

Corporate carbon footprint 2017–2018 **ensian group**

according to Greenhouse Gas Protocol (GHG)

	CO ₂ factor KlimAktiv	Quantity 2017 [kWh/l/kg/pcs/ km]	"GHG emissions 2017 2018-03-27" [kg CO ₂ e]	Quantity 2018 [kWh/l/kg/pcs/km]	"GHG emissions 2018 2019-03-20" [kg CO ₂ e]	Emissions trend		
Scope 1	Direct emissions		191.553		200.829	4,8%		
	Heating oil consumption for tool construction [kWh] (stationary combustion)	0.267	0	0	0			
	Evaporation by cooling and refrigeration systems				20.885			
	Fleet1, diesel [litres] (mobile combustion)	2.513	71.479	66.124	166.156			
	Fleet1, petrol [litres] (mobile combustion)	2.226	1.373	5.368	11.951			
	Fleet1, natural gas [kg] (mobile combustion)	2.620	0	701	1.836			
Scope 2	Indirect emissions from purchased energy		2.953.824	3.195.184	0			
	Certified green electricity for Leutkirch plant 1 + 2; Probstzella and PV plant Fraureuth	0.000	2.953.824	3.118.938	0			
Scope 3	Indirect emissions from upstream and downstream processes		7.450.782		8.162.216	9,5%		
Scope 3.1	Purchased goods ("Cradle to Grave")		separate	178.541.244	6.432.449	191.430.952	7.009.309	9,0%
Scope 3.3	Fuel and energy-related emissions upstream chain				181.907		282.367	55,2%
	Petrol [litres] (upstream chain of fossil fuels)	0.474	1.373	559	5.368	2.545		
	Diesel [litres] (upstream chain of fossil fuels)	0.601	71.479	19.442	66.124	39.760		
	Fleet natural gas [kg] (mobile combustion)	0.640	0	0	701	449		
	Heating oil [kwh] (upstream chain of fossil fuels)	0.051	0	0	0	0		
	Green electricity [kWh] (upstream chain of renewable energy sources)	0.034	2.953.824	129.968	3.195.184	109.403		
	Biogas [kWh] (upstream chain of renewable energy sources)	0.106	1.381.502	125.717	1.345.419	142.480		
	Power supply micro gas turbine plant 1 [kWh credit]	-0.071	74.992	-44.847	81.874	-5.813		
	Power supply micro gas turbine plant 2 [kWh credit]	-0.071	81.824	-48.932	90.941	-6.457		
Scope 3.4	Transport and distribution, in particular logistics ("Tank-to-wheel")		Lebert	107.588	48.230		54.396	12,8%
Scope 3.5	Waste [flat-rate transport factor for unfilled waste]		0.021	0	0	0	0	
Scope 3.6	Business trips, flights		separate	225.209	120.969	188.453	48.662	-59,8%
Scope 3.7	Commuting of employees [sum]			3.634.111	667.226	4.094.819	764.871	14,6%
	Not specified (treated like a car with a combustion engine)	0.209	241.452	50.705	284.701	59.389		
	Ride-along / passenger	0.000	265.492	0	245.581	0		
	Motorcycle or similar	0.127	27.480	3.572	23.259	2.961		
	Public transport	0.0695	15.277	1.069	14.064	977		
	By pedelec / E-bike	0.0052	18.895	113	22.974	119		
	Electric car	0.0058	12.880	1.352	17.940	104		
	Passenger car with combustion engine	0.2086	2.906.731	610.413	3.362.034	701.320		
	On foot / by bike	0.000	145.903	0	124.266	0		
Scope 3.8	Rented or leased property, plant and equipment (dining room, Mösle warehouse)		0.034	0	0	76.246	2.611	
Total				7.642.335		8.363.045	9,4%	

No relevance or data availability for scopes 3.1, 3.2, 3.9, 3.10, 3.12, 3.13, 3.14, 3.15

1 Dynamic: updated conversion factors were used retrospectively to improve comparability

2 Vehicle fleet: complete data available as of calendar year 2018