Public

Carabao Group's Greenhouse Gas Emissions

(GRI 305-1,305-2, 305-3)

The Thai government has announced a target to achieve carbon neutrality by 2050 and Net Zero Greenhouse Gas Emissions in 2065. Carabao Group is one of the business organizations that drive its operations to achieve this goal by collecting data and studying how to improve, so that the Group's beverage production will have minimal greenhouse gas emissions and maximum energy efficiency.

In 2022, Carabao Group received Carbon Footprint for Organization (CFO) certification for quantitative measurement of greenhouse gas emissions from various activities of the organization by considering both direct greenhouse gas emissions (Scope 1) that are direct activities of the organization, including production, transportation, etc., and indirect greenhouse gas emissions from energy consumption (Scope 2), such as purchasing energy for use in the organization, such as electric, heat, steam, and other indirect greenhouse gas emissions (Scope 3), such as employee travel in non-corporate vehicles, out-of-office seminar commute, office supply usage. The benefit of CFO is that the organization can assess the amount of greenhouse gases emitted from its activities, find the causes of significant greenhouse gas emissions and ways to reduce carbon footprint. The reduced amount of greenhouse gases may be sold as carbon credits or carbon offset with other organizations.

The Company works to raise awareness among employees about greenhouse gas emissions and creates network with key stakeholders such as the Thailand Greenhouse Gas Management Organization, Public Organization (TGO), which certified the collection and disclosure of Corporate Carbon Footprint or CFO in 2022 for the 2021 Greenhouse Gas Data, all the environmental indicators disclosed to the public are certified by internationally credible bodies to ensure accuracy and transparency to stakeholders.

Carabao Group is also in the process of registering its Carbon Footprint for Products (CFP) for its main products. The carbon footprint mark affixed on product labels is an indication to consumers of how much greenhouse gases are emitted throughout the life cycle of those products from the process of acquisition of raw materials, production process, distribution, use, and waste management after expiration date. This will help in consumers' purchasing decisions and encourage entrepreneurs to change their production technology to be more environmentally friendly. The use of carbon footprint also increases competitiveness in the global market, as carbon footprint has already been adopted in many countries such as the UK, France, Switzerland, Canada, Japan, and Korea, and there are demands for products imported from Thailand to bear the carbon footprint mark. This will make operations to enter foreign markets more convenient.

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Total Greenhouse Gas Emissions

	Direct Greenhouse Gas	Indirect Greenhouse Gas	Indirect Greenhouse Gas
	Emissions (Scope 1)	Emissions (Scope 2)	Emissions (Scope 3)
CBG-HQ	1.40%	3.30%	0.36%
CBD	7.54%	24.23%	2.68%
APG	75.48%	48.88%	5.41%
ACM	3.29%	19.86%	55.98%
APM	0.17%	3.22%	35.51%
DCM	12.13%	0.50%	0.06%
Total	100%	100%	100%

Indiactore	Lipit			Results	
indicators	Onit	2019	2020	2021	2022
Total greenhouse gas emissions	Metric tonnes of carbon dioxide equivalent	-	-	59,897.00	197,878.00
- Direct greenhouse gas emissions (Scope 1) (GRI 305-1)	Metric tonnes of carbon dioxide equivalent	-	-	15,838.00	81,903.00
- Indirect greenhouse gas emissions (Scope 2; Location-based) (GRI 305-2)	Metric tonnes of carbon dioxide equivalent	-	-	42,761.00	41,647.00
- Indirect greenhouse gas emissions (Scope 3) (GRI 305-3)	Metric tonnes of carbon dioxide equivalent	-	-	1,298.00	74,328.00
Data Coverage (as % of operation sites)	Percentage	-	-	100	100

Remark

1. Greenhouse gas emission data is certified by LRQA (Thailand) Co., Ltd.

2. The scope of greenhouse gas emission data from 2021 and 2022 are the data of all subsidiaries of Carabao Group Public Company Limited.

3. Direct greenhouse gas emissions (Scope 1) are caused by the sum of activity groups with mobile combustion, stationary combustion, wastewater treatment, raw material combustion, and seepage/leakage.

4. Indirect greenhouse gas emissions (Scope 2) originate from electricity consumption.

5. As our first year, the 2021 data collection was not sufficient as it should be. So for 2022, we have focused more on the detailed data collection, which was more wholesome and credible. However, it resulted in rising greenhouse gas emissions. The Carabao Group will use the greenhouse gas emissions in 2022 as a base year for future operations.

Indirect Greenhouse Gas Emissions (Scope 3)

Seene 2 Catagony	Linit		Perfor	mance		Emissions Calculation Methodology and
Scope 5 Calegory	Onit	2019	2020	2021	2022	Exclusions
1. Purchased Goods and Services	Metric tonnes of carbon dioxide equivalent	-	-	-	66,103.86	Emissions are calculated using raw data collection from can and packaging production on spend- based method which was evaluated as significant. This is multiplied by the emission factor of the Thailand Greenhouse Gas Management Organization (Public Organization).
2. Fuel-and-energy-related activities (from electricity consumption)	Metric tonnes of carbon dioxide equivalent	-	-	-	8,223.23	Emissions are calculated using raw data collection from electricity consumption on location-based method which was evaluated as significant. This is multiplied by 0.4999 tons of carbon dioxide equivalent per kilowatt-hour (tCO2e/kWh), the emission factor of the Thailand Greenhouse Gas Management Organization (Public Organization).
3. Waste generated in operations	Metric tonnes of carbon dioxide equivalent	-	-	139.52	74.32	Emissions are calculated using raw data collection from general waste volume on waste-type-specific method. The emission factor is sourced from the Thailand Greenhouse Gas Management Organization (Public Organization). It is not significant compared to overall emissions. This type of emission will be collected and calculated in the future.

4. Business Travel	Metric tonnes of carbon dioxide equivalent	-	-	91.92	104.08	Emissions are calculated using raw data collection from traveling by plane on distance-based method. The emission factor is sourced from the Thailand Greenhouse Gas Management Organization (Public Organization). It is not significant compared to overall emissions. This type of emission will be collected and calculated in the future.
5. Employee commuting	Metric tonnes of carbon dioxide equivalent	-		-	3,717.67	Emissions are calculated using raw data collection from employee survey on distance-based method. A survey was sent to all employees that asked for their main mode of travel, distance to work and fuel type consumption. The emission factor is sourced from the Thailand Greenhouse Gas Management Organization (Public Organization). It is not significant compared to overall emissions. This type of emission will be collected and calculated in the future.

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GHG Emissions Third Party Verification

Since 2021, CBG has submitted GHG data to Thailand Greenhouse Gas Management Organization (TGO) for Carbon Footprint for Organization (CFO), which was our intention to disclose and monitor our GHG emission performance. In 2022, CBG has been certified for CFO and expanded to Carbon Footprint of Products (CFP) for 5 of our products, which are Carabao Energy Drink 150 ml. (Glass Bottle), Carabao Energy Drink 250 ml. (Aluminum Can), KANZOU X2 150 ml. (Glass Bottle), Woody C+ Lock Lemon 140 ml. and Woody C+ Lock Collagen 2,000 mg. Mixed Berry Flavour 140 ml.

21625	THAILAND GREENHOUSE GAS
rganization	MANAGEMENT ORGANIZATION (Public Organization)
CERT	TIFICATE
Av	warded to
Carabao Gro	pup Public Co., Ltd.
Company address verified: 393, 393 S	illom Building 7th - 10th floor, Silom Road Silom
Bangrak Ban	ıgkok, Thailand 10500
Thailand Greenhouse Gas Ma	anagement Organization certifies that
the quantity of Greenhouse Gas of	f the above organization has been verified
by LRQA (The	HAILAND) LIMITED
and found to be in accordance with the	e requirements of the standard detailed below.
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TGO Guidance of the Car	rbon Footprint for Organization
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TGO Guidance of the Car	rbon Footprint for Organizatior
Verification Period:	[01/01/2022 - 31/12/2022]
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TGO Guidance of the Car	rbon Footprint for Organization
Verification Period:	[01/01/2022 - 31/12/2022]
Total Greenhouse Gas Emission (2010)	Scope 1&2): 123,550 tonCO2e/year
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TGO Guidance of the Car	rbon Footprint for Organization
Verification Period:	[01/01/2022 - 31/12/2022]
Total Greenhouse Gas Emission (Scope 1&2): 123,550 tonCO2e/year
Direct GHG emissions	81,903 tonCO2e/year
Str	andard
TGO Guidance of the Car	rbon Footprint for Organization
Verification Period:	[01/01/2022 - 31/12/2022]
Total Greenhouse Gas Emission (Scope 1&2): 123,550 tonCO2e/year
Direct GHG emissions	81,903 tonCO2e/year
Energy Indirect GHG emissions	41,647 tonCO2e/year
Other Indirect GHG emissions	74,328 tonCO2e/year
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TGO Guidance of the Car	rbon Footprint for Organization
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The agreed level of assurant	nce is: Limited, at materiality of 5%
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TGO Guidance of the Car	rbon Footprint for Organization
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TGO Guidance of the Car	rbon Footprint for Organization
Verification Period:	[01/01/2022 - 31/12/2022]
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