Supply of wind power
with the signing of a PPA

FNAC DARTY

In order to reduce the carbon footprint linked to its electricity consumption, in 2019 Fnac Darty signed a renewable electricity purchase contract or PPA (Power Purchase Agreement) with Valeco, a wind energy producer, for 2020 and 2021.

Starting date of the project	January 2020
Project Localisation Places of implementation of the project at this stage and targeted geography if replicable.	Wind farm in Occitania
Project objectives Type of climate innovation of the project with a description of the problem/issue addressed	Reduce GHG emissions linked to the use of electricity by contracting a PPA with a wind power producer
Detailed project description	In 2019, Fnac Darty signed a renewable electricity purchase contract or PPA (Power Purchase Agreement) with Valeco, a wind-power producer, for 2020 and 2021. Since January 2020, the electricity produced by this wind farm operated by Valeco represents more than 14% of the annual consumption of the Fnac and Darty sites in France. Located in Occitania, this wind farm has 6 wind turbines with an installed capacity of 7.8 MW. The signing of a wind power purchase contract is the first step in this process of purchasing more renewable energy, which will intensify in 2022
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)	
☒ Energy Decarbonisation	Replacement of electricity taken from the network by that produced by the wind farm
☐ 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.*	Replacement of electricity taken from the network by that produced by the wind farm	-857,1 teqCO2
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:
Fnac Darty directly purchased the guarantees of origin for the wind farm, for production in 2020 of 18,714 MWh. Considering an emissions factor of 0.0599 kgCO2eq / kWh for electricity from the French grid and an emissions factor of 0.0141 kgCO2eq / kWh for the electricity produced by the wind farm, the annual gain in CO2 emissions rises at 857.1 teqCO2

Modality of verification of the quantification.	**Calculation standard used (ADEME base, GHG protocol, etc.):** base ADEME **Verification of the calculation (internal or external):** Verification mission of an independent third-party organization (OTI) certified by COFRAC, in February 2021 - conclusion of moderate assurance
Other environmental and social benefits of the project	This project contributes to SDG 13 Measures relating to the fight against climate change: by using less carbon-intensive wind energy, the project reduces the company's carbon footprint.
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 **Remarques :** Ongoing project
Capacity and conditions of the project reproducibility, with associated climate impact mitigation potential	For Fnac Darty, the signing of this first Power Purchase Agreement paves the way for other direct contracts with renewable electricity producers, as part of a strengthening of its responsible purchasing policy for its energy supplies.
Amount of investment made (in €)	76,000€
Economic profitability of the project (ROI)	☐ ST (0-3 years) ☐ MT (4-10 years) ☐ LT (> 10 years) **Remarks** : No ROI expected
Engaged partnerships	Solvay Energy Services, in its capacity as balance manager, supplier and aggregator of renewable energy, manages the electricity production of the wind farm and guarantees the regularity of the supply on behalf of Fnac Darty.
Open comments from the project owner	Fnac Darty has chosen not to use non-traceable Guarantees of Origin for its supply of renewable electricity. The Power Purchase Agreements, electricity purchase contracts between energy producers and electricity consuming companies, allow this traceability and ensure effective support for the renewable electricity sector. For the coming years, the Group aims to forge other partnerships with renewable energy producers, through several PPA schemes, in particular allowing additional renewable energy in the French grid.
Pour en savoir plus sur le projet	
Contact the company carrying the project	geraldine.olivier@fnacdarty.com
Project URL links	/
Illustrations of the project