

Greenhouse Gas Footprint Gurit Holding AG

GHG Scope 1 & 2: emissions in tCO₂e (2022, 2021, 2020)

GHG footprint calculation based on [GHG Protocol](#), including a total of [26 facilities](#) for fixed base year approach. Greenhouse gas footprint figures for 2020 and for 2021 had to be restated due to structural changes of Gurit and its sites in base year 2020. The data collected by Gurit for the most reported and complete year was used as a proxy. For the Gurit facilities we had to restate 2022 based on 2021 data because the person in charge of the data collection left the company. The data that was provided for 2021 is still considered adequate as no major changes had taken place in 2022 for these two locations. Additionally, 2020 and 2021 results had to be restated because N₂O, CO₂ and CH₄ emissions reported by Hefang were related to Natural gas burning. These emissions were already reported in Stationary Combustion category and were therefore double-counted.

	Reported in 2022 Sustainability Report			Notes
	2022	2021 restated	2020 restated	
Scope 1 Total	9,354	10,337	12,249	Regulations for restatements made in 2022 Sustainability Report of previous year data
Scope 1 total integrating Compensation purchased in 2021 (146 tCO₂e)	0	0	12,249	Explanation for 2022 results
Stationary combustion	7,880	8,487	9,748	Gurit footprint recalculation due to structural changes (acquisition, divestment) and to have consistent data set over time
Natural gas	6,480	6,847	7,027	
Heating oil	0	0	8	Mainly impact of divestment, removed for base year (2020) and for 2021 too.
Methane	1,258	1,311	1,357	Main decrease comes from 1 site, production line output is less than 2021.
Liquefied petroleum gas (LPG)	0	0	0	Methane only used in 1 site.
Wood	1,007	0	0	Wood burned for stationary energy in 1 site.
Diesel	1,153	1,258	1,283	Decrease mainly comes from 1 site.
Petrol	16	35	54	
Mobile combustion	679	808	1,122	Diesel forklifts replaced by Electrical ones in 1 site.
Diesel	402	500	792	Gas fleet of forklift trucks has been removed in 1 site.
Petrol/gasoline	195	193	303	
Natural Gas	0	0	3	
Liquefied petroleum gas (LPG)	82	115	24	Decrease mainly comes from 2 sites.
Process emissions	484	814	618	
N ₂ O	50	0	1	N ₂ O emissions reported in 2020 and 2021 by 1 site were related to Natural gas burning, so had already been double counted in Stationary Combustion. N ₂ O reported by 1 site in 2022.
CO ₂	0	0	0	N ₂ O emissions reported in 2020 and 2021 by 1 site was related to Natural gas burning, and so had already counted in Stationary combustion.
Cyclopentane	250	601	490	Cyclopentane is used in 2022 by 1 site.
Other process emissions	184	213	128	CH ₄ emissions reported in 2020 and 2021 by 1 site was related to Natural gas burning, and so had already counted in Stationary combustion.
Fugitive emissions	218	288	782	Regarding the acrylonitrile, the production volume has dropped through 2022 vs 2021 due to a related product phase out explaining the reduction.
Acrylonitrile	3	21	18	CH ₄ emissions reported in 2020 and 2021 by 1 site was related to Natural gas burning, and so had already counted in Stationary combustion.
HFC-134a	0	0	0	No HFC-410A in 2022, data confirmed.
HFC-410A	0	15	6	
R-22	143	141	369	
Other fugitive emissions	65	63	373	
Scope 2 Total	28,160	26,688	23,550	
Scope 2 total integrating EAC Renewable energy certificate purchased in 2021 (28 tCO₂e)	26,325	623	23,550	
Scope 2 total integrating Compensation purchased in 2021 (146 tCO₂e)	0	0		
Electricity	27,698	26,165	22,920	Increase comes mainly from 2 new sites ramping up their production.
District heating	562	523	630	
Scope 1 & 2 Total	37,514	37,025	35,800	

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Evolution of GHG emissions in % compared to the reference year: 2020

	2022	2021 (restated)
Scope 1 Total	-23.63%	-15.61%
Stationary combustion	-18.14%	-13.24%
Mobile combustion	-59.45%	-27.97%
Process emissions	-21.58%	-31.79%
Fugitive emissions	-72.37%	-66.10%
Scope 2 Total	19.87%	13.32%
Electricity	29.41%	14.16%
District heating	-10.83%	-17.05%
Scope 1 & 2 Total	4.79%	3.42%

Share of 2022 scope 1 & 2

24.94%
21.27%
1.81%
1.09%
0.56%
0.40%
0.17%
75.06%
72.57%
1.50%

Share of 2022 Scope 1, 2 & Partial 3

7.65%
6.53%
0.98%
0.08%
0.07%
0.03%
0.03%
23.83%
22.37%
0.46%

Share of 2022 total footprint

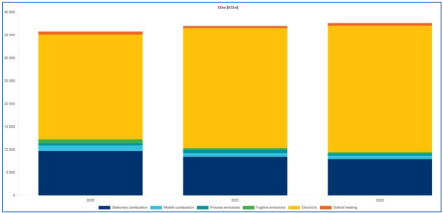
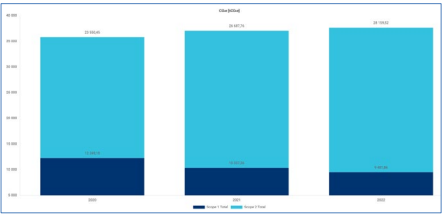
1.28%
1.09%
0.08%
0.07%
0.03%
0.03%
3.94%
3.76%
0.08%
5.12%

Year-to-year evolution of footprint

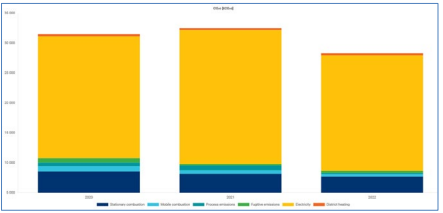
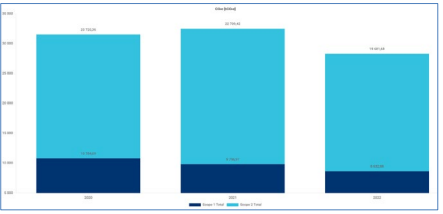
	From 2021 to 2022	From 2020 to 2021
Scope 1 Total	-9.51%	-15.61%
Stationary combustion	-5.04%	-13.24%
Mobile combustion	-15.94%	-27.97%
Process emissions	-40.50%	-31.79%
Fugitive emissions	-16.40%	-66.10%
Scope 2 Total	5.51%	13.32%
Electricity	5.68%	14.16%
District heating	7.50%	-17.05%
Scope 1 & 2 Total	1.32%	3.42%

Greenhouse Gas Footprint Gurit Holding AG
Scope 1 and 2
Charts from Sylitics Tool

Calculation based on GHG Protocol, including 34 Gurit sites for fixed base year approach.



Calculation with 20 Legacy sites



GHG Scope 3 (indirect emissions) in tCO₂e

Calculation based on [GHG Protocol](#), including [24 Corporate Emission Factor Allocation](#) for fixed base year approach. Greenhouse gas footprint figures for 2020 and for 2021 had to be restated due to structural changes of Gurtl and in order to have consistent data sets over time. We applied a base year recalculation methodology for structural changes using a fixed base year (2020). Acquired companies are included both with their emissions in the base year (when Gurtl did not control these sources yet) and in the following years. Emissions from divested facilities are excluded both with their emissions in the base year (when they were still controlled by the Gurtl) and the following years. If no data could be collected back to the base year for an acquired company, the data collected by Gurtl for the most recent and complete year was used as a proxy. For two Gurtl locations we had to estimate the 2020 data based on the 2021 data. The change of the data collection and the company. The data that was provided for 2021 is still considered as preliminary, as no major changes had taken place in 2022 for these two locations. Additionally, 2020 and 2021 results had to be restated because of GHG, CO2 and CH4 emissions reported by 1 site were still not covered as gas burning. These emissions were already reported in Stationary Combustion category and were therefore double-counted.

Notes:
 Explanations for restatements made in 2022 Sustainability Report of previous year data
 Explanation for 2022 results

GHG footprint recalculation due to structural changes (acquisition, divestment)
 and to have consistent data set over time

Important part is related to carbon fiber purchased.

Decrease could be due to missing data for some sites.

Check last results traded PVC on Ex. data available.

(incl. Corrosion, Fluor, Iron, Nickel, Platinum, Plastic mix, Steel)

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Share of 2022 PARTIAL SCOPE 3	Share of 2022 SCOPE 3	Share of 2022 SCOPE 1, 2 & PARTIAL 3	Share of 2022 total footprint
100.00%	100.00%	69.32%	94.88%
29.18%	3.95%	20.23%	3.37%
10.32%	1.24%	7.08%	1.95%
16.54%	2.01%	11.48%	1.91%
11.52%	1.40%	7.96%	1.33%
22.48%	2.74%	15.59%	2.60%
3.17%	0.39%	2.20%	0.37%
1.98%	0.24%	1.37%	0.23%
4.91%	0.60%	3.40%	0.57%
	0.89%		0.84%

	From 2021 to 2022	From 2020 to 2021
Scope 3 Total	-19.53%	7.99%
Scope 3 (partial) Total	4.91%	9.18%
Purchased goods	-22.16%	8.65%
Capital goods	21.81%	10.78%
Fuel and energy related activities	28.33%	-16.87%
Transportation of raw materials (upstream)	-12.05%	
Transportation of produced and traded products (downstream)	-13.87%	-22.05%
Transportation of produced and traded products (downstream)	-3.74%	-5.96%
Waste generated in operations	20.92%	-46.23%
Business travel	1.56%	13.89%
Employee commuting	49.14%	-21.38%
End-of-Life Treatment of Solid Products	-0.05%	-40.65%

