



Reforestation and ecological restoration of areas impacted by gold mining



In French Guiana, Kering is 100% revegetating alluvial gold mine sites.

Starting date of the project	November 2018																	
Project Localisation Places of implementation of the project at this stage and targeted geography if replicable.	Project implemented in French Guiana, reproducible in any region operating alluvial mines.																	
Project objectives Type of climate innovation of the project with a description of the problem/issue addressed	<p>100% revegetation of alluvial gold mines following their exploitation in French Guiana.</p> <p>Through this project, the Kering Group wishes to go beyond French regulations which impose only 30% reforestation.</p> <p>Kering's carbon footprint reduction targets cover its scope 3, and therefore its raw material purchases. Kering is committed to reducing its greenhouse gas emissions by 70% per unit of value added by 2030 from a 2015 base year. The commitment to ambitious programs to reduce greenhouse gas emissions in gold supplies is therefore necessary. It is imperative to leave no trace in the Amazon rainforest and to ensure the traceability of the gold supply.</p>																	
Detailed project description	<p>In French Guiana, Kering is working with Solicaz and Forest Finance, natural resource preservation partners, to reforest alluvial gold mines.</p> <p>After exploitation, the miner has the obligation to rehabilitate the soils and rivers on 100% of the exploited area and to revegetate 30% of it. Following ecological expertise, Kering's partners created in situ forestry nurseries and prepared more than 150,000 young plants to be spread over more than 116 hectares. Solicaz reforestation experts use a diversity of forest species including nitrogen fixing species to restore soil quality and reactivate a natural forest cycle. Planting density is an average of 1400 plants / ha.</p> <p>Today, these systems are bearing fruit and Kering's partners regularly monitor soil health (biological and nutritional activity), the quality of tree growth, and the appearance of spontaneous plant diversity.</p> <p>By aiming for a total restoration of ecosystems, this project will have the effect not only of restoring favorable conditions for a return of biodiversity (fauna: habitats for animals, insects, flora: shade and nutritional contribution), but also of recreating a well. of carbon sequestration destroyed by exploitation.</p>																	
Main project's drivers for reducing the greenhouse gas emissions	<table border="1"> <thead> <tr> <th>Reduction levers</th> <th>Details on the aspects of the project</th> </tr> </thead> <tbody> <tr> <td> <input type="checkbox"/> Energy and resource efficiency (including behaviour) </td> <td></td> </tr> <tr> <td> <input type="checkbox"/> Energy Decarbonisation </td> <td></td> </tr> <tr> <td> <input type="checkbox"/> Energy efficiency improvements </td> <td></td> </tr> <tr> <td> <input type="checkbox"/> Improving efficiency in non-energy resources </td> <td></td> </tr> <tr> <td> <input checked="" type="checkbox"/> Emissions absorption: creation of carbon sinks, negative emissions (BECCS, CCU/S, ...) </td> <td> Reforestation of an area of 116 ha </td> </tr> <tr> <td> <input type="checkbox"/> Financing low-carbon producers or divestment from carbon assets </td> <td></td> </tr> <tr> <td> <input type="checkbox"/> Reduction of other greenhouse gases emission </td> <td></td> </tr> </tbody> </table>	Reduction levers	Details on the aspects of the project	<input type="checkbox"/> Energy and resource efficiency (including behaviour)		<input type="checkbox"/> Energy Decarbonisation		<input type="checkbox"/> Energy efficiency improvements		<input type="checkbox"/> Improving efficiency in non-energy resources		<input checked="" type="checkbox"/> Emissions absorption: creation of carbon sinks, negative emissions (BECCS, CCU/S, ...)	Reforestation of an area of 116 ha	<input type="checkbox"/> Financing low-carbon producers or divestment from carbon assets		<input type="checkbox"/> Reduction of other greenhouse gases emission		
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Emission scope(s) on which the project has a significant impact and quantification of GHG emission reductions per emission scope	<table border="1"> <thead> <tr> <th>Aspects of the project contributing to the reduction of emissions by emission category</th> <th>Quantification of associated GHG emissions by emission category</th> </tr> </thead> <tbody> <tr> <td></td> <td> Please follow the quantification methodology used in the Afep guidelines. </td> </tr> </tbody> </table>	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 .													
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	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>	
	Scope 3 <i>Emissions induced (upstream or downstream) by the company's activities, products and/or services in its value chain.</i>	Reforestation of an area of 116 ha
		40,600 TCO ₂ e over 30 years, i.e. 1,354 TCO ₂ e / year
	Increase of carbon sinks	
	Emissions Absorption <i>Carbon sinks creation, (BECCS, CCU/S, ...)</i>	
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>		
Clarification on the calculation or other remarks: positive environmental externalities on biodiversity.		
Modality of verification of the quantification	Calculation standard used (ADEME base, GHG protocol, etc.): GHG Protocol and support from scientific papers from the National Forestry Office and the International Association for Vegetation Science Verification of the calculation (internal or external): No calculation verification yet, in progress to obtain the "Low Carbon Label" certification.	
Other environmental and social benefits of the project	This reforestation and revegetation project contributes to the following SDGs: <ul style="list-style-type: none"> • SDG 6 Clean water and sanitation: limiting the rate of suspended solids in water linked to soil erosion through reforestation • SDG 12 Responsible consumption and production: limitation of the environmental impacts of mining by restoring ecosystems on 100% of the exploited area, going beyond the regulations • SDG 13 Fight against climate change: creation of carbon sinks • SDG 15 Life on land: reforestation resulting from bio-inspired processes of 100% of the areas exploited for the restoration of a sylvigenetic cycle and of fauna and flora biodiversity. 	
Project 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	The reforestation and revegetation project is easily reproducible for any mining / logging project in a forest environment.	
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: Asset in terms of resilience of the supply chain, and acceptability of the business model. No ROI in the traditional financial sense.	
Engaged partnerships	3 partnerships were engaged to carry out this project: <ul style="list-style-type: none"> • Minaverde, a collective of reforestation entrepreneurs, • Solicaz, an ecological engineering company specializing in assessing soil quality and restoring biodiversity, • Forest Finance France, a company specializing in the design, assembly and management of sustainable forestry and agroforestry programs. 	
Open comments from the project owner	/	
More about the project		

Contact the company carrying the project	admin@athys.org
Project URL links	https://www.mina-verde.fr/elle-mag-mode-durable-green/
Illustrations of the project	  <p>Short movie: https://www.youtube.com/watch?v=zpn13JcXOlc&feature=emb_logo</p> <p>Long movie: https://www.youtube.com/watch?v=6w1DTKTW7-k&feature=emb_logo</p>