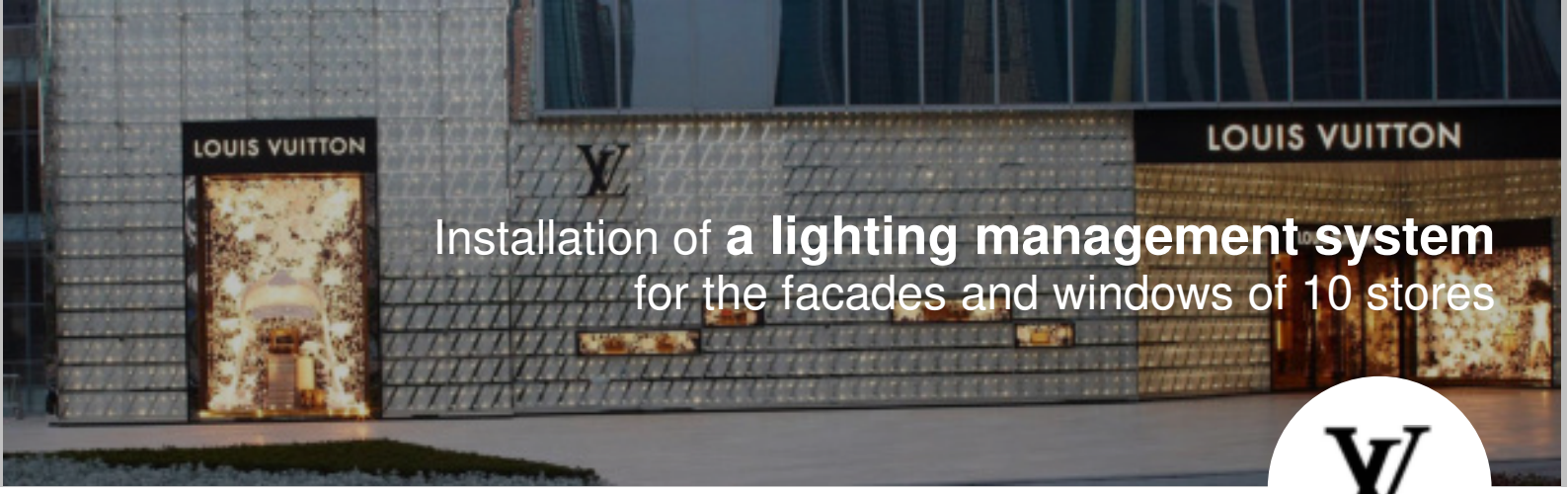

Installation of **a lighting management system** for the facades and windows of 10 stores

In order to reduce the GHG emissions of 10 of its Asian stores, Louis Vuitton has set up a system for controlling electricity consumption (lighting management system for facades and stores windows).

Starting date of the project	2019
Project Localisation Places of implementation of the project at this stage and targeted geography if replicable.	Implementation of the facade and window lighting management system in 2 Taiwanese stores ((Kaohsiung, Taipei) and 8 Chinese stores (Beijing, Changchun Charter, Chengdu, Shanghai, Shenyang).
Project objectives Type of climate innovation of the project with a description of the problem/issue addressed	To reduce electricity consumption linked to the lighting of stores as well as the associated CO2 emissions. To commit Louis Vuitton teams To bring visibility on climate commitment in stores
Detailed project description	For the Maison Louis Vuitton worldwide, stores account for 82% of greenhouse gas emissions linked to electricity (and 70% of electricity consumption). Among these stores, the 2 Taiwanese stores and 8 Chinese stores are particular in two respects: - They are located in countries where electricity is very carbon-intensive (500 gCO2 / kWh for Taiwan and more than 700g CO2 / kWh in China), - They have particularly large facades and windows. The interest of the project launched by Louis Vuitton is to install, in each site, a lighting control for facades and windows connected to an electronic timer. The slots during the switch off of the lights have been planned (especially at night). No human intervention is necessary, everything is automatic. This initiative will result in an overall energy saving estimated at 538 MWh per year (408.8 MWh in Chinese stores and 129.2 MWh in Taiwanese stores). It should prevent the emission of 395 metric tonnes of greenhouse gases each year. Note: this project is the result of the program launched by Louis Vuitton which allows each year the environmental community of the zones, called "Green Team", to highlight non-budgeted initiatives by presenting them to Michael Burke, the President of the House. In 2019, 19 projects were financed by Louis Vuitton on behalf of the LVMH Carbon Fund.
Main project's drivers for reducing the greenhouse gas emissions	

Reduction levers	**Details on the aspects of the project**
☒ Energy and resource efficiency (including behaviour)	The windows go out at night.
☐ 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 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 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 carbon dependency		
Scope 1		

	Direct emissions generated by the company's activity.		
	Scope 2 *Indirect emissions associated with the company's electricity and heat consumption.*	Switch off of facades and windows at night.	-0,4 kt CO_2 eq./year
	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.*		

Clarification on the calculation or other remarks:
538 MWh per year (408.8 MWh in Chinese stores and 129.2 MWh in Taiwan stores).
394 tonnes of greenhouse gases avoided per year, i.e. a 52% reduction in emissions from the 10 stores

Modality of verification of the quantification.	**Calculation standard used (ADEME base, GHG protocol, etc.):** click here to enter the information Specific methodology of the LVMH Carbon Fund: calculation of emissions by the difference between the initial situation and after installation of the equipment, based on equipment manufacturer data and on the energy consumption of the sites considered. The emission factors used are taken from the IEA database, 2010. **Verification of the calculation (internal or external):** **The methodology and calculations of avoided emissions (LVMH Carbon Fund methodology) are audited by the statutory auditors each year** **The CO2 emissions of the LVMH group stores (including those of Louis Vuitton) are verified by the statutory auditors with reasonable assurance.**
Other environmental and social benefits of the project	This project contributes to SDG 12 Responsible consumption and production. Through this project, the 10 stores are reducing their energy consumption, thereby raising employees' awareness of more sustainable consumption patterns.
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**: click here to enter the level of maturity of the project
Capacity and conditions of the project reproducibility, with associated climate impact mitigation potential	This system can be replicated in each store, the carbon impact depending on the country's energy mix (the more the country is carbon intensive, the greater the emissions are avoided). Regular adjustment of the system is necessary to synchronize the opening / closing times of the store with the switching off / on of facades and windows.
Amount of investment made (in €)	EUR 10,000
Economic profitability of the project (ROI)	☒ ST (0-3 years) ☐ MT (4-10 years) ☐ LT (> 10 years) **Remarks:** click here to enter the information
Engaged partnerships	/
Open comments from the project owner	/
More about the project	
Contact the company carrying the project	emmanuel.large@louisvuitton.com

Project URL links	/
Illustrations of the project