

Energy Consumption within Logoplaste

	2019	2020	2021	2022	2022 vs 2021 (%)	2022 vs 2019 (%)
LOGOPLASTE PLANTS	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	7%	19%
Electrical grid - brown electricity	969 570	1 096 618	908 619	863 361	-5%	-11%
Electrical grid - 100% green electricity	78 680	127 148	276 787	400 851	45%	409%
CHP systems (natural gas)	103 123	101 766	102 762	107 729	5%	4%
Photovoltaic panels	1 711	1 660	1 414	2 913	106%	70%
Total electricity self-generated and self-consumed from renewable sources:	0	2 263	2 894	3 688	27%	
Photovoltaic panels	0	2 263	2 894	3 688	27%	
Total fuel consumption from non-renewable sources:	30 675	38 066	35 797	52 654	47%	72%
Natural gas - heating, machinery	26 808	25 904	23 865	39 957	67%	49%
LPG - forklifts	2 502	3 422	3 914	3 928	0%	57%
Red diesel consumption - forklifts	542	114	83	363	338%	-33%
Diesel - company trucks	824	8598	7912	8370	6%	916%
Petrol	0	29	23	36	55%	
TOTAL	1 183 758	1 367 521	1 328 274	1 431 195	8%	21%

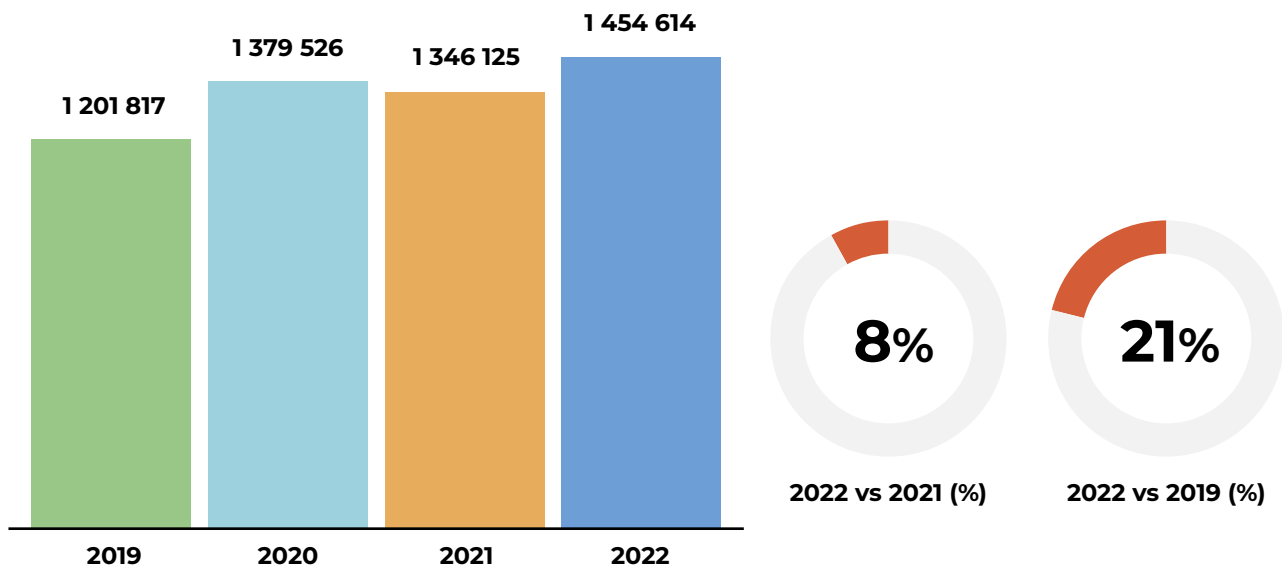
*GJ - Gigajoules

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CORPORATE OFFICES	Energy (GJ)	Energy (GJ)	Energy (GJ)	Energy (GJ)		
Total electricity consumption:	8 615	4 307	10 256	13 690	33%	59%
Electrical Grid - brown electricity	8 615	4 307	10 256	10 542	3%	22%
Electrical Grid - 100% green electricity	0	0	0	3 148		
Total electricity self-generated from renewable sources:	508	494	462	324	-30%	-36%
- Photovoltaic panels	508	494	462	324	-30%	-36%
Total electricity sold from renewable sources:	508	494	462	324	-30%	-36%
- Photovoltaic panels	508	494	462	324	-30%	-36%
Total fuel consumption from non-renewable sources:	9 444	7 698	7 595	9 729	28%	3%
- Diesel for company cars	7 684	5 648	5 105	5 947	16%	-23%
- Petrol for company cars	1 760	2 051	2 490	3 782	52%	115%
TOTAL	18 059	12 006	17 851	23 419	31%	30%

*GJ - Gigajoules

Total (Logoplaste Plants and Corporate Offices)



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.

WATER

For the wall to wall plants that don't have water meters or access to water readings, we estimate the water withdrawal based on similar plants (same technology, raw materials and refrigeration systems) and/or number of employees.

For corporate offices that don't have data on water withdrawal (shared building with no individual water meter) we estimate water withdrawal based on corporate offices with similar number of employees.