

A new solar power plant to decarbonize the energy mix of Fnac Darty

FNAC DARTY

Fnac Darty and renewable energy producer Valeco signed a **Corporate Power Purchase Agreement for the production of a future solar photovoltaic park in the Centre-Val de Loire region**. With an installed capacity of 20MW, this future solar park, which will start generating electricity in 2023, will cover 16% of the annual energy consumption of Fnac Darty's sites in France and increase the share of renewable energies in the French energy mix.

Starting date of the project	Signing of the contract in February 2022 Commissioning date of the plant: during 2023																	
Project Localisation Places of implementation of the project at this stage and targeted geography if replicable.	Argent-sur-Sauldre (Centre-Val de Loire)																	
Project objectives Type of climate innovation of the project with a description of the problem/issue addressed	This long-term contract meets two objectives: to reduce the Group's carbon footprint and to secure part of Fnac Darty's electricity supplies by avoiding fluctuations in market prices.																	
Detailed project description	<p>In a responsible purchasing approach, the Group is increasingly sourcing renewable energy. To reduce the carbon footprint related to its energy consumption, Fnac Darty has chosen to use traceable guarantees of origin, through a direct power purchase agreements with a renewable energy producer (Power Purchase Agreements - PPA).</p> <p>After two contracts signed in 2019 and 2020 to purchase the production of existing power plants, the Group signed a Corporate PPA in early 2022 for the production of a future solar park in the center of France, which will be built and operated by Valeco. With an installed capacity of 20 MW, this future solar park will be built in 2023 and will cover about 16% of the annual energy consumption of Fnac Darty's sites in France.</p> <p>This project is part of the Group's commitment to reduce its CO2 emissions by 50% by 2030 (compared to 2019 – on scope 1 and 2). With this Corporate PPA, this commitment takes on an even stronger dimension, since this contract will not only decarbonize Fnac Darty's electricity supplies, but also contribute to increase the share of renewable energy in the French energy mix thanks to the construction of a new solar power plant.</p>																	
Main project's drivers for reducing the greenhouse gas emissions Enter the information in the appropriate boxes	<table border="1"> <thead> <tr> <th data-bbox="472 1592 986 1621">Reduction levers</th> <th data-bbox="986 1592 1481 1621">Details on the aspects of the project</th> </tr> </thead> <tbody> <tr> <td data-bbox="472 1621 986 1675"> <input type="checkbox"/> Energy and resource efficiency (including behaviour) </td> <td data-bbox="986 1621 1481 1675"></td> </tr> <tr> <td data-bbox="472 1675 986 1765"> <input checked="" type="checkbox"/> Energy Decarbonisation </td> <td data-bbox="986 1675 1481 1765"> Construction of a new photovoltaic power plant in France and injection of electricity from renewable sources into the French grid </td> </tr> <tr> <td data-bbox="472 1765 986 1794"> <input type="checkbox"/> Energy efficiency improvements </td> <td data-bbox="986 1765 1481 1794"></td> </tr> <tr> <td data-bbox="472 1794 986 1823"> <input type="checkbox"/> Improving efficiency in non-energy resources </td> <td data-bbox="986 1794 1481 1823"></td> </tr> <tr> <td data-bbox="472 1823 986 1877"> <input type="checkbox"/> Emissions absorption: creation of carbon sinks, negative emissions (BECCS, CCU/S, ...) </td> <td data-bbox="986 1823 1481 1877"></td> </tr> <tr> <td data-bbox="472 1877 986 1930"> <input type="checkbox"/> Financing low-carbon producers or divestment from carbon assets </td> <td data-bbox="986 1877 1481 1930"></td> </tr> <tr> <td data-bbox="472 1930 986 1980"> <input type="checkbox"/> Reduction of other greenhouse gases emission </td> <td data-bbox="986 1930 1481 1980"></td> </tr> </tbody> </table>	Reduction levers	Details on the aspects of the project	<input type="checkbox"/> Energy and resource efficiency (including behaviour)		<input checked="" type="checkbox"/> Energy Decarbonisation	Construction of a new photovoltaic power plant in France and injection of electricity from renewable sources into the French 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		
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Emission scope(s) on which the project has a significant impact and quantification of GHG emission reductions per emission scope

Indicate the aspects of the project that contribute to the reduction of emissions per category of emissions considered (left-hand column) and the quantification of associated emissions.

Indicate the main hypotheses and calculation steps in the intended section (below the table)

For further details, please refer to the methodology guidelines.

	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 .
Reducing the company's dependence on carbon		
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>	Production of electricity from renewable sources (solar photovoltaic)	- 860 tCO ₂ e / an
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>		
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: Fnac Darty will directly purchase the guarantees of origin of the future photovoltaic park, for production that will start in 2023. This will represent about 20MW per year, or around 16% of Fnac Darty's electricity consumption in France.

In accordance with the "market-based" methodology and the recommendations of the GHG Protocol, we consider an emission factor of 43 gCO₂eq/kWh in scope 2 for electricity on the French grid (residual mix, source AIB 2020 from data provided by RTE), and an emission factor null for the electricity produced by the photovoltaic park. The annual gain in CO₂ emissions will amount to 860 tCO₂e/year on scope 2 (20MW*0,043/1000).

The calculation carried out takes into account the emissions related to the electricity production phase; it does not take into account other indirect emissions related to energy (scope 3), i.e. upstream emissions, the losses of the grid and the depreciation of the manufacture of the plants.

Modality of verification of the quantification.

Calculation standard used (ADEME base, GHG protocol, etc.): Fnac Darty reports its GHG emissions related to its electricity consumption in "market-based". In accordance with the recommendations of the GHG Protocol, the emission factor of electricity in France is that of the residual mix (consumption mix from which are subtracted the guarantees of origin used in France to certify the renewable origin of consumption in the context of green offers), updated each year by the AIB based on data provided by RTE.

Verification of the calculation (internal or external): The Group's energy-related CO₂ emissions are audited by KPMG, a third-party body independent of Fnac Darty, as part of its work to verify the information in the Group's non-financial performance statement.

Project maturity level

Tick the corresponding current maturity level

Fnac Darty and Valeco were particularly thorough regarding the protection of biodiversity to develop this project. With an area of 20 hectares, the future solar park will be developed on a former agricultural land that the municipality has transformed to accommodate an industrial project. Valeco has chosen to keep the initial agricultural activity by deploying a beekeeping activity around the black bee of Sologne as well as a sheep pasture. For this, hedges will be created and the existing hedge will be reinforced both to participate in the landscape integration of the project and to strengthen ecological continuities. Local and attractive species for avifauna and pollinators will be selected (country maple, blood dogwood...).

For the entire project, Valeco will promote the development of local employment, for example by using local incubators and businesses. The company also undertakes to involve local professionals as a priority

	<p>for the maintenance of the vegetation of the site (breeder for grazing, rehabilitation association or company for the maintenance of green spaces, local fencer ...), as well as for the beekeeping activity set up. With this new project and the development of Valeco in the region, a new maintenance base is set to be deployed in the surrounding area.</p> <p>This project contributes to SDG 7 and in particular target 7.2: "By 2030, significantly increase the share of renewable energy in the global energy mix".</p>
<p>Project maturity level</p> <p>Tick the corresponding current maturity level</p>	<p> <input type="checkbox"/> Prototype laboratory test (TRL 7) <input type="checkbox"/> Real life testing (TRL 7-8) <input checked="" type="checkbox"/> Pre-commercial prototype (TRL 9) <input type="checkbox"/> Small-scale implementation <input type="checkbox"/> Medium to large scale implementation </p> <p>Remarks: The park is in the development phase and will see the light of day in 2023.</p>
<p>Capacity and conditions of the project reproducibility, with associated climate impact mitigation potential</p>	<p>This type of project is reproducible, subject to a long-term commitment. These long-term PPAs, by allowing the construction of new renewable electricity production plants, contribute to increasing the share of renewable energy in the French energy mix.</p> <p>In a responsible purchasing approach, Fnac Darty intends to continue to study future PPA projects for its purchases of electricity from renewable sources.</p>
<p>Amount of investment made (in €)</p>	<p>Not communicated</p>
<p>Economic profitability of the project (ROI)</p>	<p> <input type="checkbox"/> CT (0-3 years) <input type="checkbox"/> TM (4-10 years) <input type="checkbox"/> LT (> 10 years) </p> <p>Remarks: In a context of high volatility in energy market prices, the economic profitability of the project cannot be calculated.</p>
<p>Engaged partnerships</p>	<p>This contract is the second PPA signed between Fnac Darty and Valeco, after a first PPA for the production of a wind power plant located in Occitania (see "Supply of electricity of wind origin via the signature of a PPA - Ambition4climate").</p> <p>The electricity produced by the solar power plant will be injected into Solvay Energy Services' equilibrium perimeter before being redistributed to Fnac Darty's consumption sites.</p>
<p>Open comments from the project owner</p>	
<p>More about the project</p>	
<p>Contact the company carrying the project</p> <p>Please specify an ad hoc e-mail address that will allow the reader to contact the project company directly</p>	<p>geraldine.olivier@fnacdarty.com</p>
<p>Project URL links</p>	<p>/</p>
<p>Illustrations of the project</p> <p>3 photos/videos minimum (in HD format to be attached)</p>	