

Report number:

CO2-SC1.2-24/08



COMPANY CARBON FOOTPRINT SCOPE 1 AND 2 REPORT

FOR ONGROPACK KFT.

**covering financial year 2023
(01.01.2023 – 31.12.2023)**

(According to The Greenhouse Gas Protocol,
Corporate Accounting and Reporting Standard)



Created: 18 September 2024
Prepared by: CMG Carbon Kft.

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Summary

Company data

Name:
Ongropack Kft.

Registered office:
3711 Szirmabesenyő, Miskolci utca 19.

Emission duration:
Financial year 2023 (01.01.2023 – 31.12.2023)

Ongropack Kft. Company emission location::
3711 Szirmabesenyő, Miskolci utca 19.

The CO₂e emissions were calculated based on the energy and fuel consumption data supplied by Ongropack Kft. with respect to the financial year 01.01.2023 – 31.12.2023.

Total emissions of the company:



1. Total energy consumption at the company

The table below summarises the energy and fuel consumption data supplied by Ongropack Kft. with respect to the financial year 01.01.2023 – 31.12.2023. The annual energy and fuel consumption data constitute the sources of Scope 1 and 2 emissions

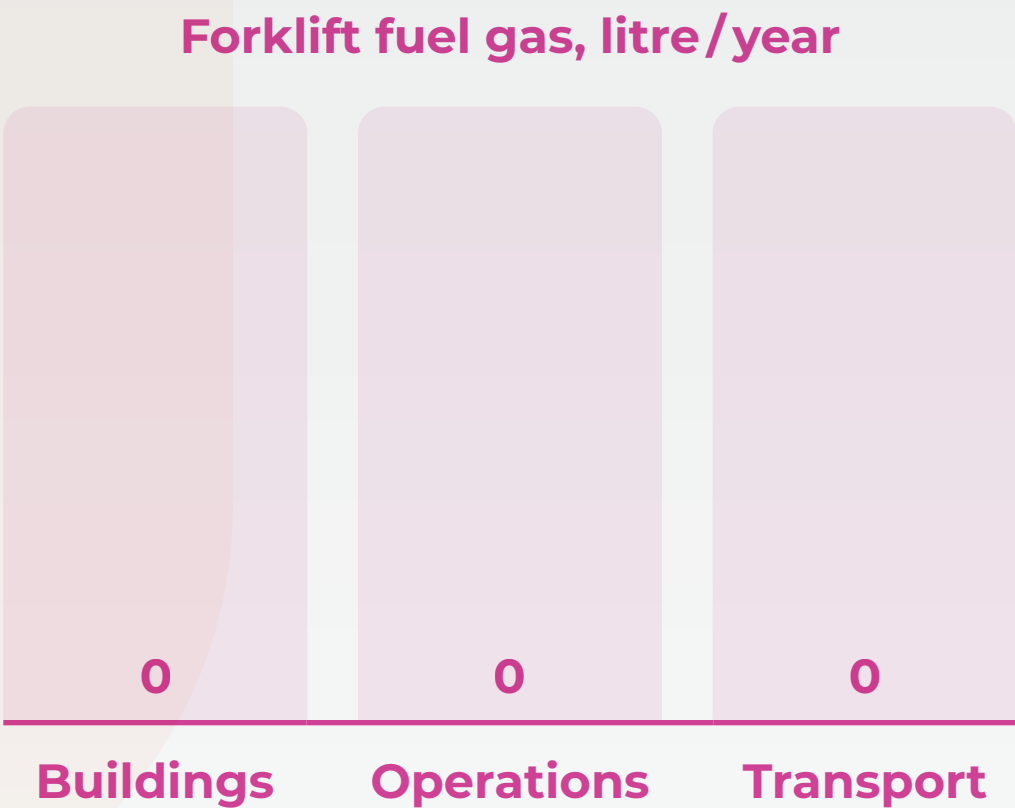
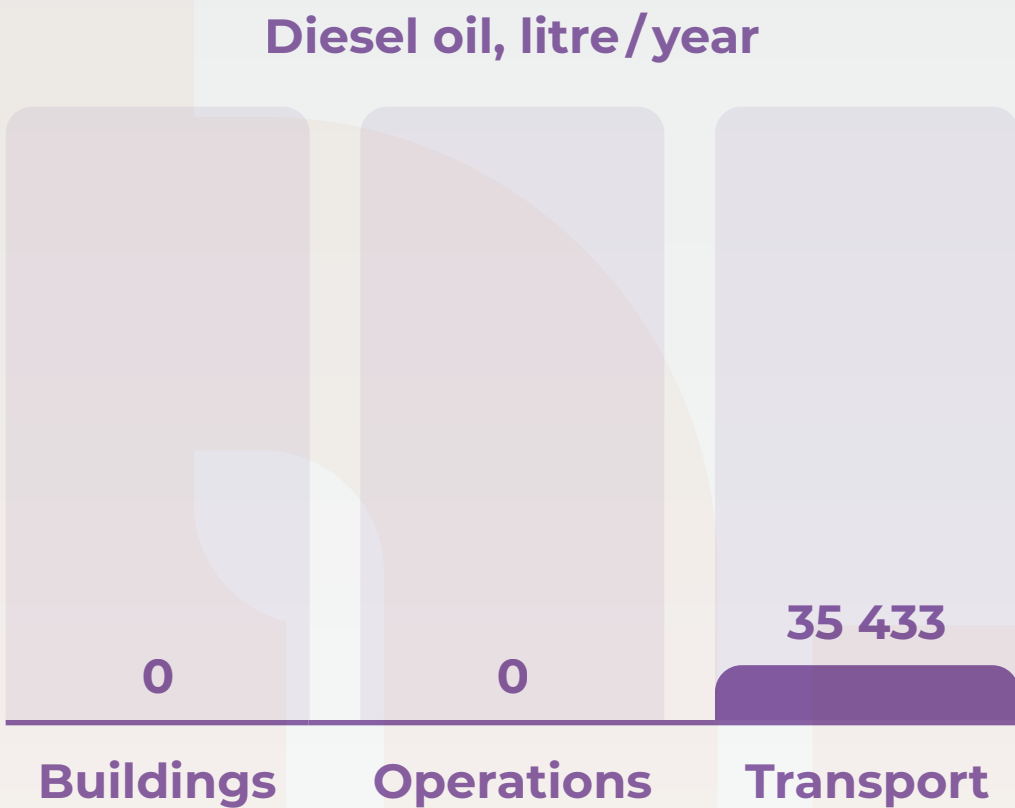
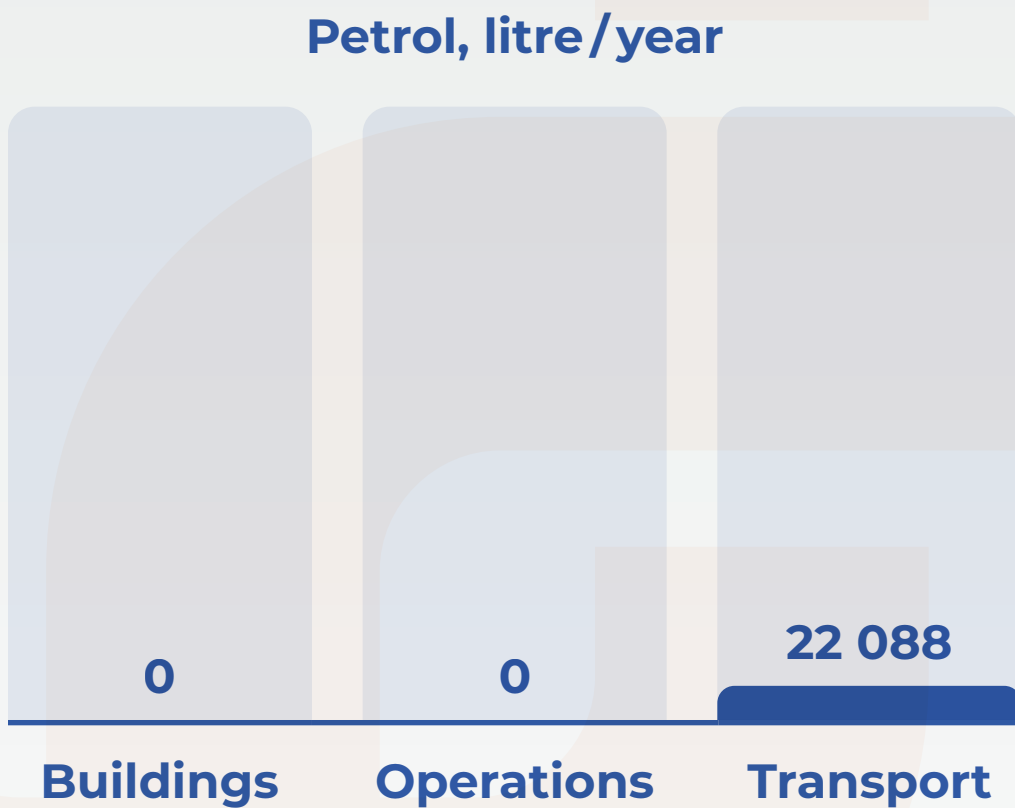
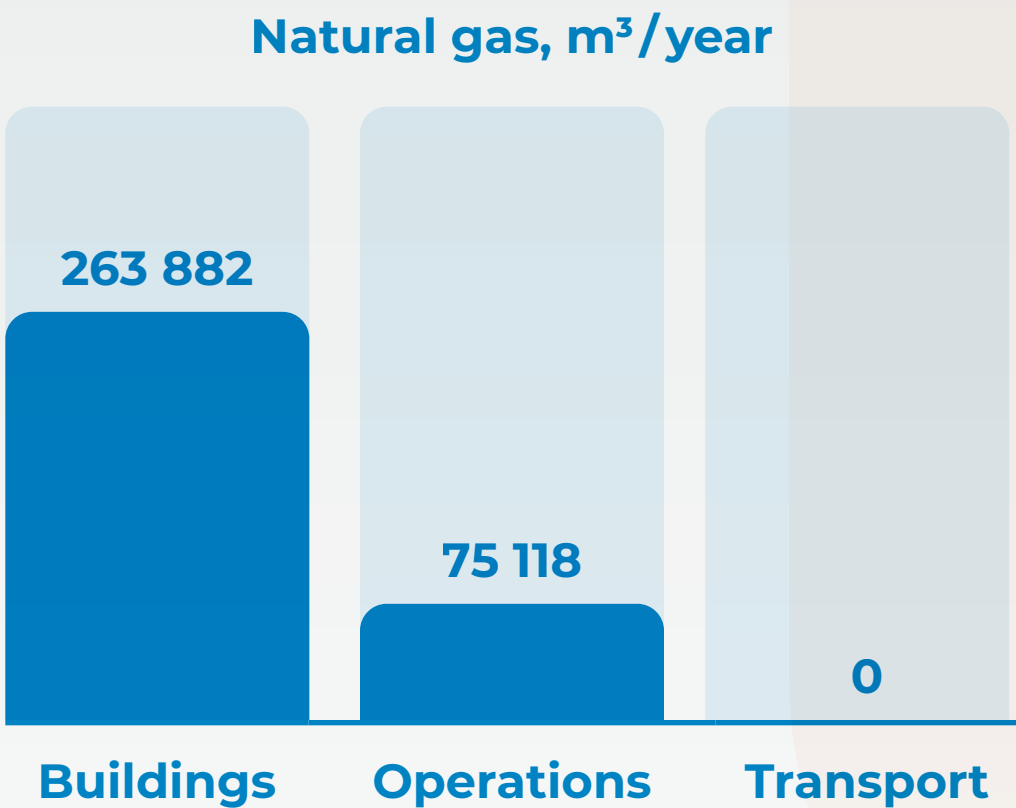
Energy baseline data of the company covering FY 2023 (01.01.2023 – 31.12.2023)

Scope 1 sources – Purchased power consumption		Company Total	Buildings	Operations	Transport
Natural gas	m³ /year	339 000	263 882	75 118	–
Petrol	litre /year	22 088	–	–	22 088
Diesel oil	litre /year	35 433	–	–	35 433
Forklift fuel gas	litre /year	–	–	–	–
Total		396 521	263 882	75 118	57 521

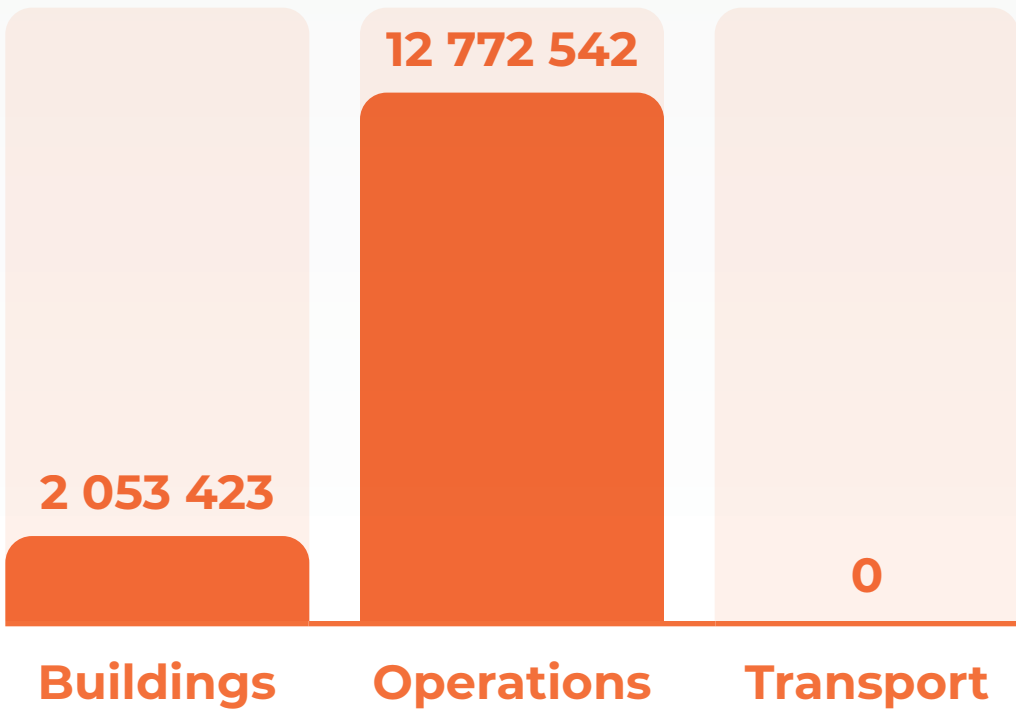
Scope 2 sources		Company Total	Buildings	Operations	Transport
Purchased electricity	kWh/year	14 825 965	2 053 423	12 772 542	–

Renewable energiasources		Company Total	Buildings	Operations	Transport
Solar power for electricity generation	kWh/year	787 600	–	787 600	–
Thermal energy generation by heat recovery units	kWh/year	30 055	–	30 055	–
Thermal energy generation by solar panels	kWh/year	102 930	102 930	–	–
Total		920 585	102 930	817 655	–

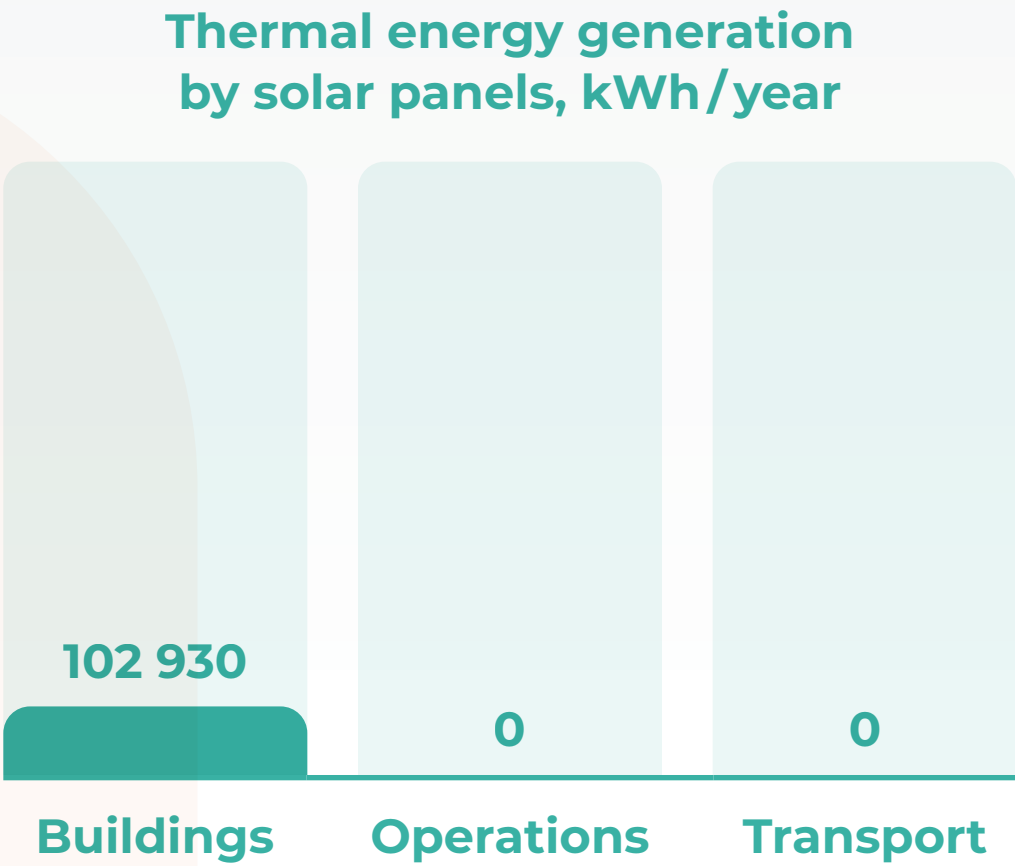
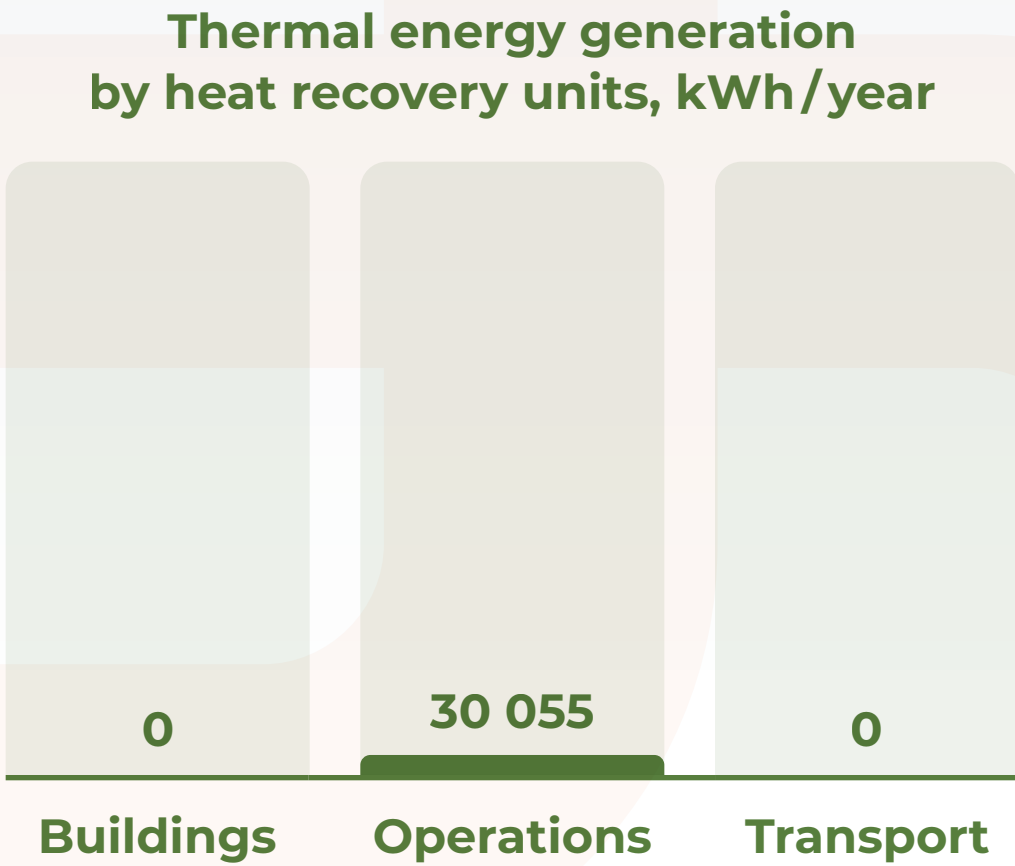
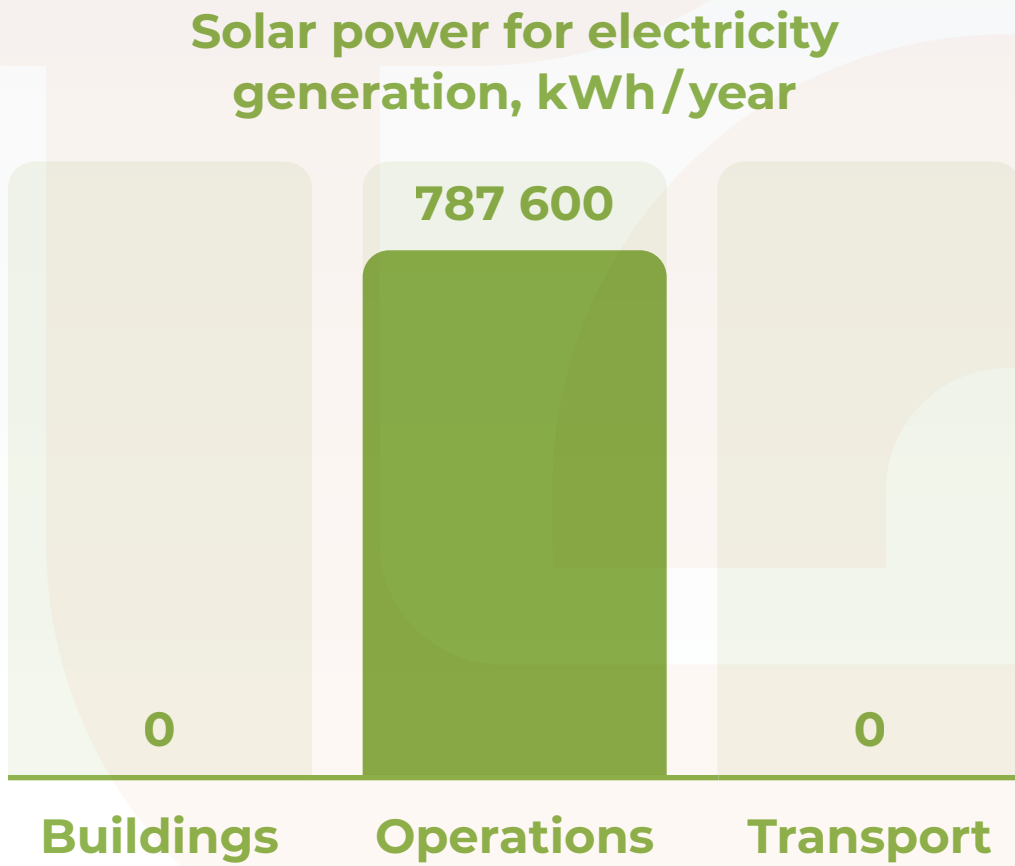
Annual purchased energy consumption



Annual purchased electricity consumption, kWh/year



Annual Renewable energiasources



Total energy consumption of the company in FY 2023, MJ/year

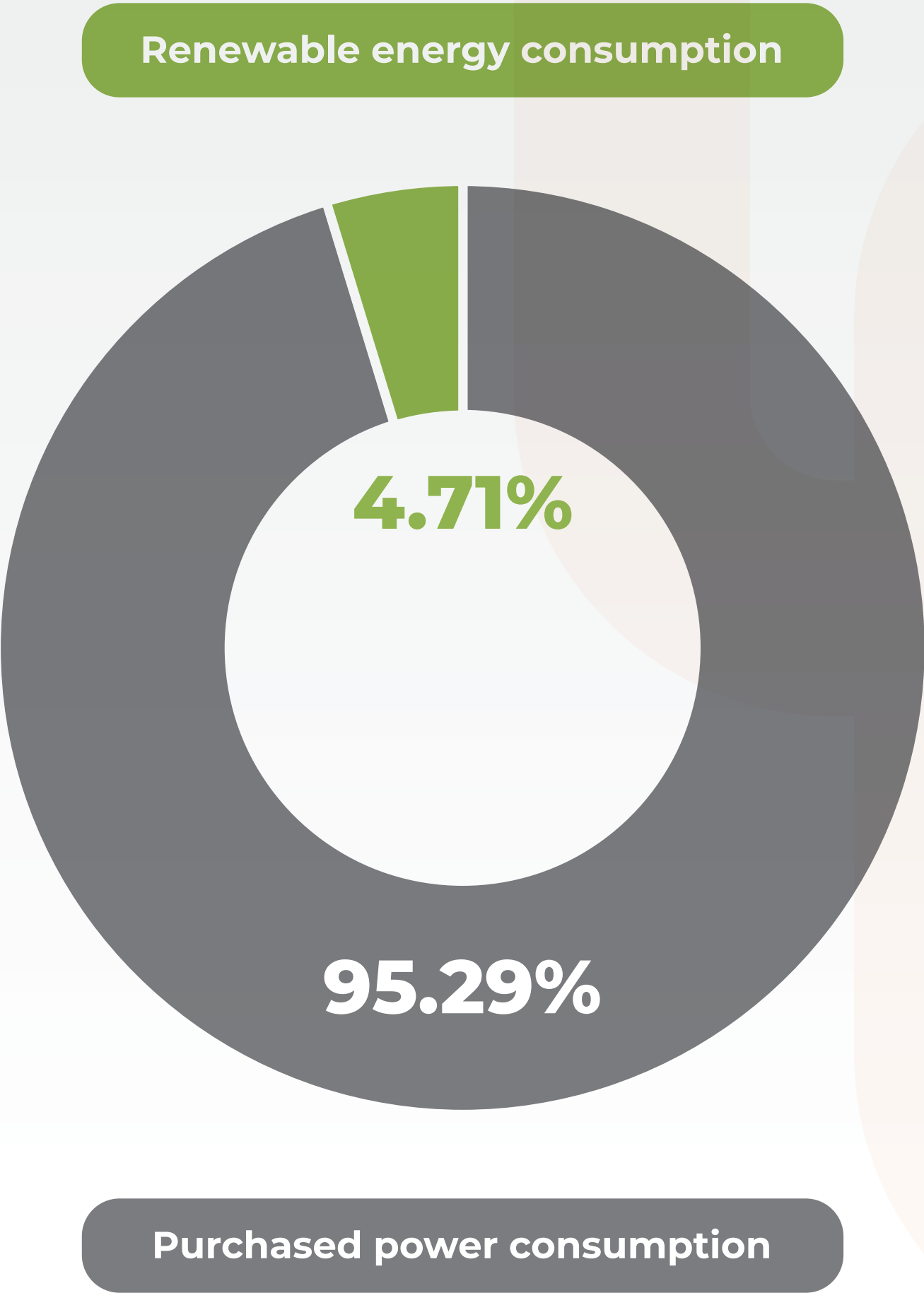
Summary account of annual energy consumptions		Company Total	Buildings	Operations	Transport	
Energy type	%	MJ/year	MJ/year	MJ/year	MJ/year	
Purchased power consumption	95.29%	67 119 932	16 566 532	48 592 716	1 960 684	
Renewable energy consumption	4.71%	3 314 105	370 548	2 943 557	–	
Total	100%	70 434 037	16 937 080	51 536 272	1 960 684	

Annual purchased energy use of the company, MJ/year

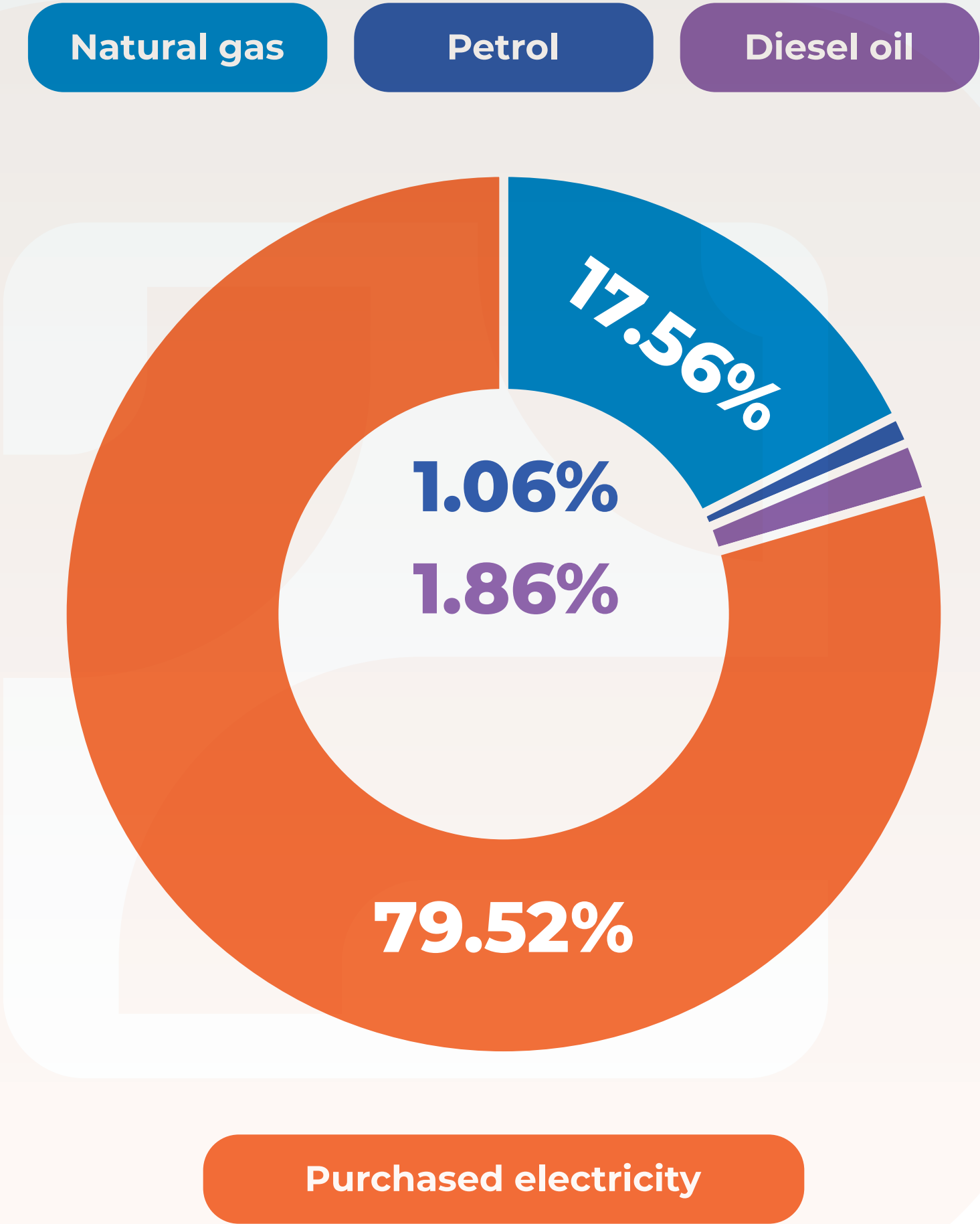
Annual purchased energy use		Company Total	Buildings	Operations	Transport	
Energy type	%	MJ/year	MJ/year	MJ/year	MJ/year	
Natural gas	16.73%	11 785 774	9 174 209	2 611 565	–	
Petrol	1.01%	713 442	–	–	713 442	
Diesel oil	1.77%	1 247 242	–	–	1 247 242	
Forklift fuel gas	0%	–	–	–	–	
Purchased electricity	75.78%	53 373 474	7 392 323	45 981 151	–	
Total	95.29%	67 119 932	16 566 532	48 592 716	1 960 684	

The shades of red indicate particularly high energy use.

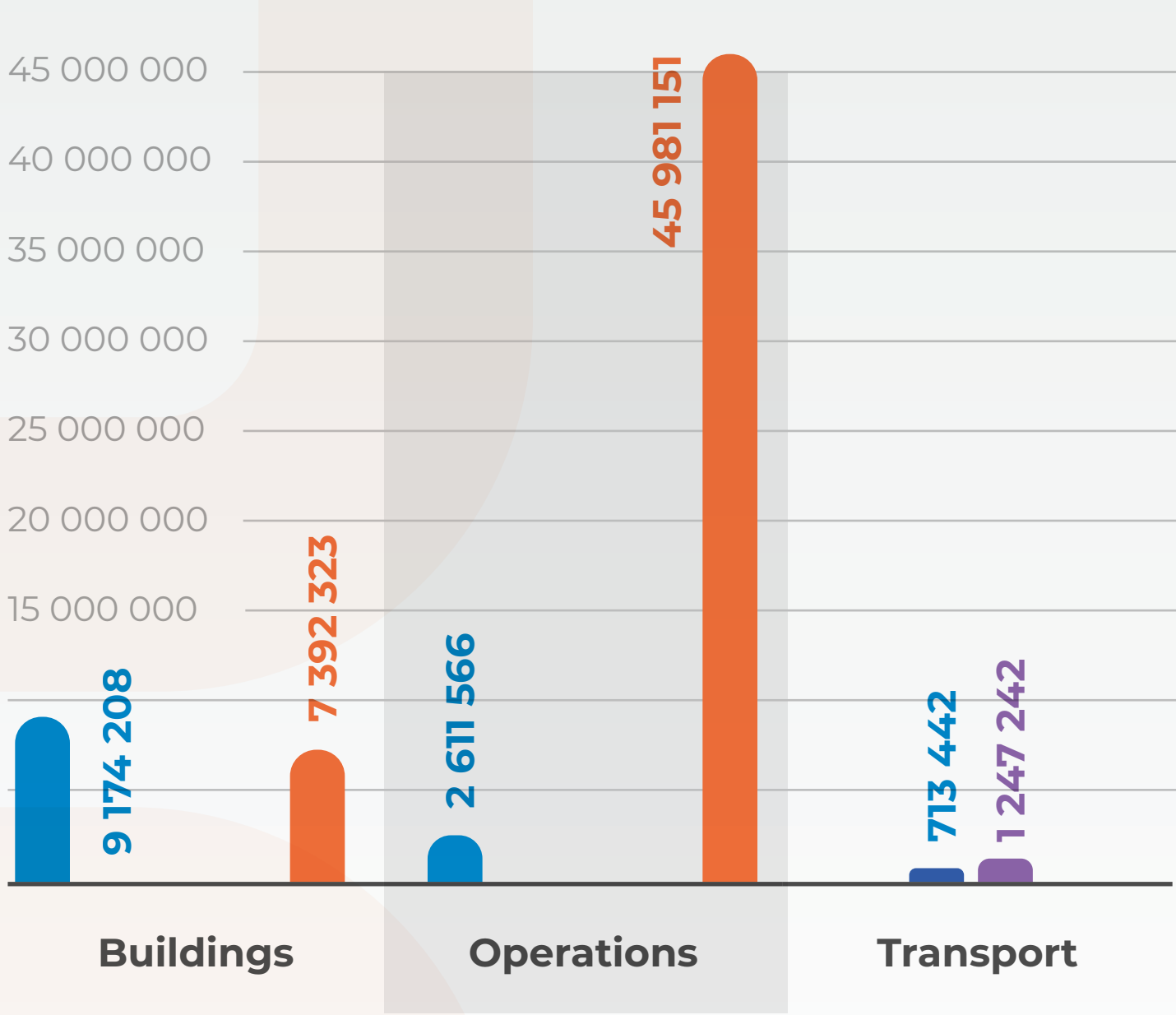
Summary account of annual energy consumptions, MJ/year



Summary account of annual purchased power consumption, MJ/year



Energy consumption of the company per category in FY 2023, MJ/year



Of all energy, Ongropack Kft. electricity use is the highest. This is followed by natural gas use. Petrol and diesel oil is used the least.

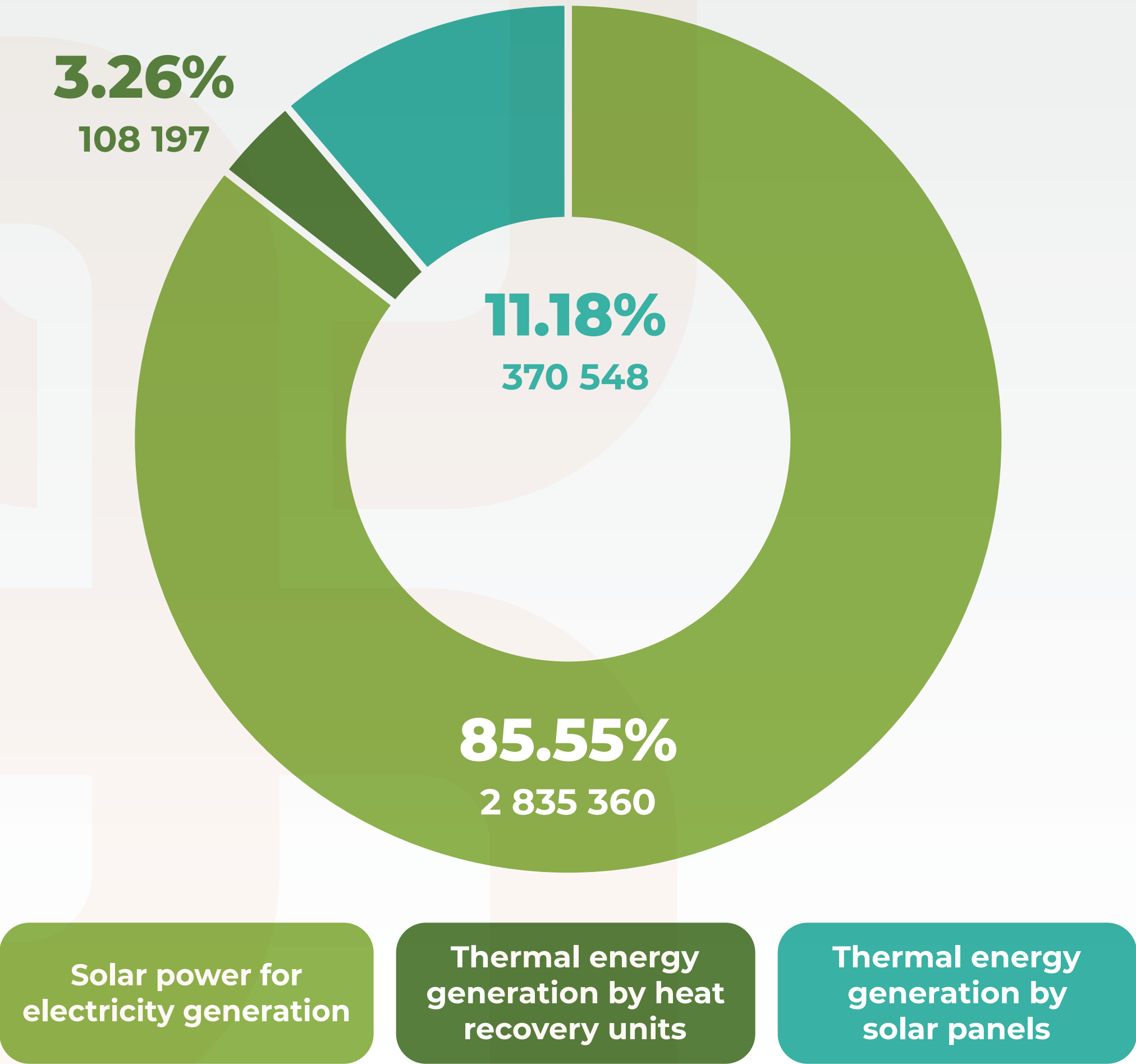
Electricity consumed by manufacturing activities constitutes the highest energy use of Ongropack Kft.

Annual renewable energy use of the company, MJ/year

Annual renewable energy use		Company Total	Buildings	Operations	Transport
Energy type	%	MJ/year	MJ/year	MJ/year	MJ/year
Solar power for electricity generation	4.03%	2 835 360	–	2 835 360	–
Thermal energy generation by heat recovery units	0.15%	108 197	–	108 197	–
Thermal energy generation by solar panels	0.53%	370 548	370 548	–	–
Total	4.71%	3 314 105	370 548	2 943 557	–

The highest renewable energy consumption of Ongropack Kft. comes from the electricity generated by the 1.7 MWp PV system put into operation on 10 August 2023, and the hot water generated by the solar panels of the plants and the heat recovery heating system.

Summary account of annual energy consumptions, MJ/year



2. Method of calculating the CO₂ equivalent

The carbon dioxide equivalent (CO₂e) is the term used as the sum of the most common greenhouse gases as defined in the Kyoto Protocol.

Leggyakoribb üvegházhatású gázok:

O=C=O

CARBON DIOXIDE
(CO₂)

C

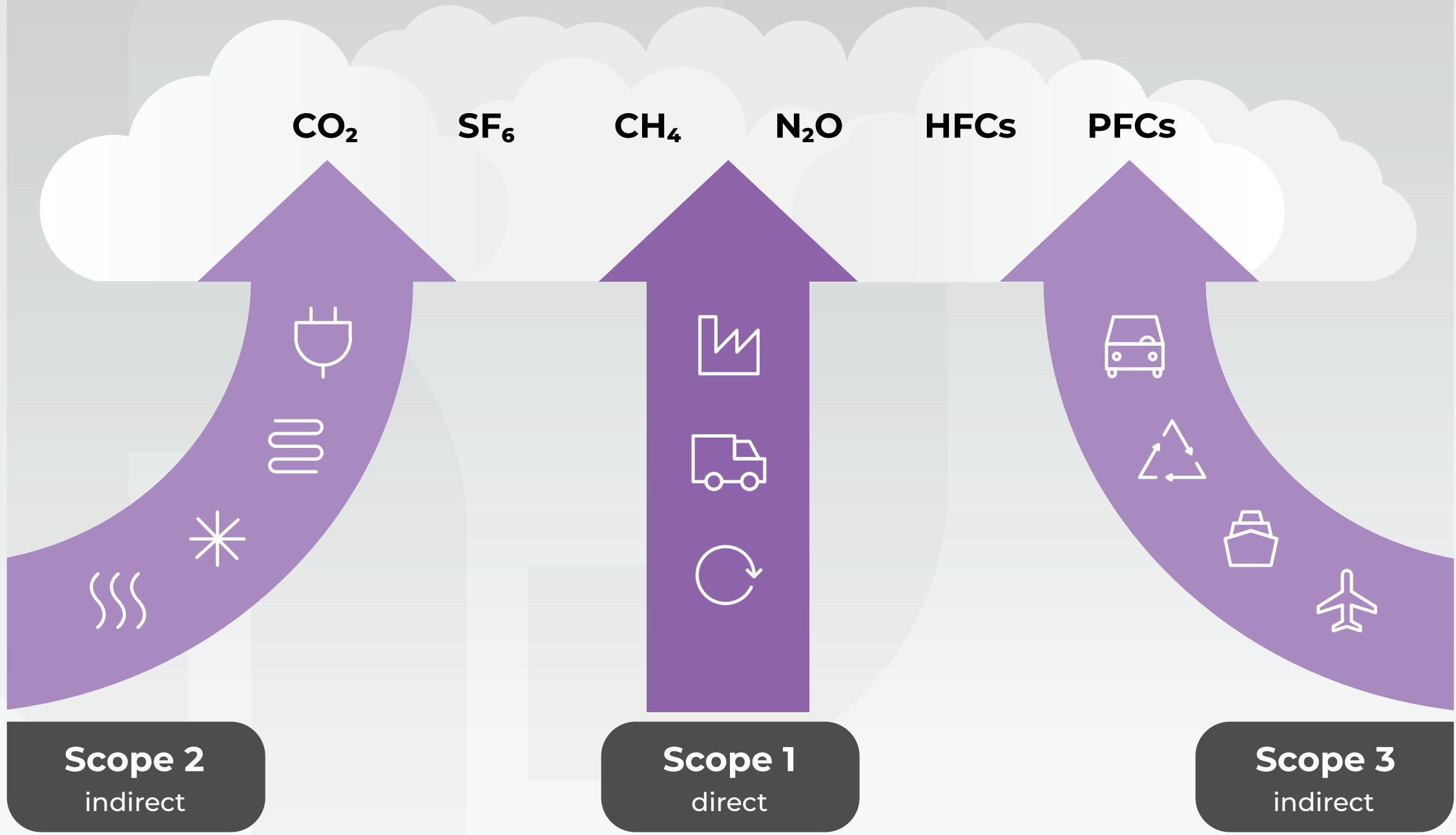
METHANE
(CH₄)

N2O

NITROUS OXIDE
(N₂O) (laughing gas)

The CO₂ equivalents of the different emission sources need to be aggregated to determine a company’s carbon footprint. Sources of emissions can be direct or indirect in nature. Accordingly, **Scope 1, 2 and 3** categories were defined in the following standards:

- **The Greenhouse Gas Protocol, Corporate Accounting and Reporting Standard**
- **ISO14064-1-2018: Greenhouse Gas**



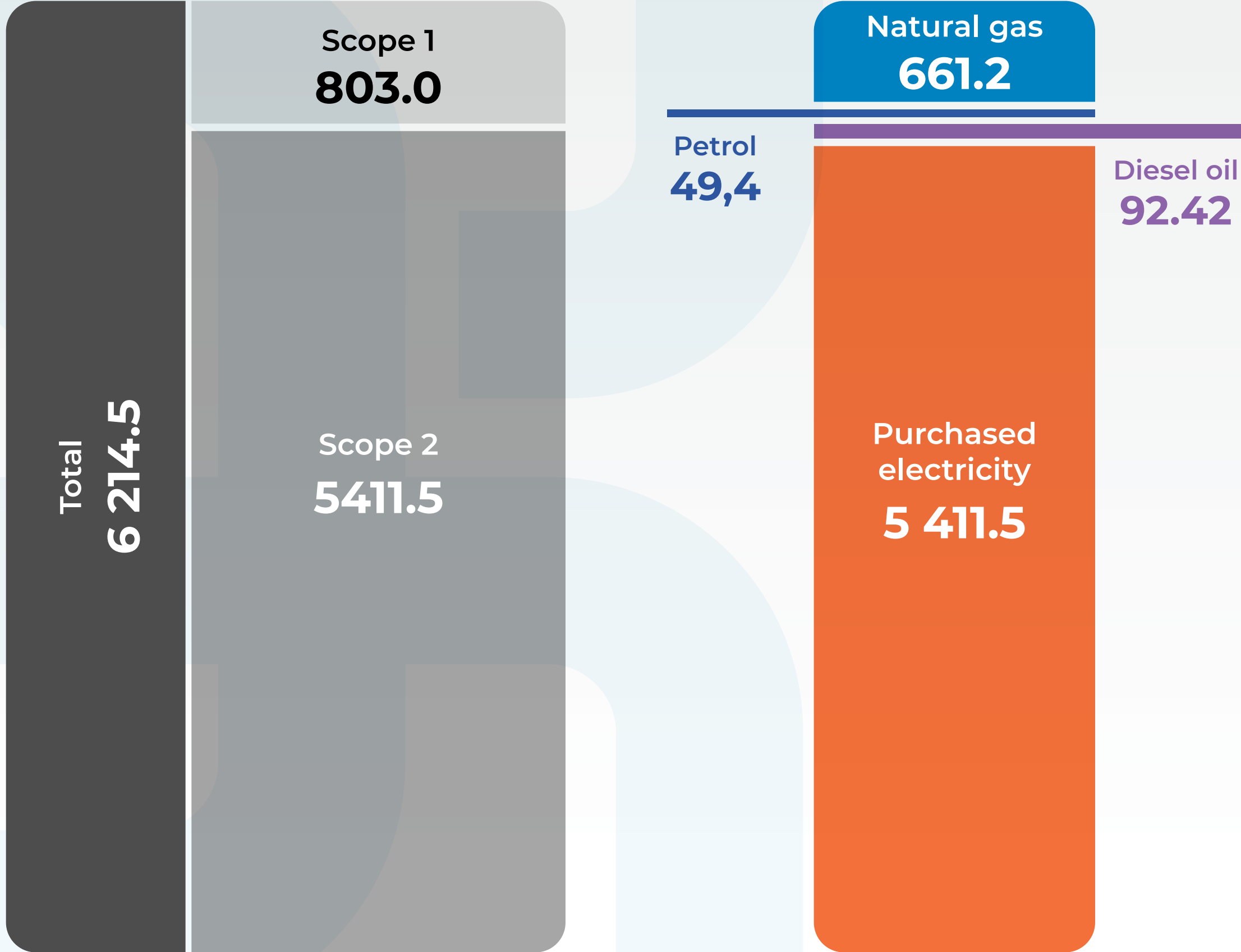
- Scope 1** **On-site (direct) emissions by the company,** such as natural gas combustion, production technology emissions, transport vehicle emissions, etc.
- Scope 2** **Indirect emissions,** such as electricity, district heating, steam, etc., which are generated elsewhere, but the company is responsible for emissions on account of their use.
- Scope 3** **Indirect emissions beyond the company’s control,** but the company is responsible on account of their use, such as waste processing, waste water treatment, public transport, etc.

3. Total Scope 1 and 2 emissions of the company, t CO₂e/year

Total Scope 1 and 2 emissions of the company in FY 2023, t CO₂e/year

Scope	Emission sources	t CO ₂ /year	t CH ₄ /year	t N ₂ O /year	t CO ₂ e/year	%
Scope 1	Natural gas	661.18	0.0118	0.0012	661.2	10.6%
	Petrol	49.44	0.0021	0.0004	49.4	0.8%
	Diesel oil	92.42	0.0037	0.0007	92.4	1.5%
	Forklift fuel gas	–	–	–	–	0%
	Total	803.04	0.0177	0.0024	803.0	12.9%
Scope 2	Purchased electricity	5 411.48	–	–	5411.5	87.1%
Total		6 214.52	0.0177	0.0024	6214.5	100%

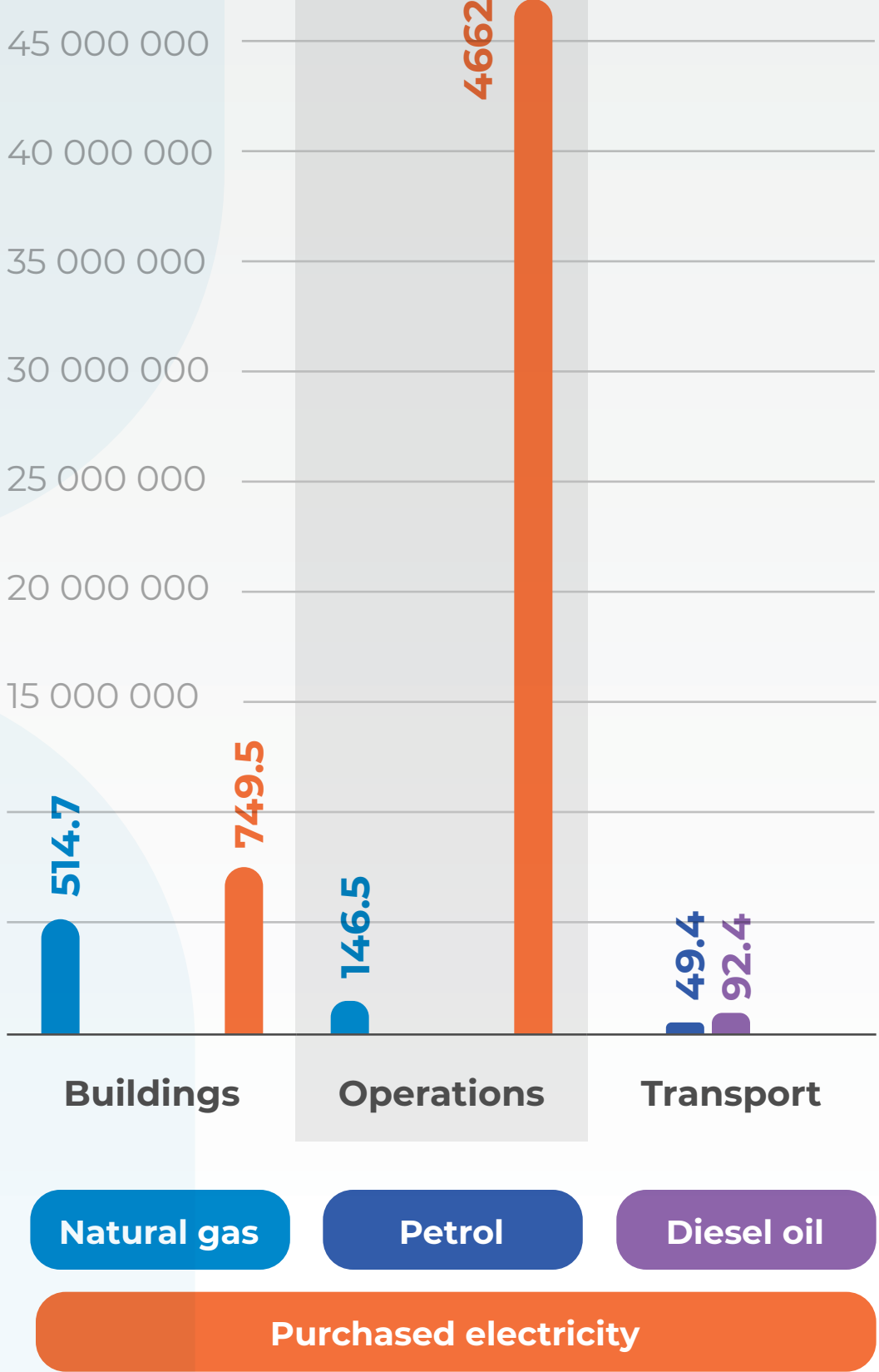
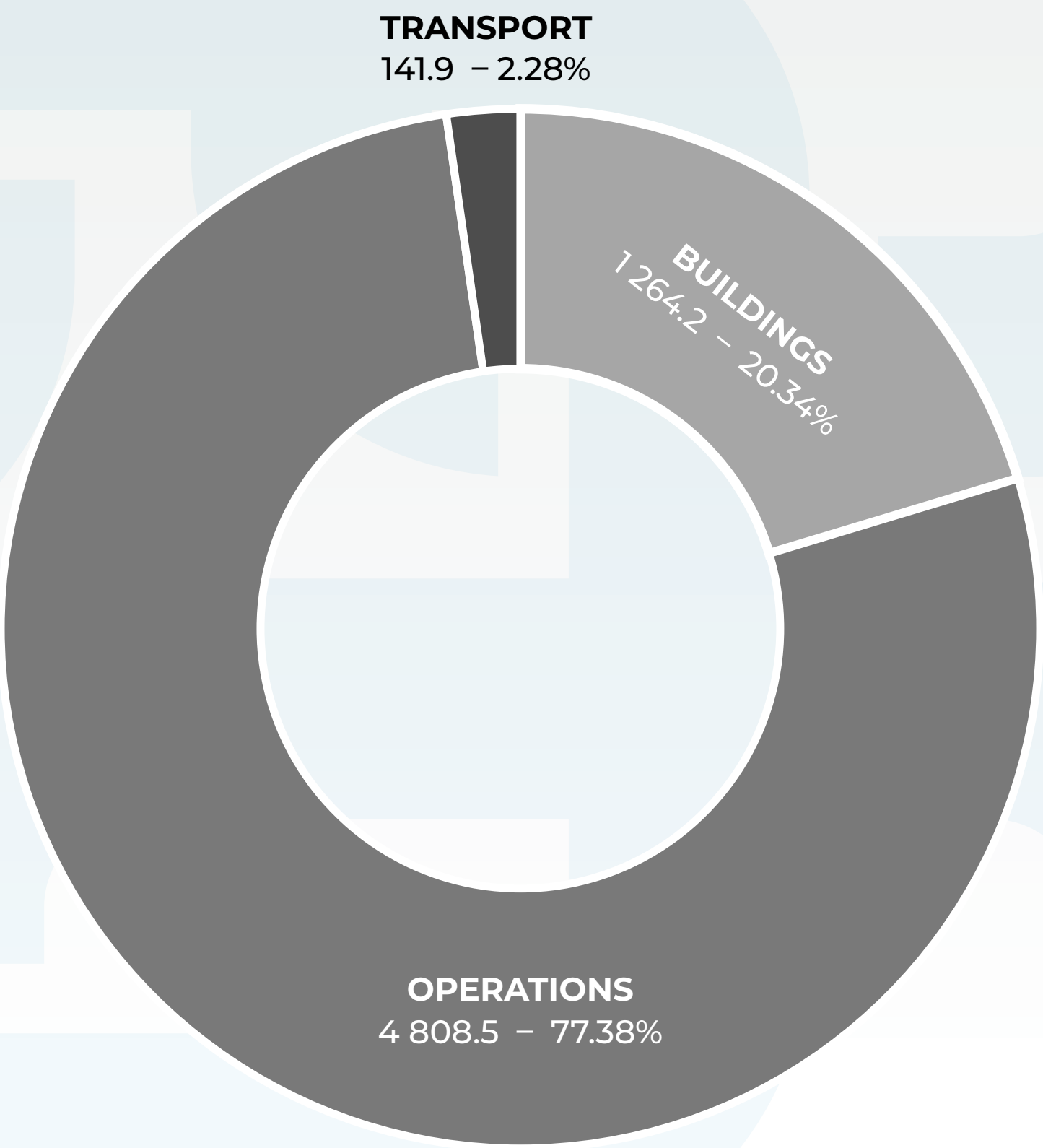
Total annual Scope 1 and 2 emissions of the sites	t CO ₂ e/year	%
Scope 1	803.0	12.9%
Scope 2	5 411.5	87.1%
Total	6 214.5	100%



Scope 1 and 2 emissions of the company in FY 2023, t CO₂e/year

Scope	t CO ₂ e/year		Company Total	Buildings	Operations	Transport
Scope 1	Natural gas	10.6%	661.2	514.7	146.5	-
	Petrol	0.8%	49.4	-	-	49.4
	Diesel oil	1.5%	92.4	-	-	92.4
	Forklift fuel gas	0%	-	-	-	-
	Total	12.9%	803.0	514.7	146.5	141.9
Scope 2	Purchased electricity	87.1%	5 411.5	749.5	4 662.0	-
Total		100%	6 214.5	1 264.2	4 808.5	141.9

Total annual Scope 1 and 2 emissions of the company, t CO₂e/year



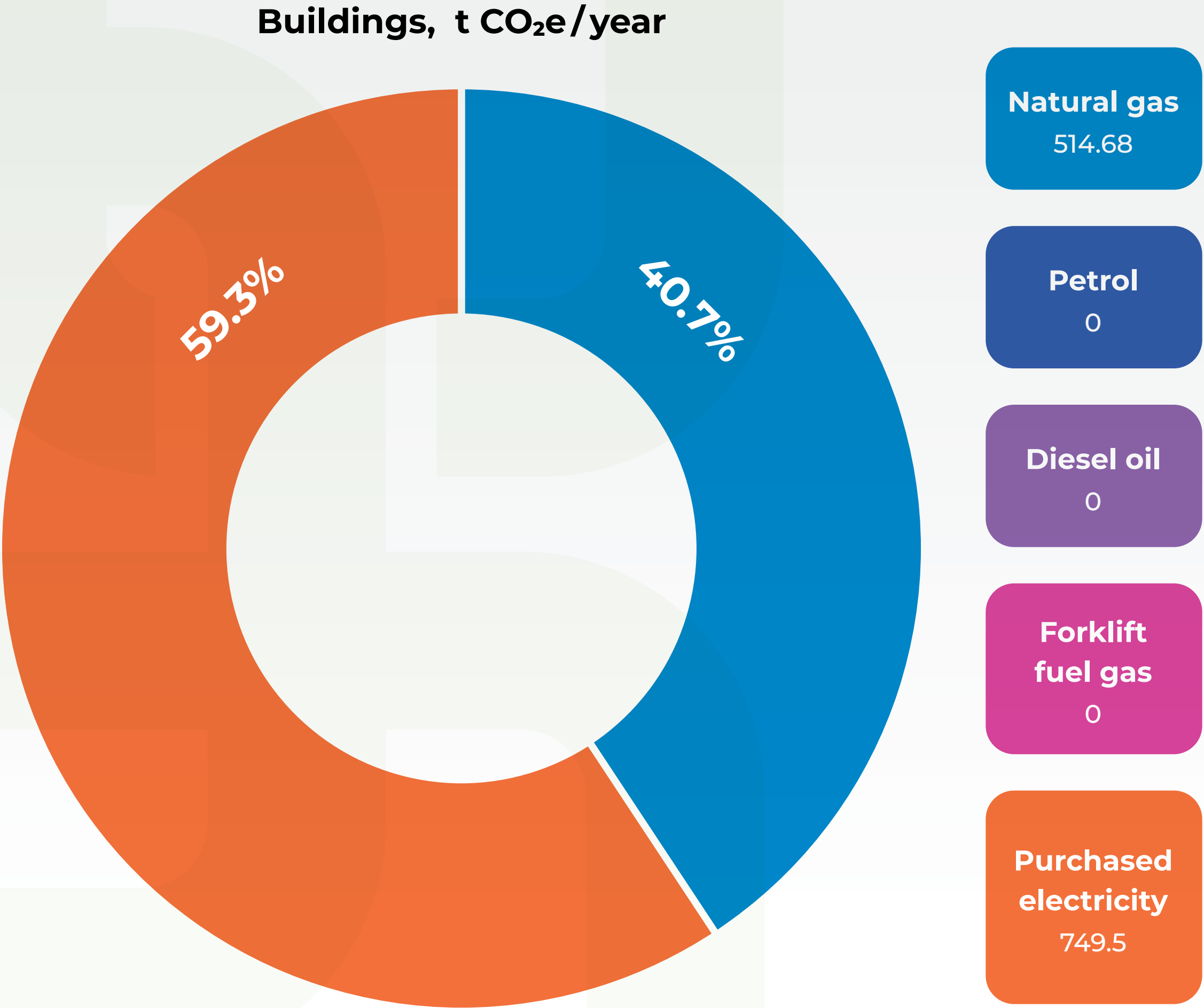
The shades of red indicate particularly high energy use.

4. Scope 1 and 2 emissions of the company, t CO₂e/year

4.1 Scope 1 and 2 emissions of buildings

Scope	Emission sources	t CO ₂ /year	t CH ₄ /year	t N ₂ O /year	t CO ₂ e/year	%
Scope 1	Natural gas	514.67	0.0092	0.0009	514.68	40.7%
	Petrol	–	–	–	0	0%
	Diesel oil	–	–	–	0	0%
	Forklift fuel gas	–	–	–	0	0%
	Total	514.67	0.0092	0.0009	514.68	40.7%
Scope 2	Purchased electricity	749.5	–	0	749.5	59.3%
Total		1264.17	0.0092	0.0009	1264.18	100%

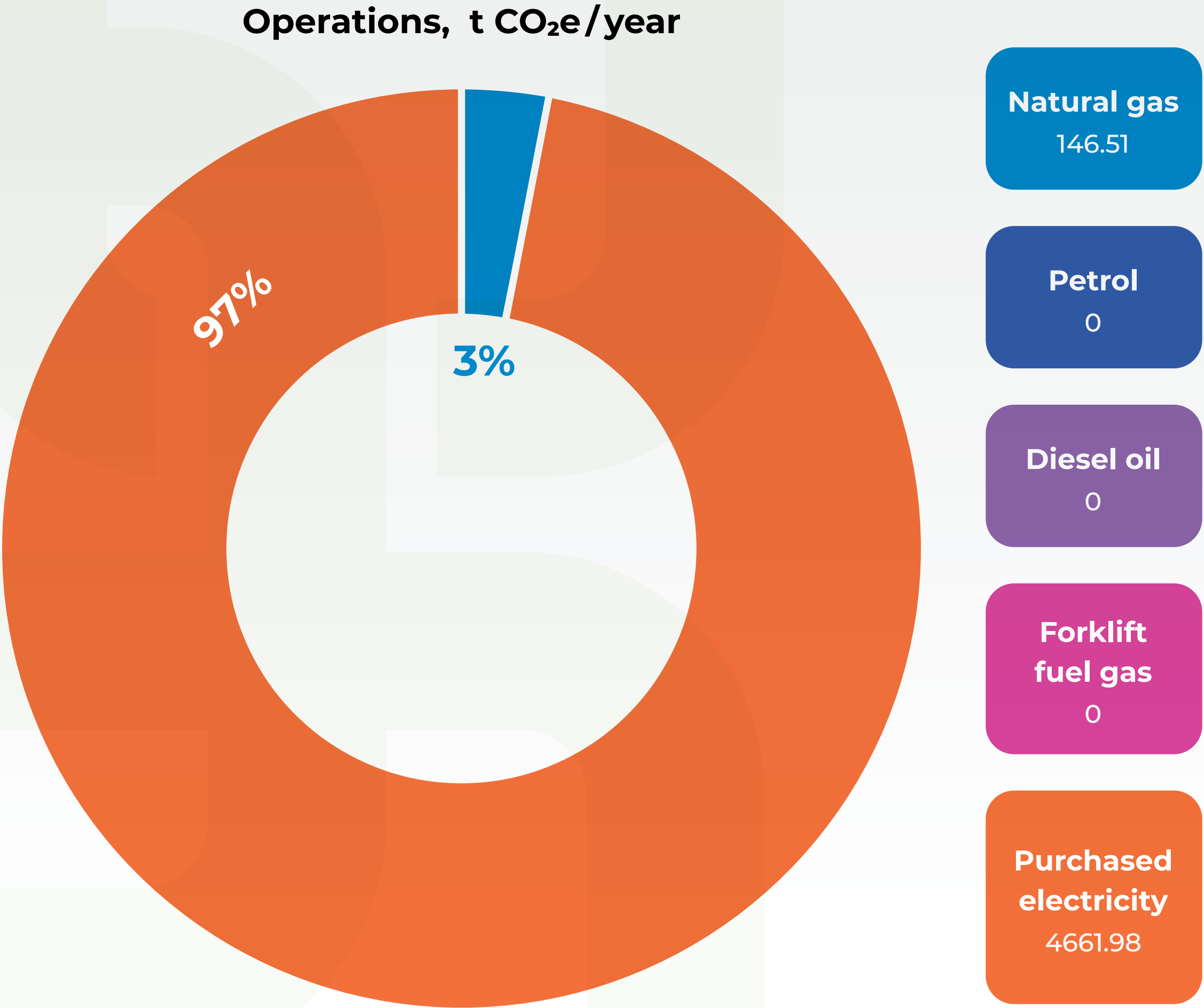
Total emissions	t CO ₂ /year	%	
Scope 1	514.68	40.71%	
Scope 2	749.50	59.29%	
Total	1264.18	100%	



4.2 Scope 1 and 2 emissions of operations

Scope	Emission sources	t CO ₂ /year	t CH ₄ /year	t N ₂ O /year	t CO ₂ e/year	%
Scope 1	Natural gas	146.51	0.0026	0.0003	146.51	3%
	Petrol	–	–	–	–	0%
	Diesel oil	–	–	–	–	0%
	Forklift fuel gas	–	–	–	–	0%
	Total	146.51	0.0026	0.0003	146.51	3%
Scope 2	Purchased electricity	4661.98	–	–	4661.98	97%
Total		4808.49	0.0026	0.0003	4808.49	100%

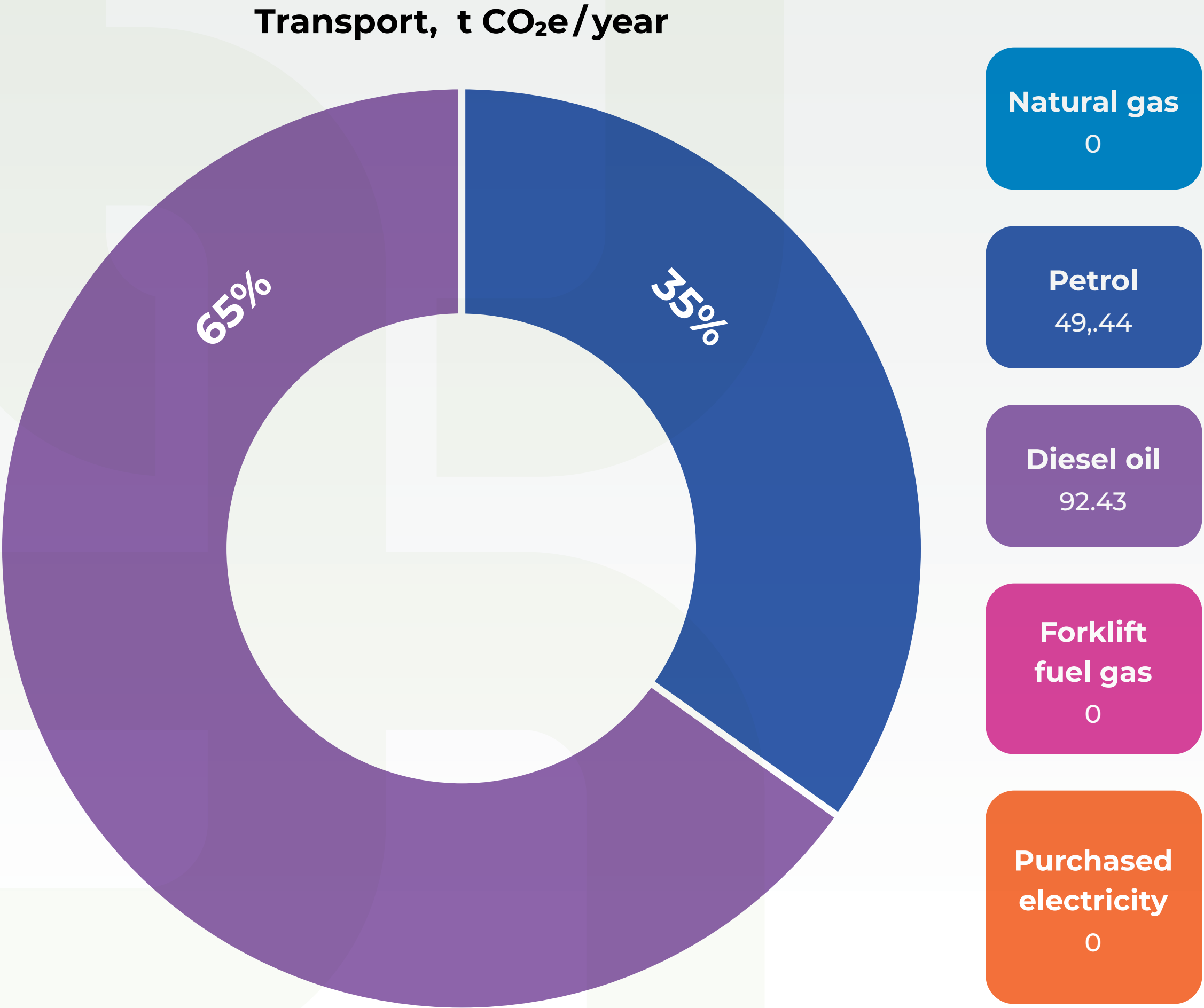
Total emissions	t CO ₂ /year	%	
Scope 1	146.51	3%	
Scope 2	4 661.98	97%	
Total	4 808.49	100%	



4.3 Scope 1 and 2 emissions of transport

Scope	Emission sources	t CO ₂ /year	t CH ₄ /year	t N ₂ O /year	t CO ₂ e/year	%
Scope 1	Natural gas	–	–	–	–	0%
	Petrol	49.44	0.0021	0.0004	49.44	34.9%
	Diesel oil	92.42	0.0037	0.0007	92.43	65.1%
	Forklift fuel gas	–	–	–	–	0%
	Total	141.86	0.0059	0.0012	141.87	100%
Scope 2	Purchased electricity	–	–	–	–	0%
Total		141.86	0.0059	0.0012	141.87	100%

Total emissions	t CO ₂ /year	%	
Scope 1	141.87	100%	
Scope 2	0	0%	
Total	141.87	100%	





**CREDIT
MANAGEMENT
GROUP**

CMG CARBON

I, the undersigned auditor, hereby declare that the Scope 1 and 2 emission values in this report were calculated based on the energy and fuel consumption data supplied by the company.

18 September 2024

György Sitku
energy auditor
EA-01-23/2016 • CMG Carbon Kft.