carbon producers or divestment from carbon assets		
<input type="checkbox"/> 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 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 Afer guidelines .	
	Reduction of the company's carbon dependency		
	Scope 1 <i>Direct emissions generated by the company's activity.</i>		
	Scope 2 <i>Indirect emissions associated with the company's electricity and heat consumption.</i>	Self-consumption of electricity corresponding to 14% of the consumption of the site	3115 teqCO2
	Scope 3 <i>Emissions induced (upstream or downstream) by the company's activities, products and/or services in its value chain.</i>		
	Increase of carbon sinks		
Emissions Absorption <i>Carbon sinks creation, (BECCS, CCU/S, ...)</i>			

	<p>GHG emissions avoided by the company at third parties</p> <table border="1" data-bbox="486 215 1481 365"> <tr> <td data-bbox="486 215 817 365"> <p>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></p> </td> <td data-bbox="817 215 1147 365"></td> <td data-bbox="1147 215 1481 365"></td> </tr> </table> <p>Clarification on the calculation or other remarks: The installation of the solar panels allows to produce 14% of the total consumption of the Mondego site (in Figueira da Foz, Portugal). The average emission factor of the electricity consumed by the site is reduced by 14% considering that the emission factor of the electricity produced by the solar panels is 0 kgCO₂/MWh. The CO₂ emission saving represents 3115 tCO₂. In 2020, the electricity consumption of the Mondego site (in Figueira da Foz, Portugal) is of the order of 57 MWh. The installation of the solar panels will produce 8.3 MWh. Considering that the emission factor of the Portuguese grid is specify</p>	<p>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></p>		
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<p>Modality of verification of the quantification.</p>	<p>Calculation standard used (ADEME base, GHG protocol, etc.): Portugal's residual emission factor published by AIB</p> <p>Verification of the calculation (internal or external): Internal verification</p>			
<p>Other environmental and social benefits of the project</p>	<p>The project contributes to SDG 9 Industry, Innovation, Infrastructure and SDG 12 Responsible Consumption and Production, by increasing the use of renewable energy.</p>			
<p>Project maturity level</p>	<p> <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 </p> <p>Remarks: click here to enter the level of maturity of the project</p>			
<p>Capacity and conditions of the project reproducibility, with associated climate impact mitigation potential</p>	<p>This on-site photovoltaic panel project is the first one carried out by Verallia. The goal is now to duplicate it on the various Verallia sites when conditions permit. This initiative is fully in line with Verallia's objective of achieving at least 60% of renewable and low-carbon energy in its supplies by 2025.</p>			
<p>Amount of investment made (in €)</p>	<p>Project 0 Capex for Verallia</p>			
<p>Economic profitability of the project (ROI)</p>	<p> <input type="checkbox"/> ST (0-3 years) <input type="checkbox"/> MT (4-10 years) <input checked="" type="checkbox"/> LT (> 10 years) </p> <p>Remarks: click here to enter the information</p>			
<p>Engaged partnerships</p>	<p>A local partnership has been initiated through this project</p>			
<p>Open comments from the project owner</p>	<p>The investment is made by the supplier with whom Verallia has signed a long-term contract</p>			
<p>More about the project</p>				
<p>Contact the company carrying the project</p>	<p>corporate.communication@verallia.com</p>			
<p>Project URL links</p>	<p>/</p>			
<p>Illustrations of the project</p>				

