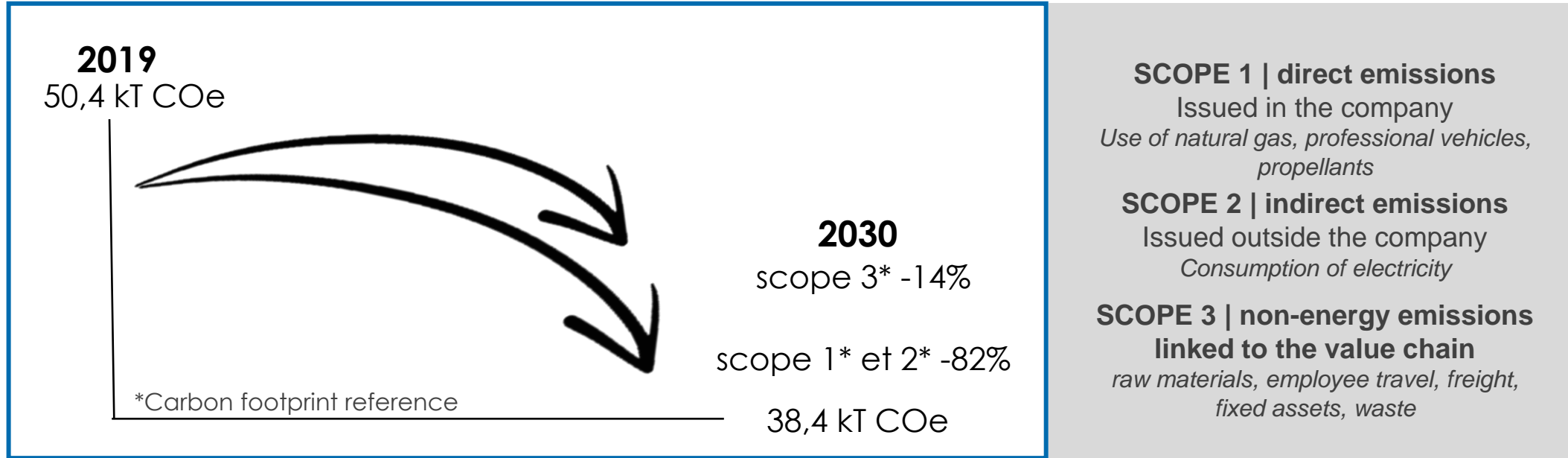


Aptar Le Vaudreuil / Val de Reuil is committed to reducing absolute GHG emissions by 2030



Priority actions have been identified in these areas:



Product design



Material processing



Fugitive emissions



Transport and packaging of goods

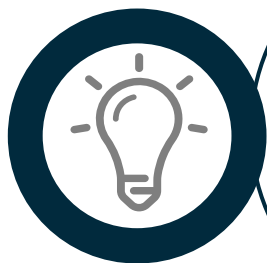


Employee travel



Infrastructure

Main focus areas



The use of plastic in the manufacturing of our components is responsible for 60% of our GHG emissions

Product design

Among the studies currently under way to reduce emissions:

- Removal of dyes from certain pump components
- Replacement of technical materials on certain products (POM => PP for pumps, ABS=> PP for BINAX)
- Implementation of Mass Balance materials (GSK, SANOFI, Grunenthal)
- Recycling of our products at end-of-life



Gas consumption for the VDR process represents 70% of the carbon footprint

Material processing

The priority will be to improve the energy efficiency of our facilities:

- Insulation of the LVC distribution network
- Regulation improvement of the process boiler room and LVC lines.

To reduce the quantity of waste and electricity consumption from component production, the following avenues are being explored:

- Direct injection
- Replacing hydraulic presses with electric presses
- Increasing the number of cavities per mold to limit consumption per molded part



Fugitive emissions represent the site's second largest carbon emissions item (12% of BC)

Fugitive emissions

As the priority subject of the decarbonization plan, actions implemented or initiated:

- Substitution of 134a for 152a with a lower GWP
- Installation of a 152a filling line in the R&D laboratory

Actions to be deployed :

- Project underway to create a gas recovery tank
- Pooling of gas distribution between the R&D and dose control laboratories
- Recover gases remaining in used flasks at the end of tests (currently incinerated)
- Study the feasibility of packaging test vials with less gas



Freight and packaging are the third largest source of emissions, accounting for a significant share of the BC total

Transport and packaging of goods

Several initiatives are underway:

- Removal of air freight for customer Emergent
- Increase in container fill rate (from 22 to 30 pallets)
- Customer Damistar to take responsibility for transport
- Biogas truck for transport to GSK Evreux
- Elimination of inter-site mail shuttles
- 100% reuse of Vaudreuil cardboard boxes at Val de Reuil

Next steps :

- Develop biogas transport (inter-site pallet shuttle, transport to ATA, transport to Le Havre)
- Reuse/resell cardboard boxes on a larger scale and externally by removing the Aptar logo



Reducing emissions linked to employee mobility is important to promote all the decarbonization actions carried out

Employee travel

Despite significant use of sustainable transport by some employees, the associated reduction in carbon emissions is not calculated.

The priority actions in this area are:

- Deploy tools to measure transport habits more accurately
- Develop means of communication around existing solutions
- Encourage the use of these means of transport (participation, infrastructure development, partnerships with cities and external players)



The choice of a hydroelectric power supply has led to a massive reduction in GHG emissions

Infrastructure

Today, 60% of this item's emissions are attributable to the use of gas for buildings heating. Some of our facilities are ageing, resulting in high energy consumption. Several actions are under study:

- Substitution of gas for building heating and electrification of heat production
- Adapting the heating network to low temperatures
- Development of heat recovery
- Reducing heating and cooling requirements in tertiary and production areas