

Greenhouse Gas Emissions Inventory

Accordingto The Greenhouse Gas Protocol A Corporate Accounting and Reporting Standard REVISED EDITION

DONGGUAN KAYO BATTERY CO., LTD.

2023



Report edited by CIRS GROUP Editor: Guangping Chen Checker: Charles Chang Date: 28/03/2024





REQUIRED INFORMATION

KAYO BATTERY INTRODUCTION

KAYO BATTERY Co., Ltd. was established in 1999 and specializes in the research, manufacture, and distribution of high-performance and environmentally friendly lithium-ion batteries. Their product line includes li-ion polymer batteries, li-ion cylindrical batteries, LiFePO4 batteries, and various kinds of battery packs.

DONGGUAN KAYO BATTERY Co.,LTD was established in 2017, with the maind production area about 20000 m².We absorbed the advanced management experiences in R & D, Production and Quality control, due to our company's good business mentality and correct of marketing strategy, we have gained a stable and sustaining growing through these years.

We keep a good friendship with our supplier and have strategy cooperation in the special area, in order to demand the increasing of production capacity; we established Hunan Factory specialized in cells' manufacture in 2014.

We have strict and sophisticated quality guarantee system and passed the ISO 9001:2008 and ISO14000: 2004 certifications. Most importantly, our battery products obtained UL, CB, KC, PSE, 3C, CE, FCC, UN38.3, RoHS and other international certificates.

Our marketplace has cover all over the world, including Europe, North America, South America, Southeast Asia, Taiwan, Korea and mainland China. We cooperated with some well-known companies, likes Honeywell, Philips, SAMSUNG, Toshiba, NTT, Huawei and Greatwall.

SCOPE OF THIS REPORT

KAYO's Greenhouse Gas Emissions Inventory Report in 2023 edited according to The Greenhouse Gas Protocol A Corporate Accounting and Reporting Standard REVISED EDITION.

The scope of data as presented in this report includes direct (Scope 1), indirect energy (Scope 2), and other indirect(Scope 3) emissions from DONGGUAN KAYO BATTERY CO.,LTD. for the period from 1/January/2023 to 31/December/2023.

Have any facilities, operations and/or emissions sources been excluded from this inventory? If yes, please specify.				
No				
Reporting period covered by this inver	ntory			
From 2023-01-01 to 2023-12-31				
ORGANIZATIONAL BOUNDARIES				
Which consolidation approach was chosen (check each consolidation approach for which your company is reporting emissions.) If your company is reporting according to more than one consolidation approach, please complete and attach an additional completed reporting template that provides your company's emissions data following the other consolidation approach (es).				
Equity Share	Financial Control Operational Contro			

OPERATIONAL BOUNDARIES

Are Scope 3 emissions included in this inventory?			
yes 🖂			
no 🗌			
If yes, which types of activities are included in Scope 3 emissions?			
Category 1: Purchased goods and services			







Category 4: Upstream transportation and distribution

Category 5: Waste generated in operations

Category 6: Business travel

Category 7: Employee commuting

Category 9: Downstream transportation and distribution

INFORMATION ON EMISSIONS

The table below refers to emissions independent of any GHG trades such as sales, purchases,

transfers, or banking of allowances

EMICCIONC	TOTAL	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	NF ₃
EMISSIONS	(mtCO ₂ e)	(mt)	(mt)	(mt)	(mt)	(mt)	(mt)	(mt)
Scope 1	172.3082	62.5510	39.6837	0.6835	69.3900	0.0000	0.0000	0.0000
Scope 2	608.1634	608.1634	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Scope 3 (OPTIONAL)	10071.6607	10071.6607	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Direct CO2 emissions from Biogenic combustion ($mtCO_2$) None

BASE YEAR

Year chosen as base year							
2022	2022						
Clarification of com	pany-determined pol	icy for makin	g base year	emissions re	calculations		
None	None						
Context for any sign	nificant emissions cha	anges that tri	igger base ye	ear emission	s recalculatio	ons	
None	None						
Base year emissions							
EMICCIONC	TOTAL	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	SF ₆
EMISSIONS	(mtCO ₂ e)	(mt)	(mt)	(mt)	(mt)	(mt)	(mt)
Scope 1	127.4907	79.5451	39.5156	0.7508	7.6792	0.0000	0.0000
Scope 2	434.6393	434.6393	0.0000	0.0000	0.0000	0.0000	0.0000
Scope 3	12025 1250	12025.13	0.0000	0.0000	0.0000	0 0000	0.0000
(OPTIONAL)	12025.1358	58	0.0000	0.0000	0.0000	0.0000	0.0000
METHODOLOGIES AND EMISSION FACTORS							

Methodologies used to calculate or measure emissions other than those provided by the GHG Protocol. (Provide a reference or link to any non-GHG Protocol calculation tools used) None

Optional Information

ORGANIZATIONAL BOUNDARIES





List of all legal entities or facilities over which reporting company has equity share, financial control or operational control	% equity share in legal entity	Does reporting company have financial control?(yes/no)	Does reporting company have operational control? (yes/no)
DONGGUAN KAYO BATTERY CO.,LTD.	100	yes	yes

If the reporting company's parent company does not report emissions, include an organizational diagram that clearly defines relationship of the reporting subsidiary as well as other subsidiaries Not Applicable

INFORMATION ON EMISSIONS

Emissions disaggregated by source types			
Scope 1: Direct Emissions from Owned/Controlled Operations	mtCO2e		
a. Direct Emissions from Stationary Combustion	41. 4653		
b. Direct Emissions from Mobile Combustion	21. 9989		
c. Direct Emissions from Process Sources	0.0000		
d. Direct Emissions from Fugitive Sources	108.8440		
e. Direct Emissions from Agricultural Sources	0.0000		
Scope 2: Indirect Emissions from the Use of Purchased Electricity,	mtCO2e		
Steam, Heating and Cooling			
a. Indirect Emissions from Purchased/Acquired Electricity	608.1634		
b. Indirect Emissions from Purchased/Acquired Steam	0.0000		
c. Indirect Emissions from Purchased/Acquired Heating	0.0000		
d. Indirect Emissions from Purchased/Acquired Cooling	0.0000		

 Emissions disaggregated by facility (recommended for individual facilities with stationary combustion emissions over 10,000 mtCO2e)

 Facility
 Scope 1 emissions mtCO2e

 None
 None

Emissions disaggregated by country/area			
Country/Area	Emissions (specify Scopes included) mtCO2e		
Dongguan City, Guangdong	10852.132		
Province, China			

Emissions attributable to own generation of electricity, heat, or steam that is sold or transferred to another organization None

Emissions attributable to the generation of electricity, heat or steam that is purchased for re-sale to non-end users None

Emissions from GHGs not covered by the Kyoto Protocol (e.g., CFCs, NOx,)

None





Information on the causes of emissions changes that did not trigger a base year emissions recalculation (e.g., process changes, efficiency improvements, plant closures)

None

GHG emissions data for all years between the base year and the reporting year (including details of and reasons for recalculations, if appropriate)

2022, 12587.266 mtCO2e

2023, 10852.132 mtCO2e

Relevant ratio performance indicators (e.g. emissions per kilowatt-hour generated, sales, etc.)

Floorspace Intensity (kgCO₂e/m²) : 1339.769 kgCO₂e/m²

Floorspace Reference (m^2) : 8100 m^2

An outline of any GHG management/reduction programs or strategies

1, From the base year of 2022, KAYO has adopted "CIRS Carbon Cloud" for its emisson factors and activity data management.

2, KAYO has planned to start using renewable electricity starting in 2024.

3, KAYO planned to involve its supply chain in carbon reduction and aims to start using recycled and bio-based materials in 2024.

ADDITIONAL INFORMATION

Information on any contractual provisions addressing GHG-related risks and obligations None

An outline of any external assurance provided and a copy of any verification statement, if applicable, of the reported emissions data.

None

Information on the quality of the inventory (e.g., information on the causes and magnitude of uncertainties in emission estimates) and an outline of policies in place to improve inventory quality None

Information on any GHG sequestration
None

INFORMATION ON OFFSETS

Information on offsets that have been purchased or developed outside the inventory boundary				
		Were the offsets verified/certified and/or		
Quantity of GHGs (mtCO2e)	Type of offset project	approved by an external GHG program		
		(e.g., CDM)		
None None		None		





 Information on reductions inside the inventory boundary that have been sold/transferred as offsets to a third party.

 Quantity of GHGs (mtCO2e)
 Type of offset project
 Were the offsets verified/certified and/or approved by an external GHG program (e.g., CDM)

 None
 None
 None

