

A 100% hybrid/electric fleet



Piloting the initiative, the Sonepar Group's French unit has launched an ambitious project to convert its entire corporate fleet by 2022 and to equip its network of more than 500 locations with charging stations to accelerate the energy transition among employees and customers. An estimated 5,000 tCO₂e will be avoided.

Starting date of the project	November 2020	
Project Localisation Places of implementation of the project at this stage and targeted geography if replicable.	The pilot project was launched nationwide in France. The project to convert the fleet to hybrid/electric energy will be gradually rolled out across Sonepar's 43 host countries.	
Project objectives Type of climate innovation of the project with a description of the problem/issue addressed	Sonepar France's fleet consists of more than 2,000 'commercial' vehicles, which together account for 10% of its carbon footprint. The project therefore aims to reduce the fleet's carbon footprint by 30%. This reduction will result from the conversion of 100% of the fleet vehicles. An additional goal of the initiative is to set the example as a leader in the distribution of electrical products, helping to speed up the roll-out of this energy transition solution.	
Detailed project description	The pilot project launched in France includes: <ul style="list-style-type: none"> • A hybrid/electric fleet: roll-out of a hybrid/electric fleet for all employees who use a corporate car (around 2,000) by mid-2022. • Employee change management: a service offer encouraging employees to choose electric over hybrid solutions, with a corporate card for topping up their car at one of 20,000 charging stations across France, a long-distance vehicle rental option and a home charging station installation service. • Eco-driving: introduction of an eco-driving training course for all employees before they take the wheel of a corporate car. Trainees are given the information they need to reduce their energy consumption by some 10% to 20%. • Charging stations across the network: installation of around 1,800 charging stations across all Sonepar locations, including head offices, branches and logistics platforms. • Optimised energy management: implementation of a centralised management system for all the charging stations to optimise charging times and, in turn, the consumption level of the entire fleet. 	
Main project's drivers for reducing the greenhouse gas emissions	Reduction levers	Details on the aspects of the project
	<input checked="" type="checkbox"/> Energy and resource efficiency (including behaviour)	<ul style="list-style-type: none"> • Reduction of fossil fuel consumption • Car policy for employees • E-learning modules on the energy transition for all 5,000 employees • Eco-driving training for the 2,000 employees with a company car
	<input checked="" type="checkbox"/> Energy Decarbonisation	<ul style="list-style-type: none"> • Shifting from internal combustion to electric vehicles
	<input checked="" type="checkbox"/> Energy efficiency improvements	<ul style="list-style-type: none"> • Managing the network of charging stations to optimise consumption
	<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 checked="" type="checkbox"/> Reduction of other greenhouse gases emission	<ul style="list-style-type: none"> • Reduction of internal combustion vehicle NOx and CO emissions 	

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 <i>Please follow the quantification methodology used in the Afep guidelines.</i>
	Reduction of the company's carbon dependency		
	Scope 1 <i>Direct emissions generated by the company's activity.</i>	Reduction of fossil fuel consumption	-4,231 tCO ₂ e
	Scope 2 <i>Indirect emissions associated with the company's electricity and heat consumption.</i>	Electricity consumption from charging stations	+166 tCO ₂ e
	Scope 3 <i>Emissions induced (upstream or downstream) by the company's activities, products and/or services in its value chain.</i>	Reduction of upstream energy consumption	-1,028 tCO ₂ e
	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:		
Pre-project situation		Post-project situation	
Diesel consumption = 3,492,617 litres/year		Diesel consumption = 1,863,138 litres/year	
Electricity consumption = 0 MWh/year		Electricity consumption = 4,507 MWh/year	
Diesel emission factor = 2.51 kgCO ₂ /l		Diesel emission factor = 2.51 kgCO ₂ /l	
Upstream diesel emission factor = 0.657 kgCO ₂ /l		Upstream diesel emission factor = 0.657 kgCO ₂ /l	
Electricity emission factor = 0.395 tCO ₂ /MWh		Electricity emission factor = 0.3689 tCO ₂ /MWh	
Upstream electricity emission factor = 0.176 tCO ₂ /MWh		Upstream electricity emission factor = 0.176 tCO ₂ /MWh	
Initial CO ₂ emissions = 11,061 tCO ₂ e		Final CO ₂ emissions = 6,157 tCO ₂ e	
Broken down as follows: <ul style="list-style-type: none"> Scope 1 = 8,766 tCO₂e Scope 2 = 0 Scope 3 = 2,295 tCO₂e 		5,093 tCO₂e avoided as follows: <ul style="list-style-type: none"> Scope 1 = -4,231 tCO₂e Scope 2 = +166 tCO₂e Scope 3 = -1,028 tCO₂e 	
Modality of verification of the quantification.	Calculation standard used (ADEME base, GHG protocol, etc.): ISO 14064 and GHG Protocol		
Other environmental and social benefits of the project	Verification of the calculation (internal or external): Sonepar – internal		
	The Sonepar Group wants to accelerate progress on sustainable development objectives, particularly in terms of climate action and clean, responsible energy.		

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 checked="" type="checkbox"/> Small-scale implementation <input type="checkbox"/> Medium to large scale implementation Remarks: Test conducted on ten electric vehicles and 120 charging stations installed at different locations.
Capacity and conditions of the project reproducibility, with associated climate impact mitigation potential	Project in the process of being replicated in the 40 countries where Sonepar operates including Austria, Belgium, Brazil, France, Germany, Italy, UK, Mexico, Spain, Sweden, Switzerland, Netherlands and USA. An initial estimate of the potential reduction in the Group's footprint with a 25% EV/75% hybrid fleet is as follows: 33,000 tCO ₂ e
Amount of investment made (in €)	€5.3m in Opex → Roll-out of the hybrid/electric vehicle fleet of France €2.7m in Capex (€700k net of subsidies) → Installation of the charging station network of France
Economic profitability of the project (ROI)	<input checked="" type="checkbox"/> ST (0-3 years) <input type="checkbox"/> MT (4-10 years) <input type="checkbox"/> LT (> 10 years) Remarks click here to enter the information:
Engaged partnerships	Several partnerships have been established between Sonepar and Chargepoint, Schneider Electric, Legrand, and Hager.
Open comments from the project owner	/
More about the project	
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Project URL links	/
Illustrations of the project	Video 

