

# FACTSHEET H1 2023: ESG update CO<sub>2</sub>PL

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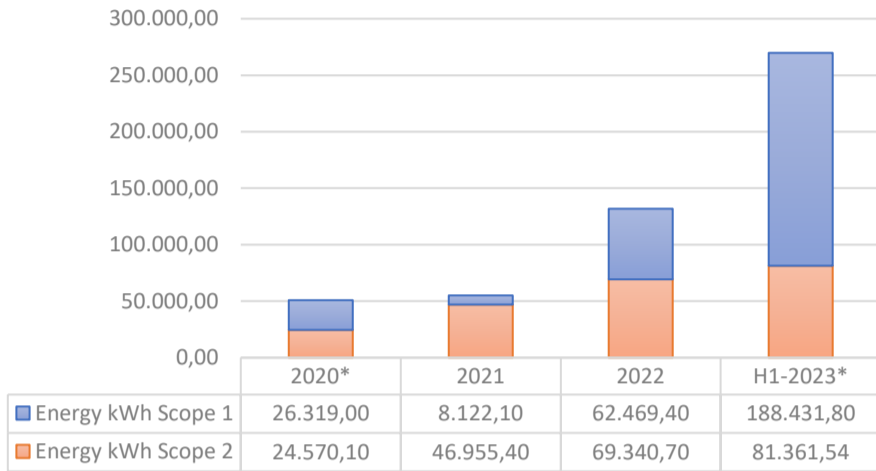
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## A-Insight Q1 and Q2 2023

A periodic insight into CO<sub>2</sub> emissions, a concrete policy and package of measures to achieve reductions form the foundation of the ladder. In practice, the CO<sub>2</sub> Performance Ladder results in structural cost savings within the own organization and on the projects. The insight into energy consumption, this is based on all financial data (sustainability report) of FCC NL: Graphics states: I - Energy (scope 1 and 2), II - CO<sub>2</sub> emissions (Scope 1, 2 and BT) and III - Scope 3

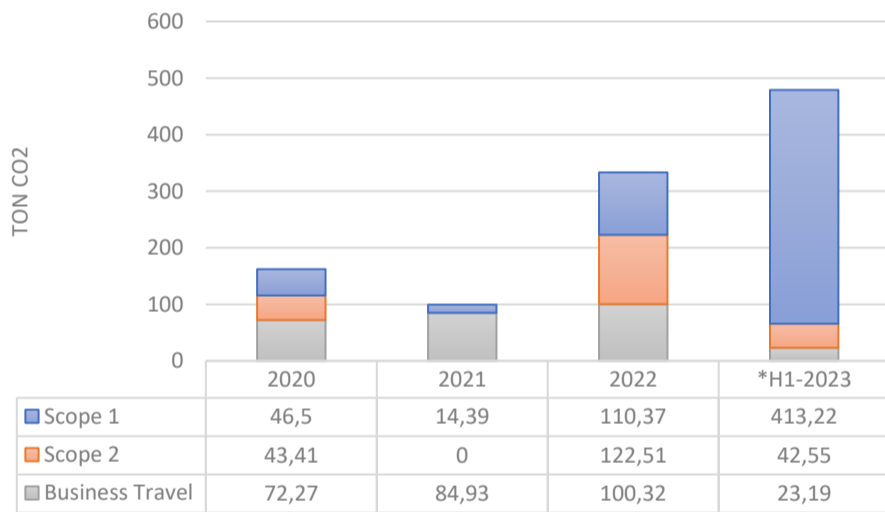
Insight into the Energy inventory over the past three years can be found in the graph below (Scope 1 and 2). \*For H1-2023 the data is based on own calculation. The numbers from the group will be added in the full report of 2023.

I - Energy (kWh) from FCC group



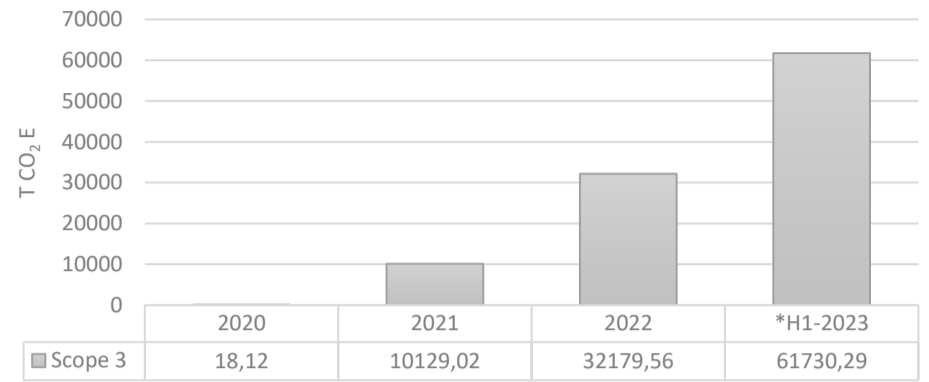
Below you will find inventory of GHG-emissions per scope. \*For H1-2023 the data is based on own calculation. The numbers from the group will be added in the full report of 2023.

II - Emission inventory in T CO<sub>2</sub> from FCC group



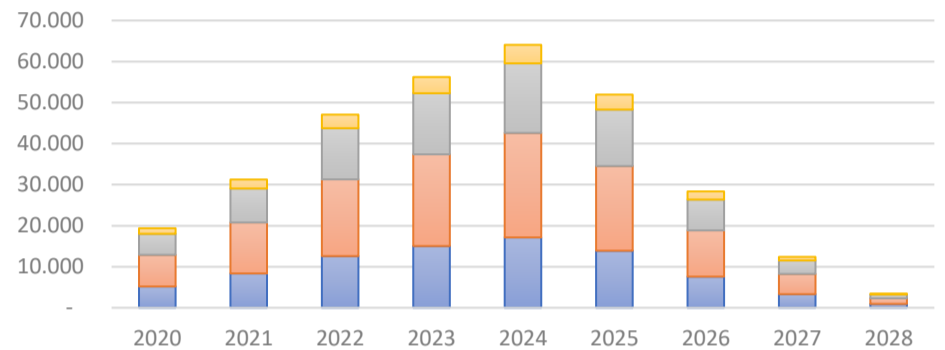
In the graph below insights are given into the total scope 3 emissions per year from the group level. For the first half of 2023 an estimation is made (based on BoF H1 2023 and group information). For the second half and the full Scope 3 see Sustainability Report 2023 (will follow next year Q2).

III - Scope 3



Below - Forecast based on VO design quantities (GHG Emissions 2020 - 2028 VEENIX):

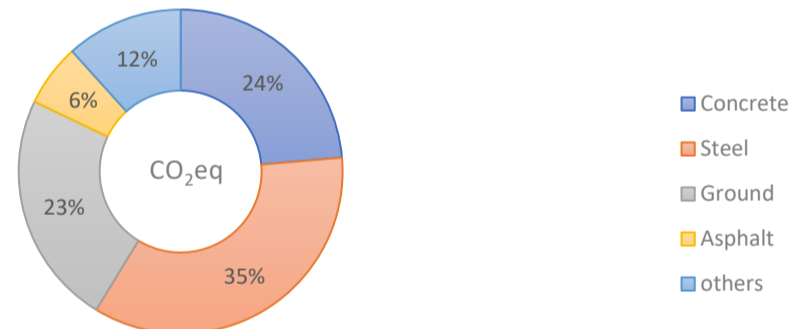
IV - tCO<sub>2</sub> emissions forecast



## B- CO<sub>2</sub>-reduction VFCC NL

The CO<sub>2</sub> Performance Ladder aims to implement reduction measures on the project VEENIX. The relation between the EU CO<sub>2</sub> reduction targets and the reduction targets of FCC NL. At FCC, most of the CO<sub>2</sub> emissions will take place at the construction site. Therefore, to take big steps to reduce CO<sub>2</sub> emissions it makes more sense to do so where there is the most emission. Therefore, the reduction measures are focused on the construction sites instead of the office. The proposal for CO<sub>2</sub> reduction (in %) concerning the materials can be found in the graph below:

Table below: Reductions targets (in % tCO<sub>2</sub> based on table IV, VO design).



V2.0

Emissions based on  
ISO 14064-1 and ISO 50001  
Boundary FCC NL

Scope 1 Directe emissies										413,22	Ton CO <sub>2</sub> e
S1.1	Actor	Fuel used (Gas) office	Cf	Eenheid	H1-2023	eenh	H1-2023	eenh	40,22	Ton CO <sub>2</sub> e	
		Schurenbergweg 6	2,085	kg CO <sub>2</sub> /Nm <sup>3</sup> brandstof *)	19.288,75	Nm <sup>3</sup>	188.431,80	kWh	40,22	Ton CO <sub>2</sub> e	
S1.2	Business car travel									29,40	Ton CO <sub>2</sub> e
		Leaseauto's	Cf	Eenheid	H1-2023	eenh	H1-2023	eenh			
		Gasoline 98	2,821	kg CO <sub>2</sub> /liter brandstof	198,00	litre		Liter	0,56	Ton CO <sub>2</sub> e	
		Gasoline 95	2,821	kg CO <sub>2</sub> /liter brandstof	7.241,00	litre		Liter	20,43	Ton CO <sub>2</sub> e	
		Diesel	3,262	kg CO <sub>2</sub> /liter brandstof	2.579,00	litre		Liter	8,41	Ton CO <sub>2</sub> e	
S1.3	Fuel used generators									343,61	
		Diesel	3,262	kg CO <sub>2</sub> /liter brandstof	105.336,00	Liter		Liter	343,61	Ton CO <sub>2</sub> e	
Scope 2 emissies of indirecte emissies										81.361,54	kWh
S2.1	Energieverbruik offices									28,74	Ton CO <sub>2</sub> e
		Green energy from EU source	Cf	Eenheid	H1-2023	eenh	H1-2023	eenh			
		Schurenbergweg 6	EU Wind	0,523	g CO <sub>2</sub> /kiloWattuur	54.944,81	kWh		kWh	28,74	Ton CO <sub>2</sub> e
S2.2	Energy use production locations									13,82	Ton CO <sub>2</sub> e
		Green energy from EU source	Cf	Eenheid	H1-2023	eenh	H1-2023	eenh	13,82	Ton CO <sub>2</sub> e	
		Middeldorpstraat 7	EU Wind	0,523	kg CO <sub>2</sub> /kiloWattuur	5.508,66	kWh		kWh	2,88	Ton CO <sub>2</sub> e
		Ouderkerkerlaan 36	EU Wind	0,523	kg CO <sub>2</sub> /kiloWattuur	3.817,69	kWh		kWh	2,00	Ton CO <sub>2</sub> e
		Ouderkerkerlaan 50	EU Wind	0,523	kg CO <sub>2</sub> /kiloWattuur	9.280,42	kWh		kWh	4,85	Ton CO <sub>2</sub> e
		Rijksweg A9	EU Wind	0,523	kg CO <sub>2</sub> /kiloWattuur	7.809,96	kWh		kWh	4,08	Ton CO <sub>2</sub> e
Scope 3 emissies of overige indirecte emissies										23,19	Ton CO <sub>2</sub> e
S3.1	Indirecte emissies									23,19	Ton CO <sub>2</sub> e
		Flights	0,172	kg CO <sub>2</sub> /km	134.832,00	km		km	23,19	Ton CO <sub>2</sub> e	