## Detail of Energy Consumption within Logoplaste

	2019	2020	2021	2022	2023	2023 vs 2022 (%)	2023 vs 2019 (%)
LOGOPLASTE PLANTS	Energy (GJ)	Energy (GJ)	Energy (GJ)	Energy (GJ)	Energy (GJ)		
Total electricity purchased for consumption:	1 153 083	1 327 191	1 289 582	1 374 852	1 435 839	<b>4</b> %	25%
Electrical grid - brown electricity	969 570	1 096 618	908 619	863 361	826 671	-4%	-15%
Electrical grid - 100% green electricity	78 680	127 148	276 787	400 851	493 691	23%	527%
CHP systems (natural gas)	103 123	101 766	102 762	107 729	112 099	4%	9%
Photovoltaic panels	1 711	1 660	1 414	2 913	3 378	16%	97%
Total electricity self-generated and self-consumed from renewable sources:	0	2 263	2 894	3 688	6 238	69%	
Photovoltaic panels	0	2 263	2 894	3 688	6 238	69%	
Total fuel consumption from non-renewable sources:	30 675	38 066	35 797	52 622	54 007	47%	76%
Natural gas - heating, machinery	26 808	25 904	23 865	39 957	42 157	6%	57%
LPG - forklifts	2 502	3 422	3 914	3 928	3 652	-7%	46%
Red diesel consumption - forklifts	542	114	83	359	36	-90%	-93%
Diesel - company trucks	824	8598	7912	8 342	8 121	-3%	886%
Petrol	0	29	23	36	41	14%	
TOTAL	1 183 758	1 367 521	1 328 274	1 431 162	1 496 084	5%	26%

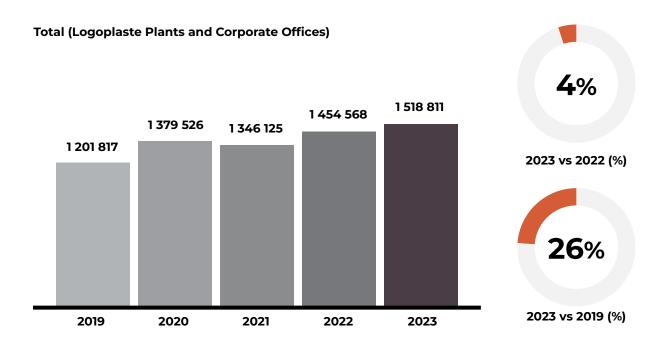
1

<sup>\*</sup>GJ - Gigajoules

## **Energy Consumption within Logoplaste**

	2019	2020	2021	2022	2023	2023 vs 2022 (%)	2023 vs 2019 (%)
CORPORATE OFFICES	Energy (GJ)	Energy (GJ)	Energy (GJ)	Energy (GJ)	Energy (GJ)		
Total electricity consumption:	8 615	4 307	10 256	13 690	11 343	- <b>17</b> %	59%
Electrical Grid - brown electricity	8 615	4 307	10 256	10 542	6 021	-43%	22%
Electrical Grid - 100% green electricity	0	0	0	3 148	5 322	69%	
Total electricity self-generated from renewable sources:	508	494	462	324	342	6%	-36%
Photovoltaic panels	508	494	462	324	342	6%	-36%
Total electricity sold from renewable sources:	508	494	462	324	342	6%	-36%
Photovoltaic panels	508	494	462	324	342	6%	-36%
Total fuel consumption from non-renewable sources:	9 444	7 698	7 595	9 712	11 384	17%	3%
Diesel for company cars	7 684	5 648	5 105	5 927	6 161	4%	-23%
Petrol for company cars	1760	2 051	2 490	3 785	5 223	38%	115%
TOTAL	18 059	12 006	17 851	23 402	22 727	-3%	26%

<sup>\*</sup>GJ - Gigajoules



## ENERGY CONSUMPTION TABLE AND THE METHODOLOGICAL PROCESS

In plants where energy data was not available, data was extrapolated from similar plants (same technology and raw materials) based on raw material consumption. For corporate offices where data was not available, data was extrapolated from other offices based on number of employees.

Some plants use steam provided by the customer, but consumption is not available as there are no meters installed. Based on information provided by the customers we estimated that steam represents less than 0.4% of the total electricity consumption.

The conversion factor used to convert kWh to GJ is 0.0036, as defined by the International Energy Agency (IEA). The formula:

## Energy (GJ) = Consumption (tons/year) \* LHV (MJ/kg)

was used to convert fuel consumption to GJ. We used the Density and LHV (low heating value) values available in DEFRA UK conversion factors database – Fuel properties. As fuel consumption represents a small percentage of our energy consumption, we didn't apply country specific conversion factors as the impact on the final results wouldn't be significant.