

# Carbon footprint for the ensian Group according to the Greenhouse Gas Protocol (GHG)

		as of CY 2021 CO <sub>2</sub> factor	2020 volume	THG emissions for 2020 2021/03/02	2021 volume	THG emissions for 2021 2022/02/16	Deviation
		KlimAktiv	[kWh/l/kg/item/km]	[kg CO <sub>2</sub> ]	[kWh/l/kg/item/km]	[kg CO <sub>2</sub> ]	
<b>Scope 1</b>	<b>Direct emissions</b>			<b>112,209</b>		<b>88.602</b>	<b>-21,0%</b>
Scope 1	Heating oil consumption for tool manufacturing [kWh] (stationary combustion)	0,267	0	0	0	0	
	Evaporation from chillers and refrigeration systems			715		0	-100,0%
	Vehicle fleet, diesel [liters] (mobile combustion)	2,511	37,110	97,958	30.709	77.108	-21,3%
	Vehicle fleet, gasoline [liters] (mobile combustion)	2,215	4,995	11,492	4.449	9.855	-14,2%
	Vehicle fleet, natural gas [kg] (mobile combustion)	2,131	780	2,044	770	1.640	-19,8%
<b>Scope 2</b>	<b>Indirect emissions from energy procurement</b>		<b>3,122,492</b>	<b>3,388</b>	<b>3.346.800</b>	<b>8.112</b>	
Scope 2	Certified green electricity for Leutkirch plants 1 + 2; Probstzella and PV plant in Fraureuth	0,000	3,112,866	0	3.320.634	0	
	<sup>1</sup> External vehicle fleet charging station power [kWh] (mobile combustion)	0,310	9,626	3,388	26.166	8.112	
<b>Scope 3</b>	<b>Indirect emissions from upstream and downstream processes</b>			<b>7,062,216</b>		<b>8.920.769</b>	<b>26,3%</b>
<b>Scope 3.1</b>	<b>Purchased goods (cradle-to-grave)</b>	separate	163,920,554	6,161,126	220.877.132	7.900.456	28,2%
<b>Scope 3.3</b>	<b>Upstream chain fuel and energy-related emissions</b>			<b>161,396</b>		<b>162.976</b>	<b>1,0%</b>
	Gasoline [liters] (upstream chain fossil fuels)	0,458	4,995	1,900	4.449	2.036	
	Diesel [liters] (upstream chain fossil fuels)	0,576	37,110	16,291	30.709	17.692	
	Vehicle fleet, natural gas [kg] (mobile combustion)	0,698	780	499	770	537	
	External vehicle fleet charging station power [kWh] (mobile combustion)	0,039	9,626	747	26.166	1.026	
	Heating oil [kWh] (upstream chain fossil fuels)	0,051	0	0	0	0	
	Green electricity [kWh] (upstream chain renewable energy carrier)	0,027	3,122,492	106,914	3.346.800	90.364	
	Biogas electricity [kWh] (upstream chain renewable energy carrier)	0,029	1,526,065	43,951	1.781.990	51.321	
	Micro gas turbine power input, plant 1 [kWh credit]	-0,068	52,357	-3,560	no longer account	nicht mehr bilanzieren	
	Micro gas turbine power input, plant 2 [kWh credit]	-0,068	78,610	-5,345	no longer account	nicht mehr bilanzieren	
<b>Scope 3.4 + 3.9</b>	<b>Upstream and downstream transportation</b>	separate		<b>26,045</b>		<b>21.949</b>	<b>-15,7%</b>
<b>Scope 3.5</b>	<b><sup>2</sup>Waste [flat transport factor for non-landfill waste]</b>	0,021	233,141	4,896	249.899	5.248	7,2%
<b>Scope 3.6</b>	<b>Business trips, flights</b>	separate	2,260	325	17.343	2.158	564,1%
<b>Scope 3.7</b>	<b>Employee commuting [total]</b>		<b>3,700,104</b>	<b>703,850</b>	<b>4.185.380</b>	<b>823.838</b>	<b>17,0%</b>
	No entry (handled like passenger cars with combustion engines)	0,214	262,104	54,675	311.213	66.537	
	Ridesharing/passengers	0,000	152,665	0	151.746	0	
	Motorcycle, etc.	0,127	16,596	2,113	16.024	2.040	
	Public transportation	0,0939	10,233	666	3.187	299	
	By pedelec/e-bike	0,0035	15,802	70	15.442	54	
	Electric car	0,0046	33,274	193	49.003	225	
	Passenger car with combustion engine	0,2138	3,097,477	646,134	3.529.850	754.682	
	By foot/bicycle	0,000	111,953	0	108.914	0	
<b>Scope 3.8</b>	<b><sup>3</sup>Rented or leased fixed assets (dining room, Möslle warehouse)</b>		<b>145,065</b>	<b>4,578</b>	<b>147.509</b>	<b>4.145</b>	<b>-9,5%</b>
	Electricity – Green electricity	0,0270	73,531	2,518	57.589	1.555	
	Gas – Biogas	0,0288	71,534	2,060	89.920	2.590	
<b>Total</b>				<b>7,177,813</b>		<b>9.017.482</b>	<b>25,6%</b>

No relevance or available data for scopes 3.2, 3.10, 3.11, 3.12, 3.13, 3.14, 3.15

Changes:

<sup>1</sup> Consumed electricity from external charging stations was added to indirect emissions from energy procurement

<sup>2</sup> Scope 3.5 Flat transport factor for non-landfill waste was added to Scope 3 Emissions

<sup>3</sup> Consumption was divided into electricity and gas for Scope 3.8 Rented or leased fixed assets