



VDL VDS Technische Industrie CO2 net zero reduction strategy

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KRACHT DOOR SAMENWERKING



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Our philosophy

The global effects of climate change have long made themselves felt in the form of increasingly frequent weather extremes such as droughts, heatwaves and torrential rain.

To avoid the most far-reaching consequences, some of the most pressing tasks of our times include a reduction in CO2 emissions and limiting global warming to well below two degrees Celsius, if possible to a maximum of 1.5 degrees Celsius, in line with the Paris Climate Agreement.

As a global producer we at VDL-VDS have a continuous responsibility to make our contribution to climate protection and to be a role model in our collaboration with our suppliers.

We are putting VDL VDS on the right path with operational measures as part of our sustainability program.

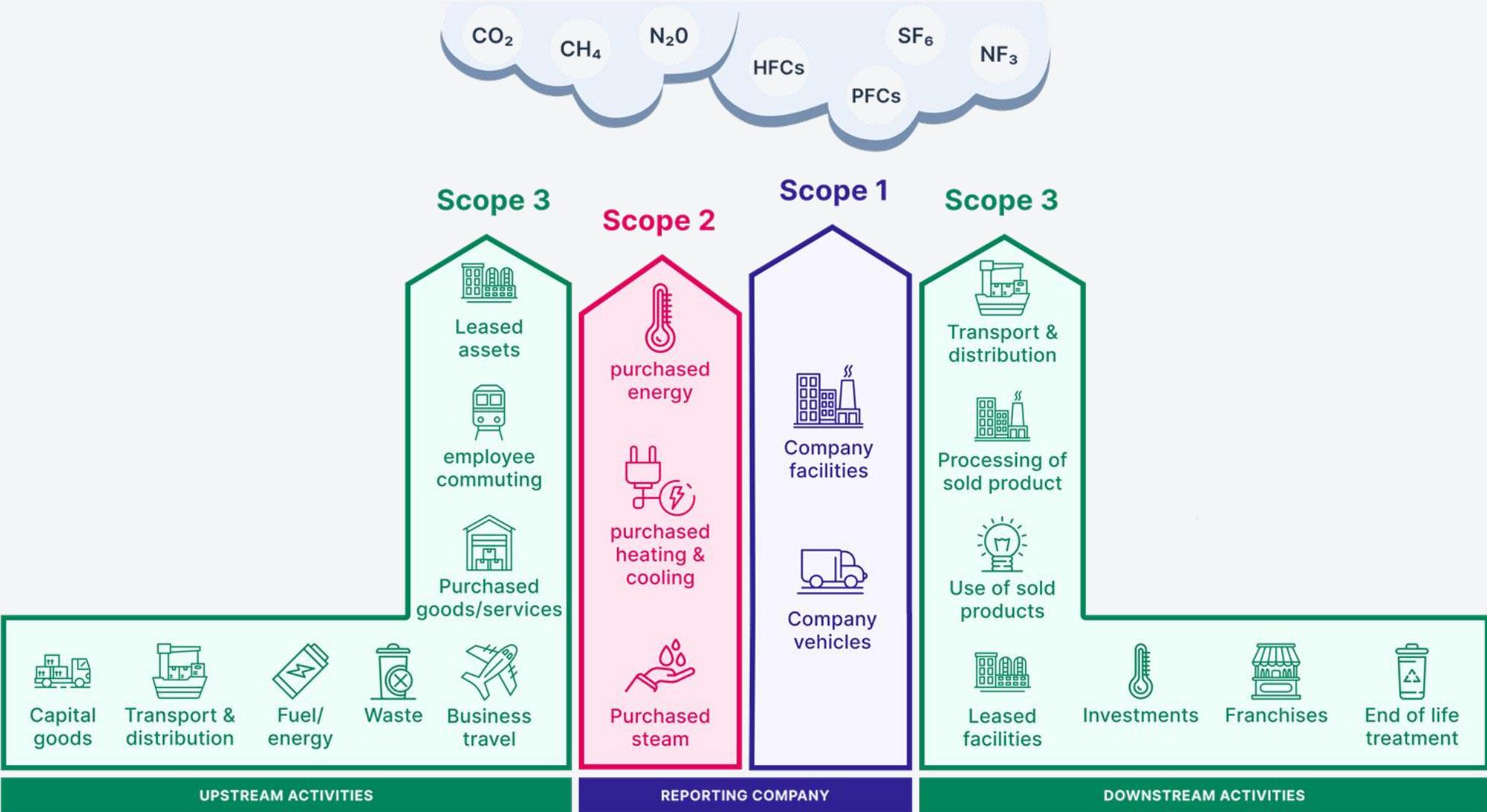


Definition of the term CO2 net zero reduction

The term net zero means achieving a balance between the carbon emitted into the atmosphere, and the carbon removed from it. This balance – or net zero – will happen when the amount of carbon we add to the atmosphere is no more than the amount removed.

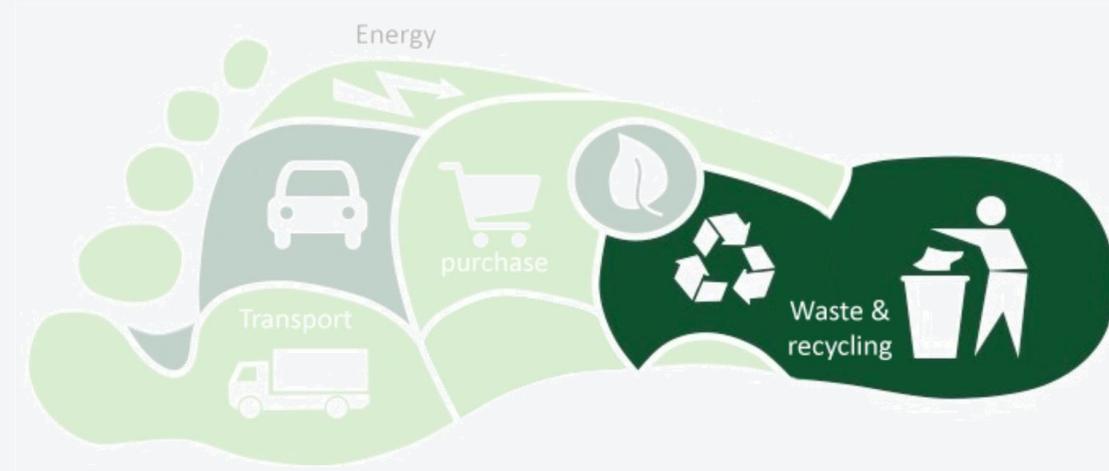


Overview of the scopes



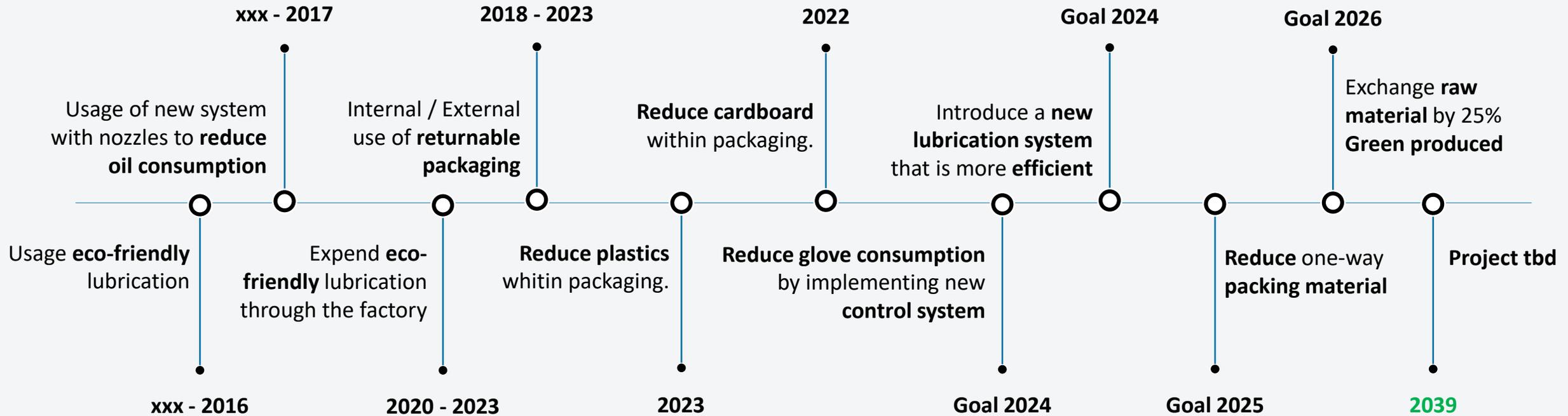
Scope 1

Direct Emissions from Operation



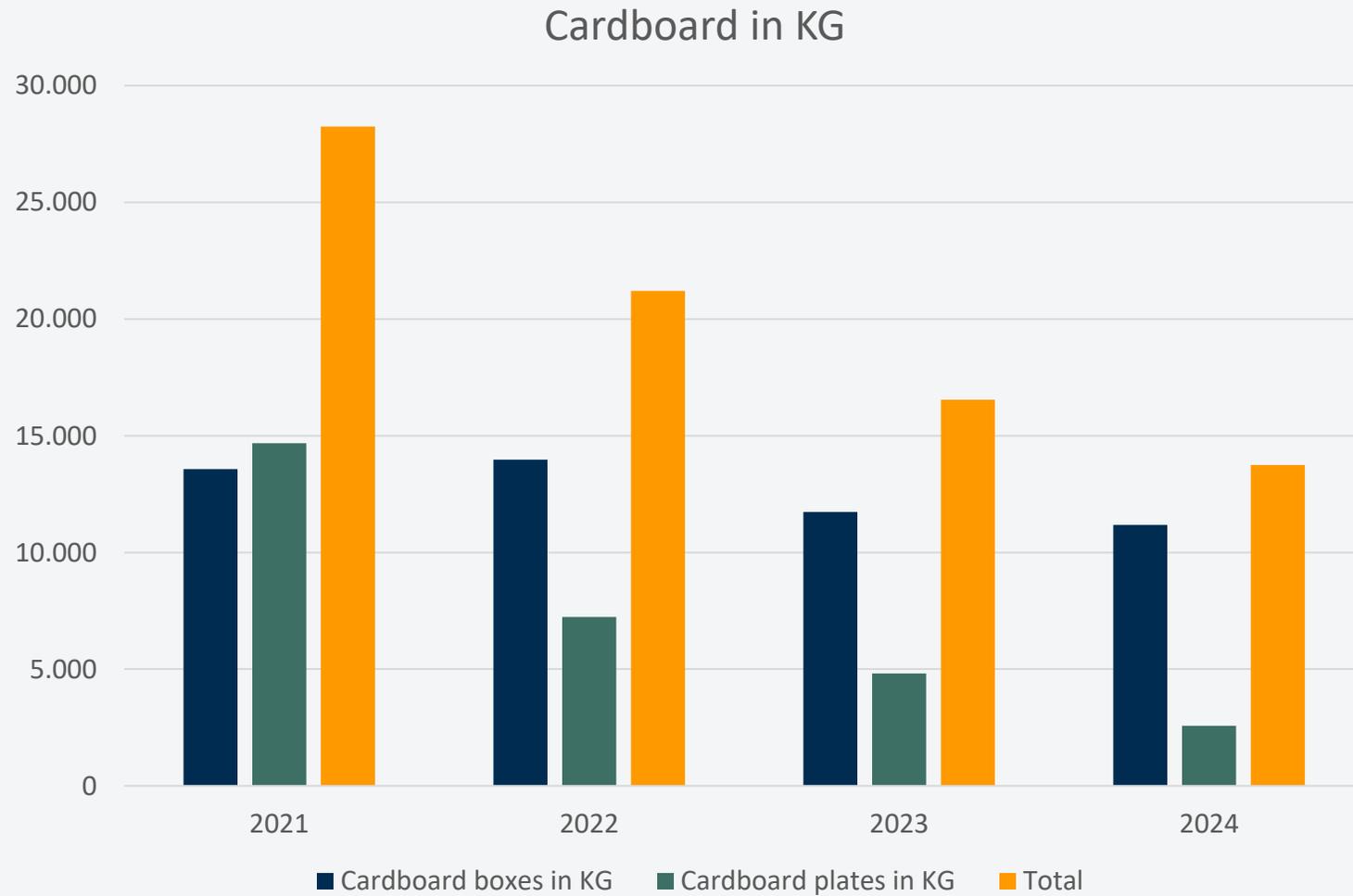
Waste situation

Waste – actions performed and targets



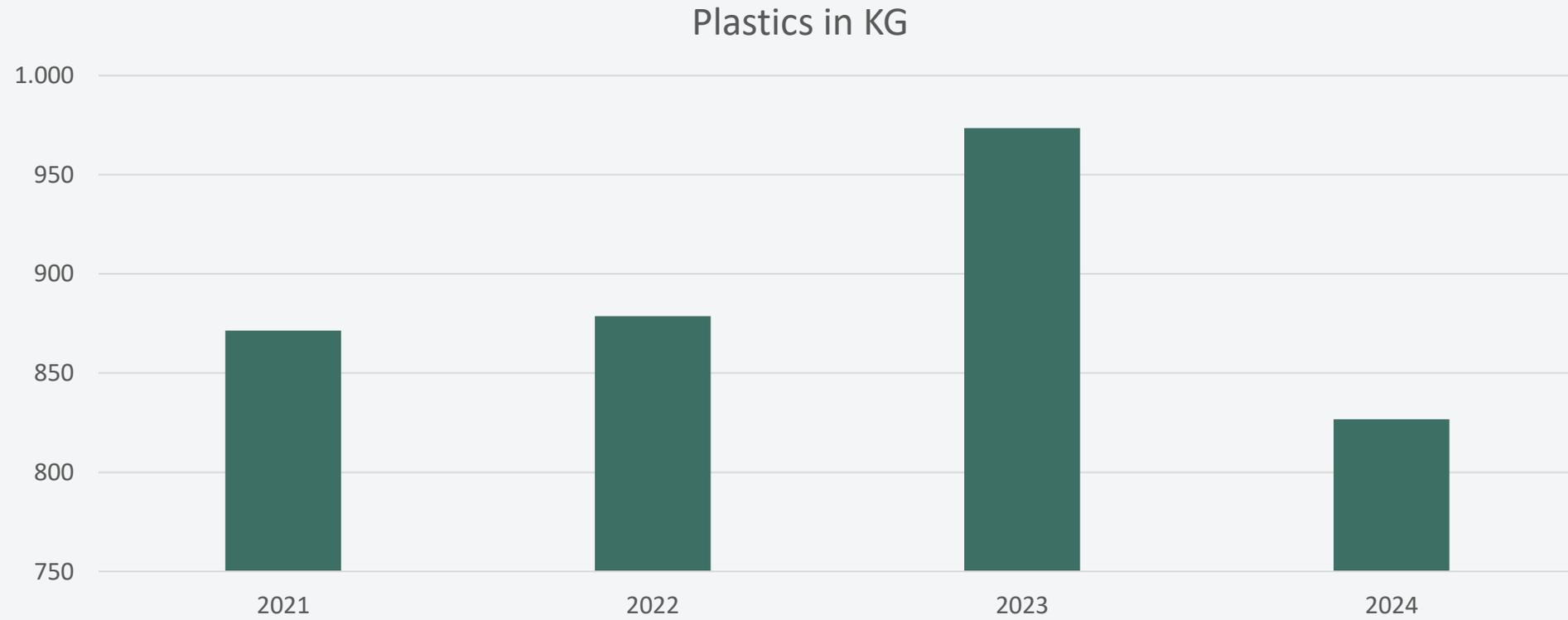
Waste situation

Cardboard



Waste situation

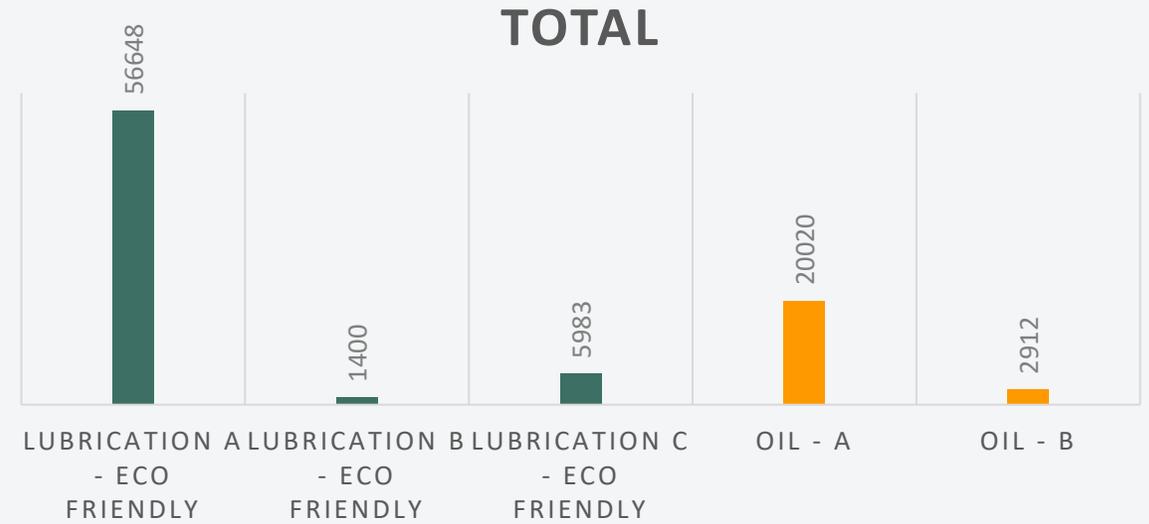
Plastics



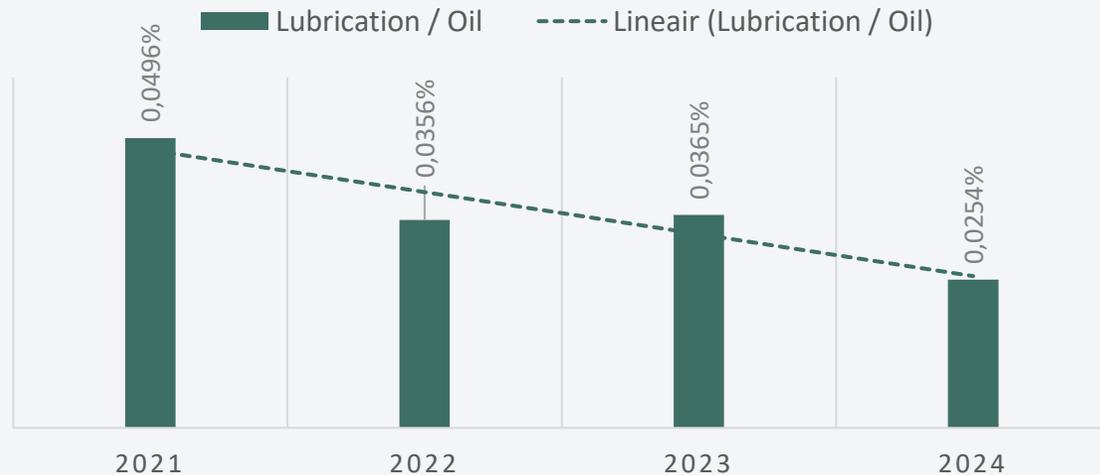
Waste situation

Lubrication / Oil

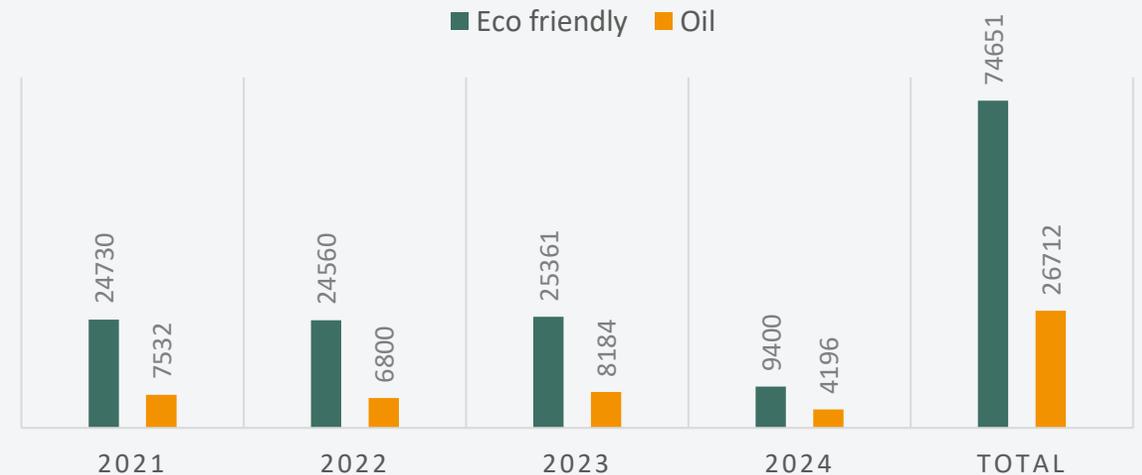
	Lubrication A - Eco friendly	Lubrication B - Eco friendly	Lubrication C - Eco friendly	Oil - A	Oil - B
2021	15830	800	1400	6700	832
2022	16200	400	2200	5760	1040
2023	16018	200	1583	7560	624
2024	8600	0	800	3780	416
Total	56648	1400	5983	20020	2912



LUBRICATION / OIL



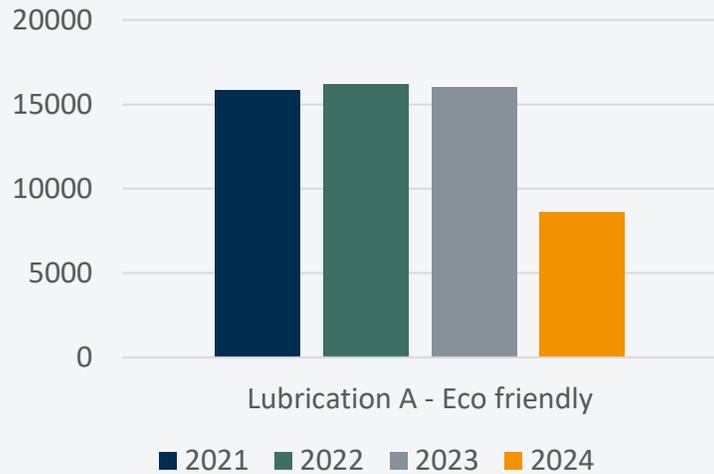
TOTAL ECO FRIENDLY / OIL



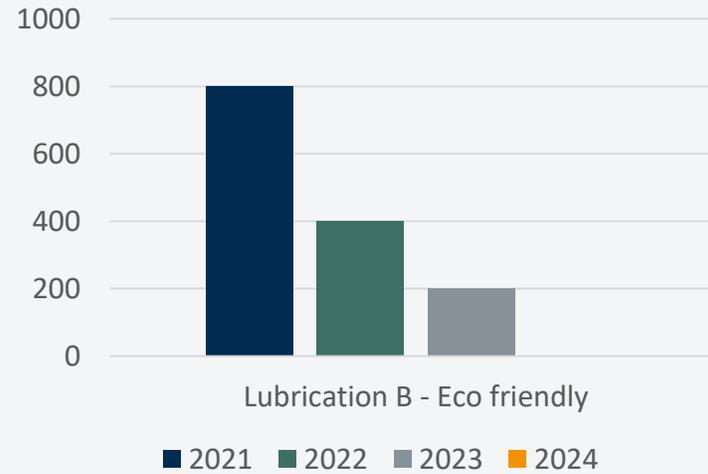
Waste situation

Lubricants / Oil

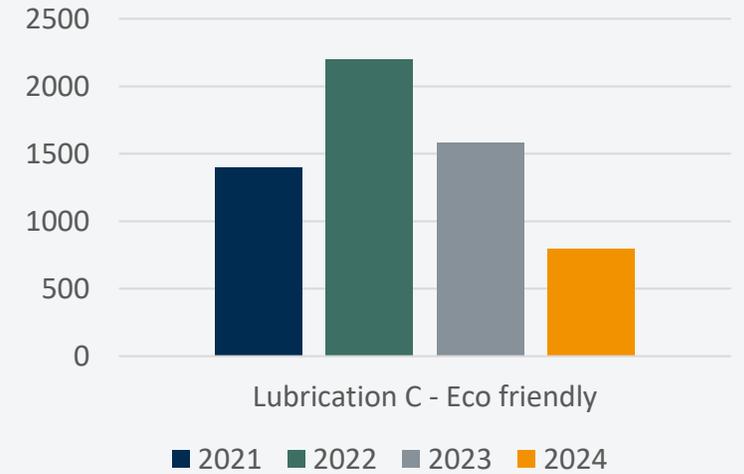
Lubrication A - Liters



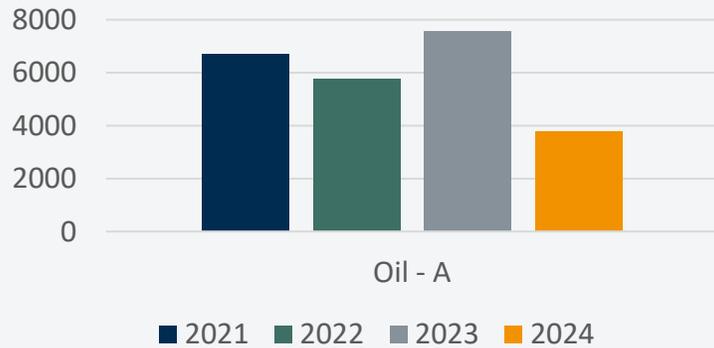
Lubrication B - Liters



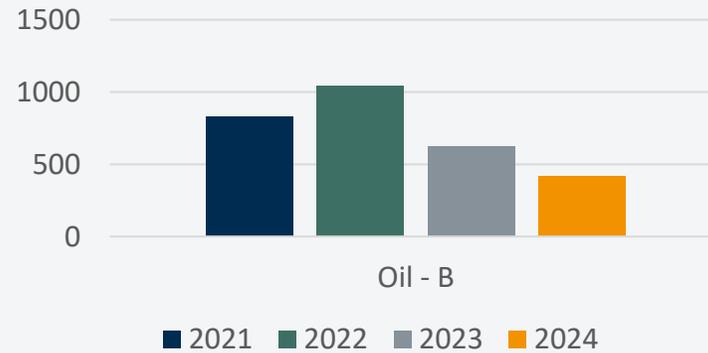
Lubrication C - Liters



Oil A



Oil - B

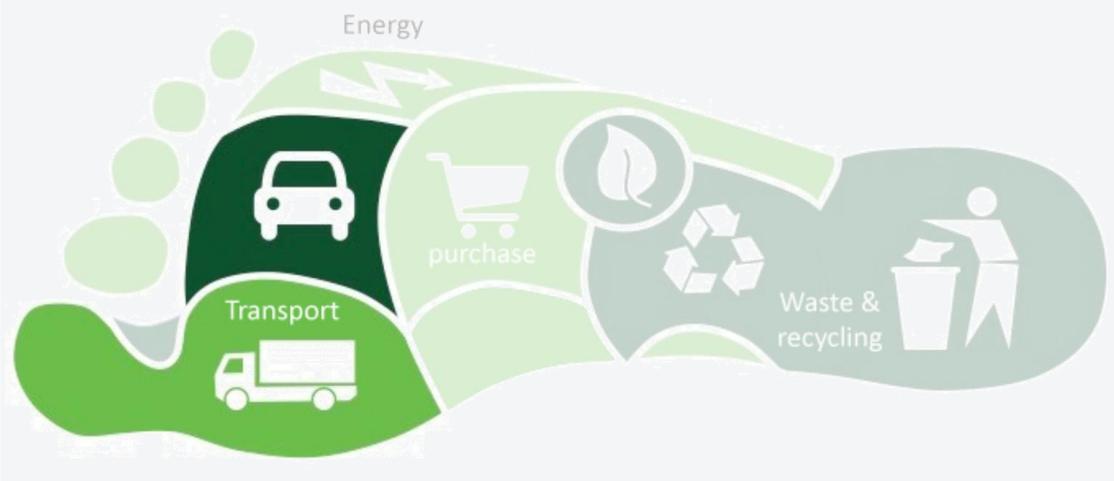


Waste situation

Waste - Potential improvements

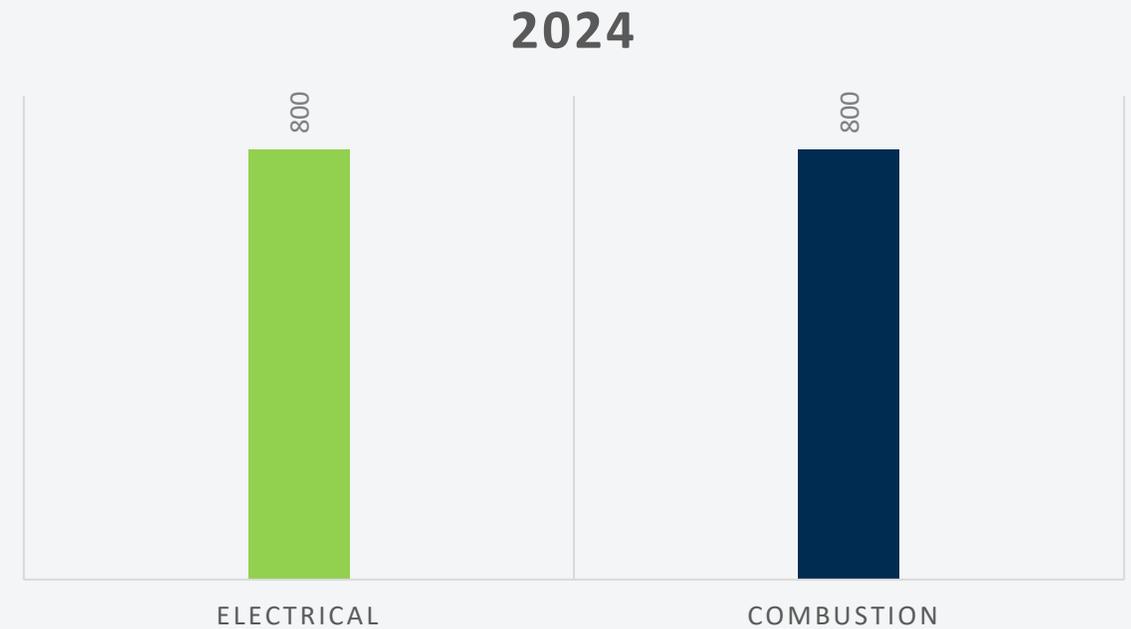
- Implement reusable packaging, for parts that are shipped in disposable packaging.
- Implement an improved lubrication system to reduce the amount of lubrication.

Transportation



Self-arranged transportation

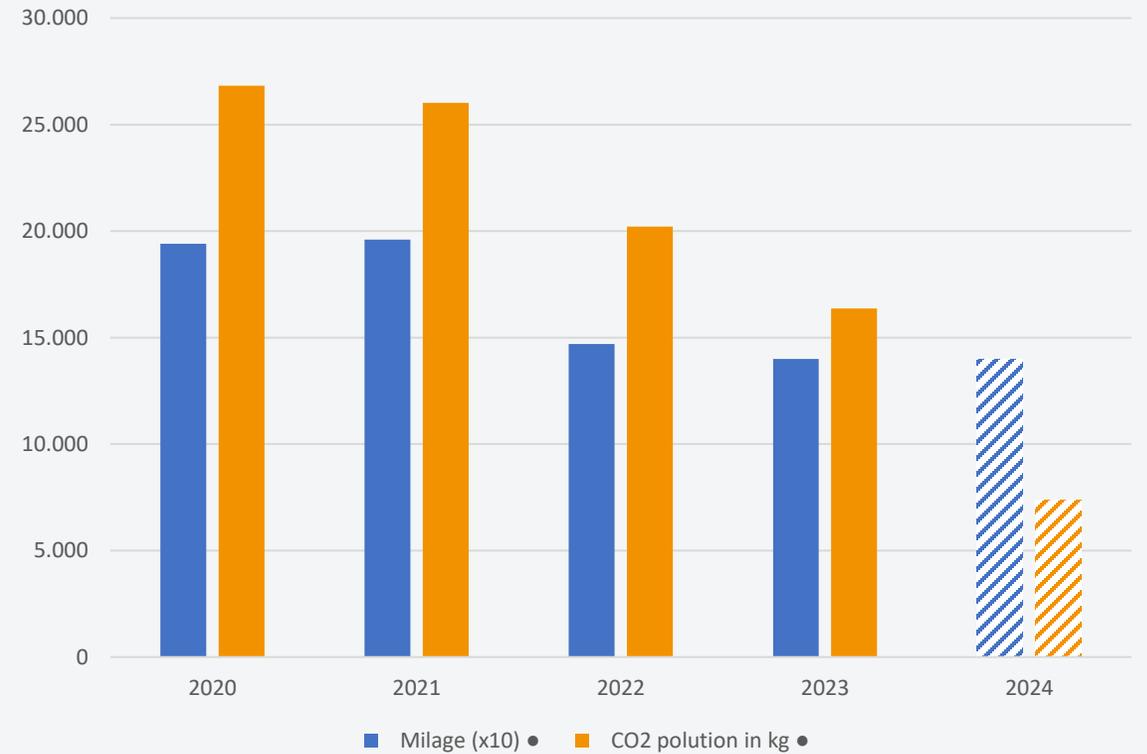
Collaboration with outsourced transport company (currently 50%).



Company owned cars

CO₂ pollution in 2024

	Total Cars	EV's	Milage (x10) ●	CO2 polution in kg ●
2020	6	0	19.400	26.831
2021	6	0	19.600	26.027
2022	5	0	14.700	20.212
2023	5	1	14.000	16.370
2024	4	3	14.000	7.380



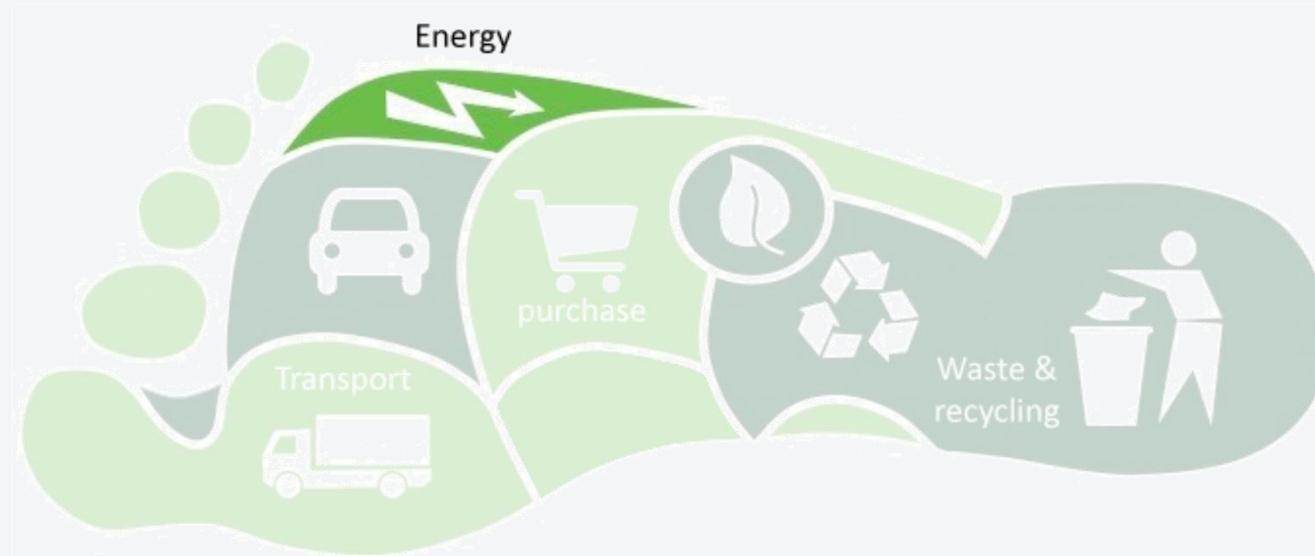
CO₂ pollution

Targeted actions to reduce CO₂ Pollution

- **(2021-Ongoing): Stimulating employees to use EV's or bicycle to commute to work;**
- **(2021-Ongoing): Find a possibility to travel together for business related trips;**
- **(2021-2023): Replace the most polluting company cars (goal achieved);**
- **(2022-2023): Stimulating the use of EV's by installing charging stations on site (goal achieved);**
- **(2022-Ongoing): Only travel when necessary. Majority of the meetings are held via Microsoft Teams;**
- **(2022-2024): 95% of our company cars should consist of EV's (goal achieved);**

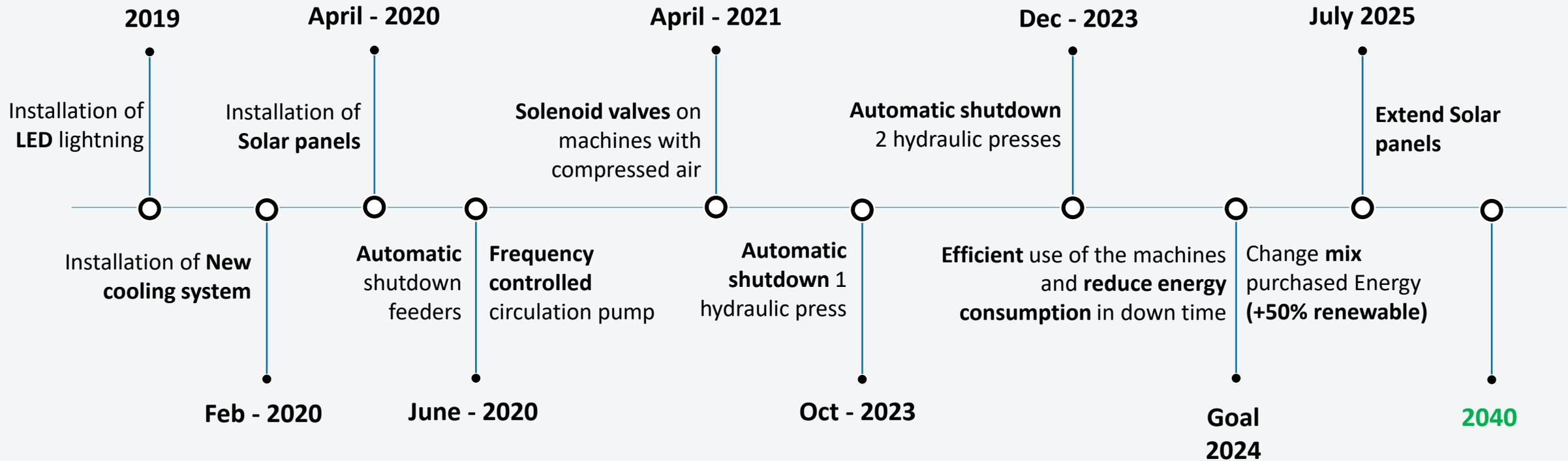
Scope 2

Indirect emission from purchased energy to operation



Energy situation

Electricity – actions performed and targets

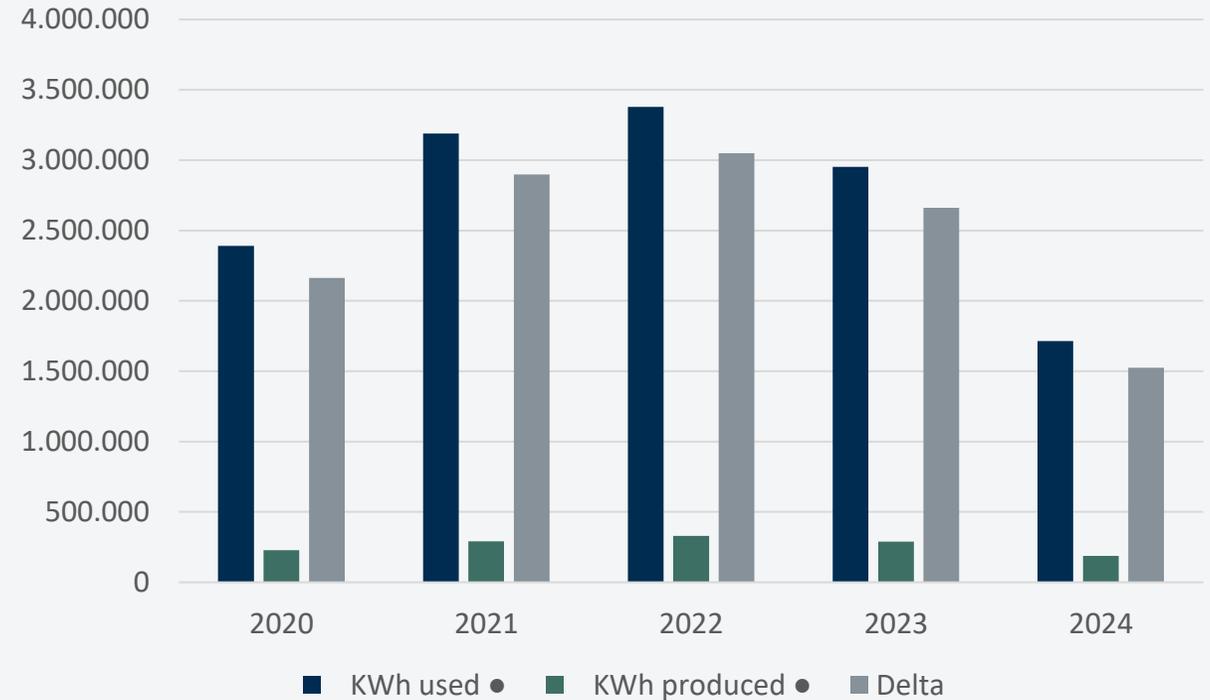
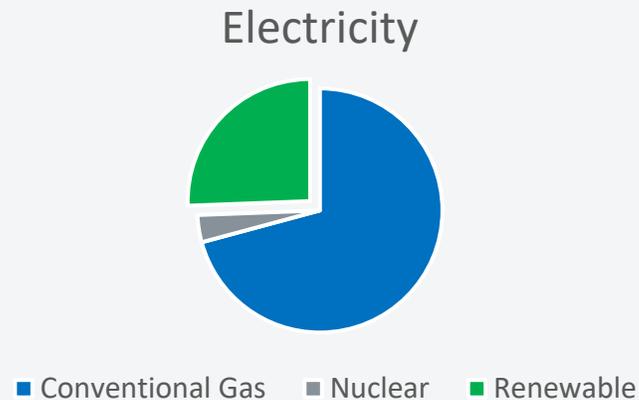


Energy situation

Electricity

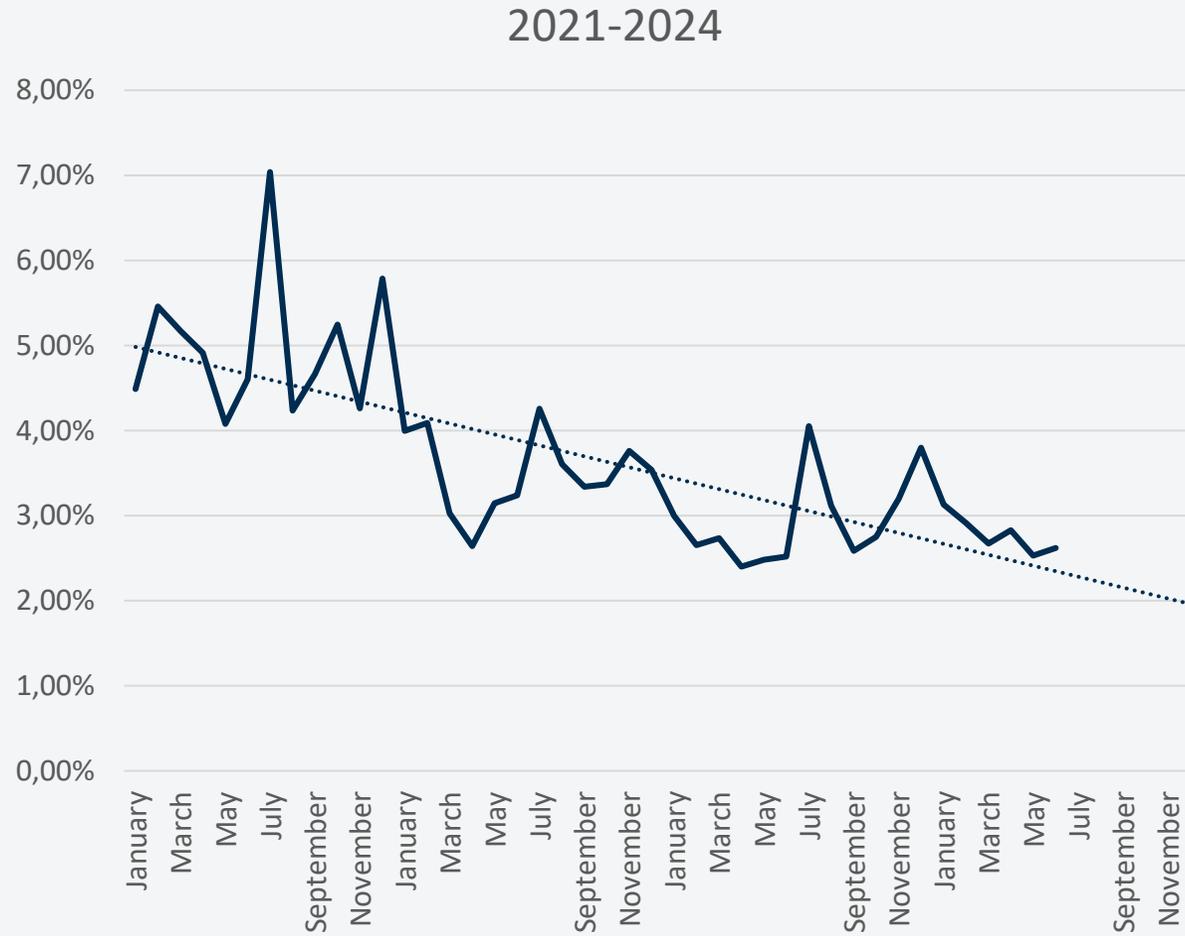
	KWh used ●	KWh produced ●	Delta
2020	2.390.405	228.136	2.162.269
2021	3.189.245	290.808	2.898.437
2022	3.379.340	330.507	3.048.833
2023	2.951.473	289.940	2.661.533
2024*	1.713.498	187.820	1.525.678

* Situation in 2024 is until August

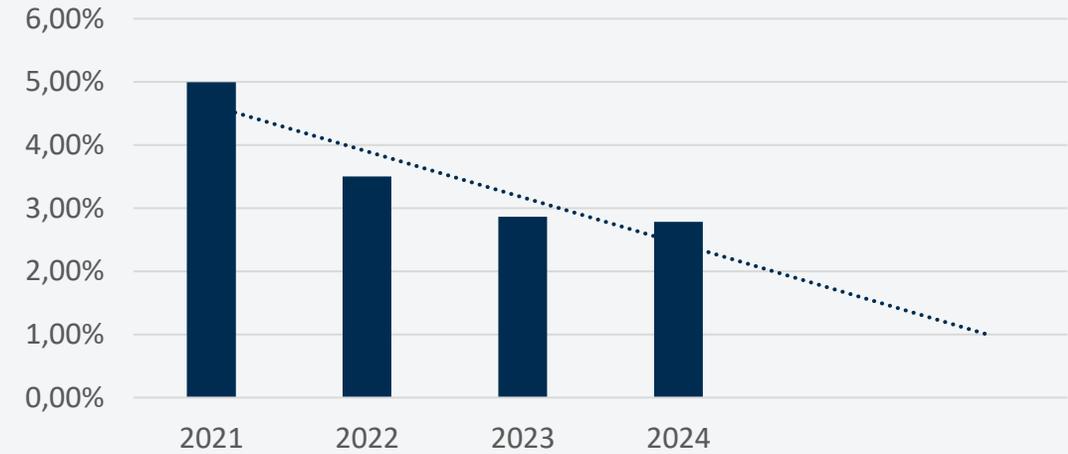


Energy situation

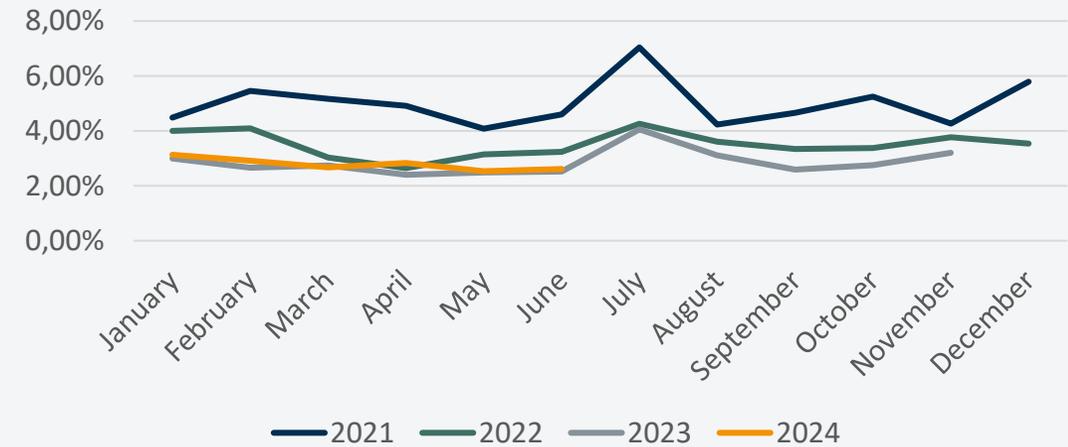
Electricity / Turnover ratio



Turnover / KWh



Turnover / KWh ratio



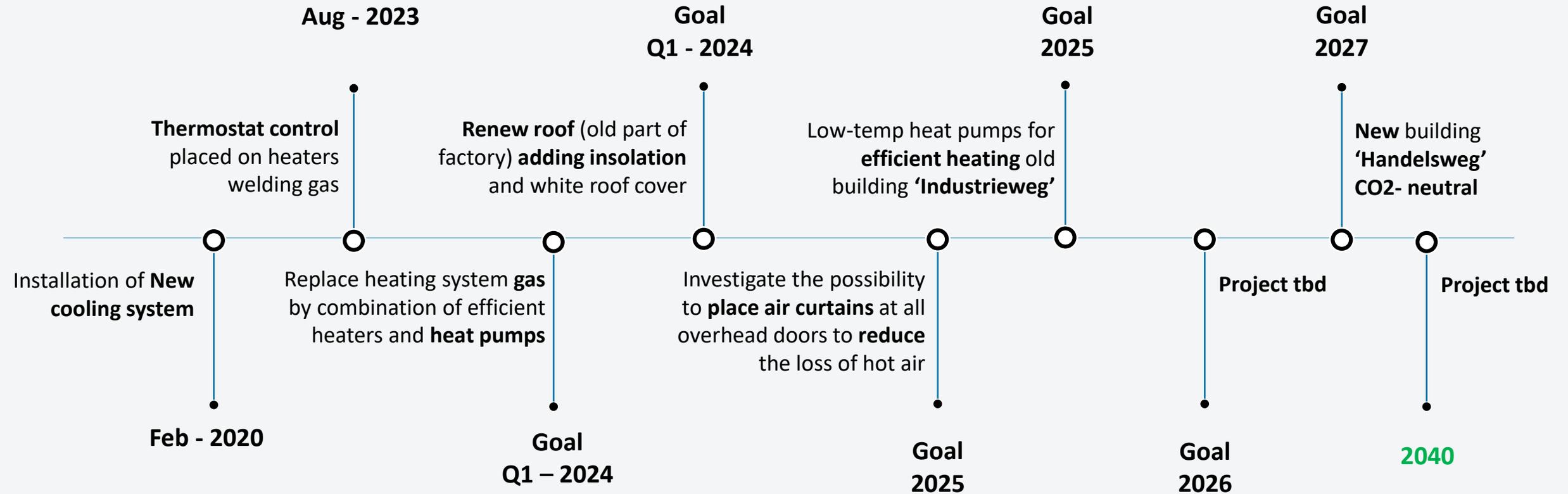
Energy situation

Electricity - Potential improvements

- Check the possibility to expand the number of solar panels.
- Check the possibility to use alternative methods to generate electricity.
- Check the possibility to exchange older pumps / engines with more efficient types.
- Install the automatic shutdown option on all hydraulic presses.
- Check for what machines it is interesting to install an automatic shutdown.
- Create a zero-emission location for the new building across the street.

Energy situation

Gas – actions performed and targets

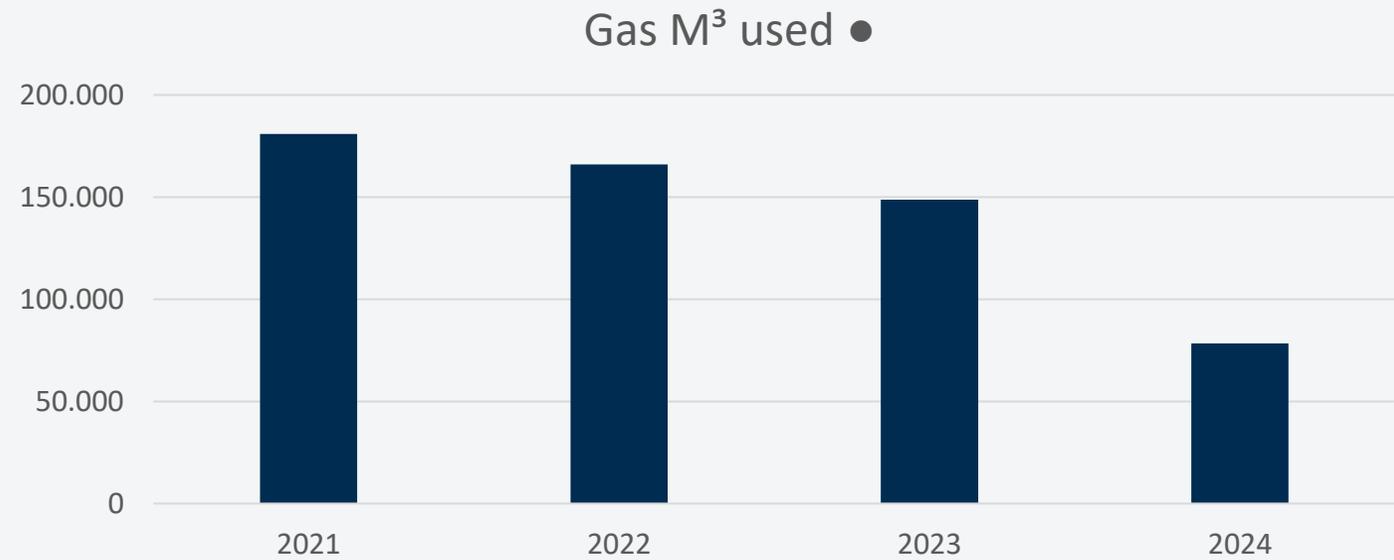


Energy situation

Gas

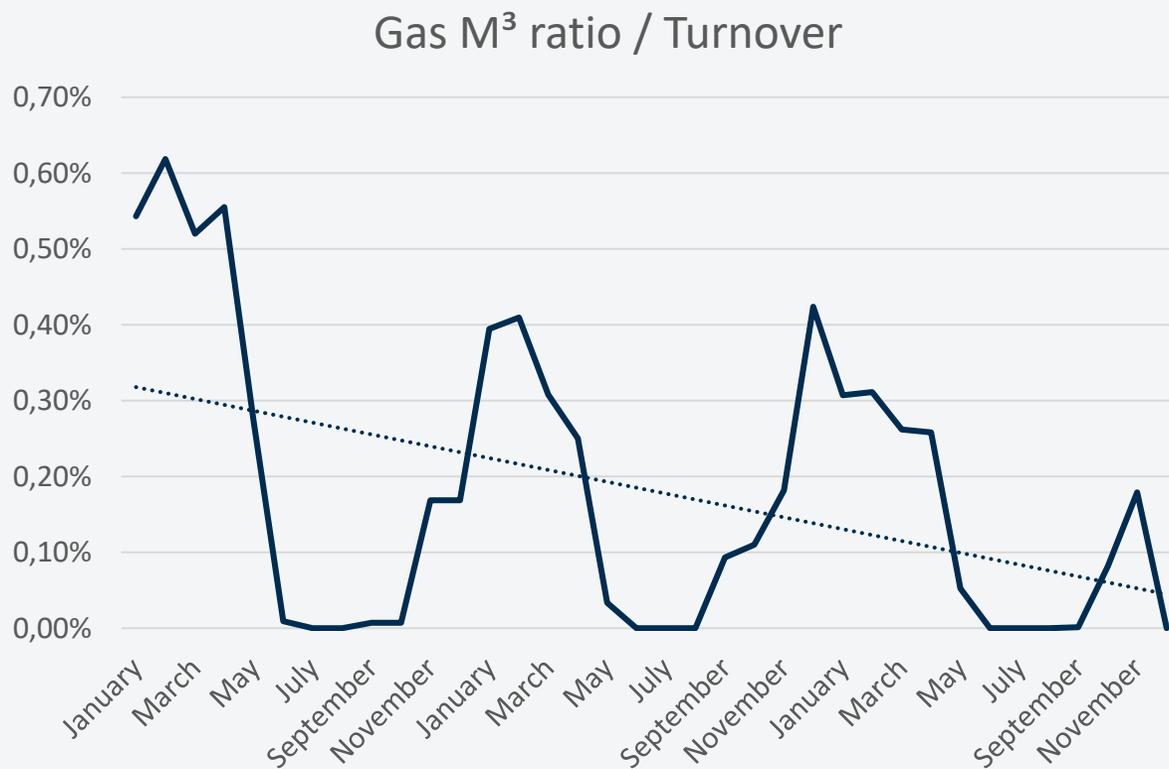
Gas M ³ used ●	
2021	180.906
2022	165.998
2023	148.718
2024*	78.355

* Situation in 2024 is until August

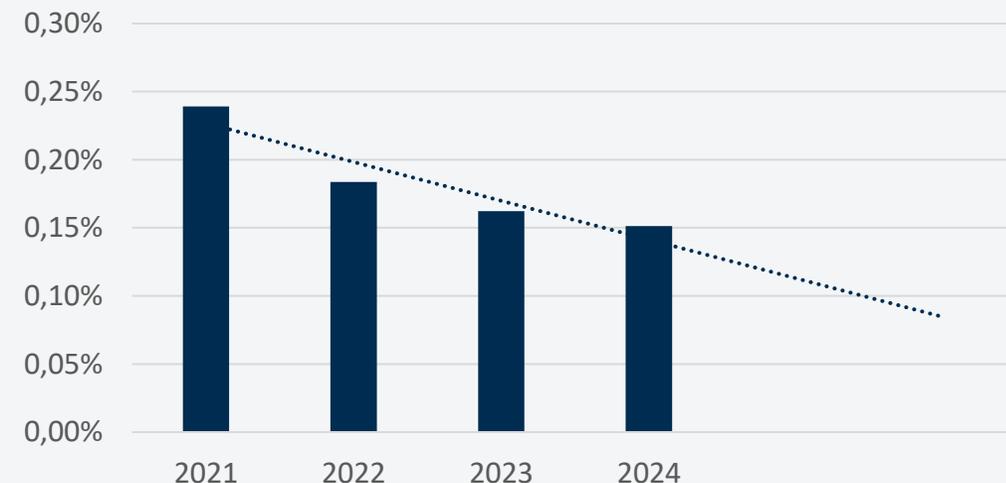


Energy situation

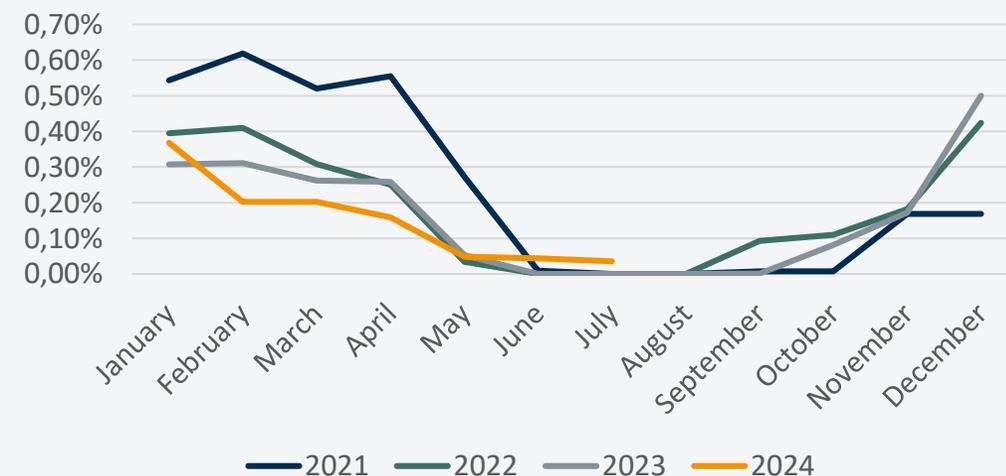
Gas / Turnover ratio



Turnover / Gas M³ ratio



Turnover / Gas M³ ratio



Energy situation

Gas - Potential improvements

- Check the possibility to instal air curtains.
- Check the possibility to instal a more efficient heating system in the production areas.
- Create a zero-emission location for the new building across the street.

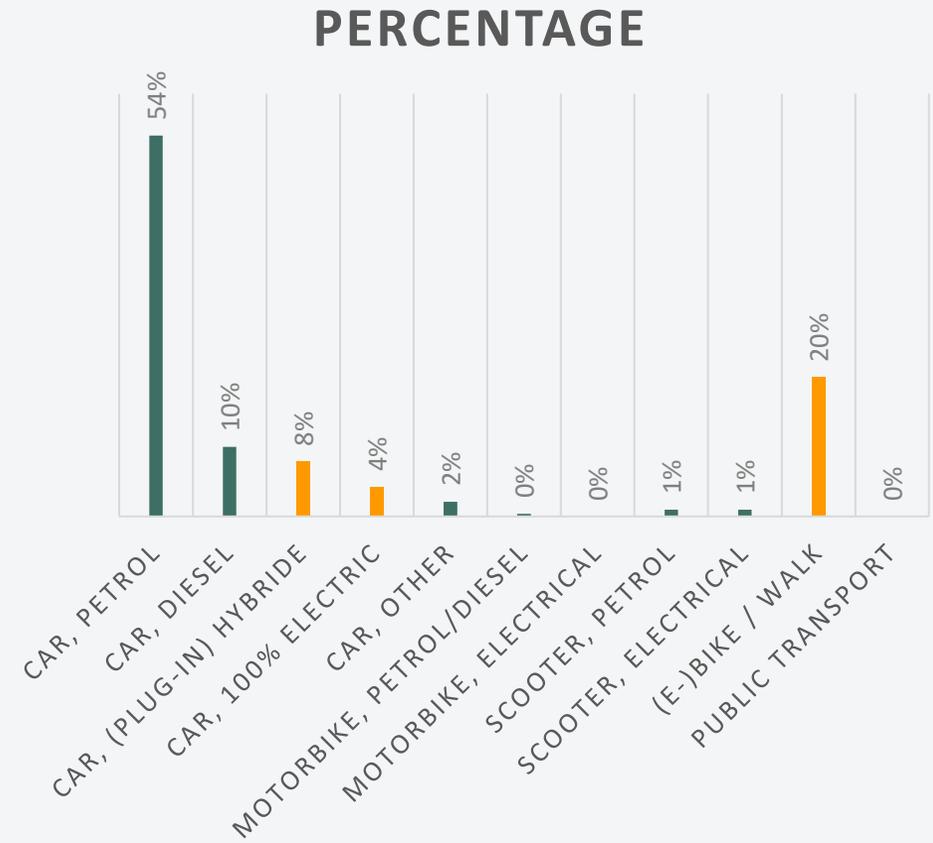
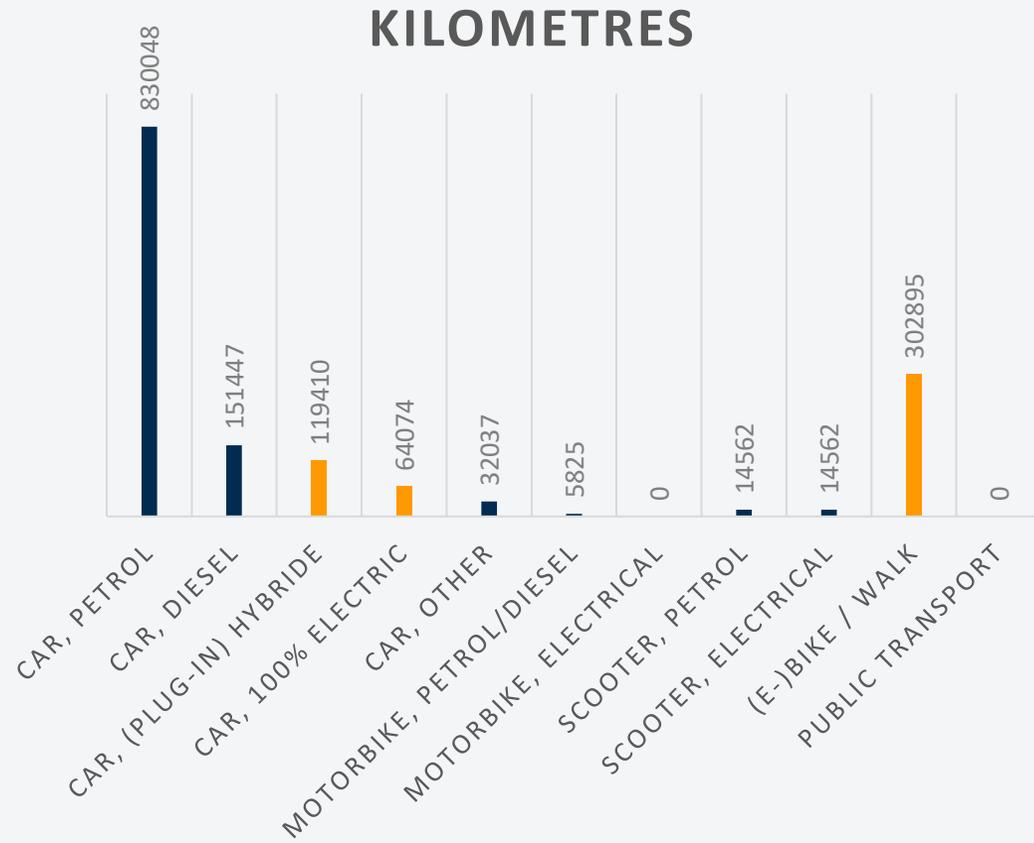
Scope 3

All other in direct emissions from purchased services & goods

- Encourage own personnel to use carbon free vehicles / transpiration to go to work
- Encourage our customers to use carbon free vehicles for their transports.
- Encourage our customers to use reusable packaging.
- Encourage our suppliers to use carbon free vehicles for their deliveries
- Encourage our supplier to reach the targets for carbon free production of the complete supply chain (scope 1,2,3).

Scope 3

Transportation own personnel



Targets

General target:

- **Supply Chain Decarbonization targets (Scope 1, 2,3)**
 - - 40% in 2030
 - - 60% in 2035
 - - 100% in 2040

Scope 1:

- 100% use electrical vehicles of company cars in 2030

Scope 2:

- Increase the amount of renewable energy from 25% to 50% in 2030
- Increase the amount of renewable energy from 50% to 100% in 2040

Scope 3:

- 40% use of CO2 neutral materials in 2030
- 60% use of CO2 neutral materials in 2035
- 100% use of CO2 neutral materials in 2040