

BaCaSi Batéké Carbon Sink



A large-scale afforestation operation has been kicked off by TotalEnergies on the Batéké Plateau in partnership with the Republic of the Congo and the group *Forêt Ressources Management*.

Starting date of the project	November 2021	
Project localization	The Republic of the Congo, the Plateaux department (Batéké plateau)	
Project objectives	<p>The BaCaSi project plans the sustainable management of a 55,000-ha site made up of damaged grasslands exposed to regular bush fires, as part of the National Afforestation Program (ProNar) initiated by the Congo.</p> <p>The aim is to plant a new 40,000-ha carbon sink that will capture 12 million tCO₂e over 35 years.</p>	
Detailed project description	<p>The operation, due to last 35 years, includes:</p> <ul style="list-style-type: none"> Planting a new forest of 38,000 ha of <i>Acacia mangium</i>, which will be sustainably harvested as from 2040 (selection cutting) and used to supply sawed timber and plywood to Brazzaville and Kinshasa. Developing a 2,000-ha agroforestry perimeter (with an eight-year rotation) of <i>Acacia auriculiformis</i>, associated with the production of agricultural commodities (cassava) and energy wood for the local market. Preserving gallery forests and other sensitive ecosystems found on the site (around 5,000 ha). 	
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 behavior)	
	<input type="checkbox"/> Energy decarbonization	
	<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, etc.)	Afforestation of a surface area of 40,000 ha
	<input type="checkbox"/> Financing low-carbon producers or disinvestment 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	Aspects of the project contributing to the reduction of emissions by emission category	Quantification of associated GHG emissions by emission category

of GHG emission reductions per emission scope			Please follow the quantification methodology used in the Atep 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>		
	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, etc.)</i>	Afforestation of a surface area of 40,000 ha	The operation will help capture around 12 MtCO ₂ over 35 years (almost 9 tCO ₂ /ha/year on average)
	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: Click here to specify			
Modality of verification of the quantification	Calculation standard used (ADEME base, GHG protocol, etc.): based on the UNFCCC AR-ACM0003 v2.0 methodology Verification of the calculation (internal or external): verification planned as part of the third-party validation of the project in line with an internationally recognized standard (VERRA, Gold Standard or equivalent).		
Other environmental and social benefits of the project	<p>The project will help preserve the gallery forests found on site, particularly through the implementation of firewalls and surveillance of the site.</p> <p>The project will be developed in association with the local communities and indigenous people, who will benefit from the agroforestry perimeter. The project will generate direct and indirect employment, and a local development fund will support actions in favor of neighboring villages in the areas of health, nutrition and education.</p> <ul style="list-style-type: none"> • SDG 2 - Zero hunger: subsistence crops maintained in the agroforestry perimeter providing wood for heating and food commodities (cassava). • SDG 8 - Decent work and economic growth: creation of decent direct jobs (1,000 on average in planting, maintenance, and surveillance activities) and around 200 indirect jobs; development of responsible work practices. • SDG 13 - Urgent action to combat climate change: creation of carbon sinks. • SDG 15 - Life on land: planting <i>Acacia mangium</i> and <i>auriculiformis</i> on sandy plateaus exposed to recurrent bush fires will create a forest environment, which in the long term, will increase the biodiversity of ecosystems – Conservation of existing gallery forests. • SDG 17 - Partnerships for the goals: contributing to the development of local communities. 		
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: 895 ha planted in 2021 and objective of 4,000 ha for 2022.		
Capacity and conditions of the project reproducibility, with associated climate impact mitigation potential	The acacia-cassava model developed in the frame of the BaCaSi project has already been tested in the sub-region. It can be replicated on damaged grasslands.		
Amount of investment made (in €)	\$250 M over 35 years		

Economic profitability of the project (ROI)	<input type="checkbox"/> ST (0-3 years) <input type="checkbox"/> MT (4-10 years) <input checked="" type="checkbox"/> LT (> 10 years) Remarks: the additionality of the project implies an absence of financial return in the traditional sense.
Engaged partnerships	<i>Forêt Ressources Management</i> through its Congolese subsidiary Forest'Neutral Congo
Open comments from the project owner	/
More about the project	
Contact the company carrying the project	https://totalenergies.com/fr/formulaire-de-contact
Project URL links	/

Illustrations of the project



