

Greenhouse Gas Verification Opinion

The inventory of Greenhouse Gas emissions in year 2024 of

Dongguan Tymphany Acoustic Technology Co., Ltd.

Unit 9, No.135, Shijie Keji East Road, Shijie Town,
Dongguan City, Guangdong Province, China

has been verified in accordance with ISO 14064-3:2019 as meeting the requirements of

ISO 14064-1:2018

Opinion Type: Modified

Direct emissions

195.4737 tonnes of CO_{2e}

Indirect emissions

138,244.9388 tonnes of CO_{2e}

Direct emissions and indirect emissions

138,440.413 tonnes of CO_{2e}

Authorized by



Stephen Pao

Business Assurance Director

Date: 23 May 2025

Version 1

TGP56B-15-1 2501
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The emission of each category is described as below:

Unit: tonnes of CO₂e

Reporting Boundaries		GHG Emissions		
Inventory categories	Description	Location-based	Market-based	
Direct emissions	Direct emissions from stationary combustion	49.8319		
	Direct emissions from mobile combustion	0.0000		
	Direct process emissions and removals from industrial processes	0.0000		
	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	145.6418		
	Direct emissions and removals from land use, land use change and forestry	0.0000		
Indirect emissions	Imported energy	4,403.4217	2,096.0417	
	Transportation	Indirect emissions from upstream transport and distribution of martial	22.2957	
		Indirect emissions from downstream transport and distribution of goods	29.4445	
		Indirect emissions from employee commuting	35.9383	
		Indirect emissions from Business Travel	79.7314	
	Products used by an organization	Indirect emissions of raw materials and consumables related to production and purchase in the factory	62,674.7962	
		Indirect emissions from waste outsourcing treatment and transportation	163.7536	
		Indirect emissions from the upstream use of electricity and fuel	1,064.9580	
	Associated with the use of products from the organization	Indirect emissions from product use	69,770.5994	
Other sources	No significant emissions	NA		
Direct emissions and indirect emissions		138,440.413	136,133.033	

Purchased Renewable Energy Certificate(s) Information				
Site/Location	Type	Renewable Energy Source/Location	Imported energy emissions	
			Location-based	Market-based
Tymphany_DG	GEC	Solar/China	4,403.4217	2,096.0417

SGS has been contracted for the verification of direct and indirect Greenhouse Gas emissions in accordance with

ISO 14064-3:2019

as provided by Dongguan Tymphany Acoustic Technology Co., Ltd. (hereinafter referred to as “Tymphany_DG”), Unit 9, No.135, Shijie Keji East Road, Shijie Town, Dongguan City, Guangdong Province, China, in the GHG Statement in the form of GHG report.

Roles and responsibilities

- The management of Tymphany_DG is responsible for the organization’s GHG information system, the development and maintenance of records and reporting procedures in accordance with that system, including the calculation and determination of GHG emissions information and the reported GHG emissions.
- The verification was based on the verification scope, objectives and criteria as agreed on 24 July 2023 and 20 December 2024.
- Verification Criteria: ISO 14064-1:2018
- Verification Period: 21 February 2025 to 24 March 2025.

Scope

- GHG information for the following period was verified: 01 January 2024 to 31 December 2024
- Location/boundary of the activities:
 - Unit 9, No.135, Shijie Keji East Road, Shijie Town, Dongguan City, Guangdong Province, China
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- The IPCC 2021 AR6 GWP values are applied in this inventory.
- Emission factor:
 - Direct emissions: Greenhouse Gas Emission Factor Table (6.0.4)
 - Indirect emissions:
 - Electricity emission factor is 0.5366 kgCO₂e/kwh (Announced by Ministry of Ecology and Environment, China in 2024).
 - The secondary database has Carbon Footprint Information Platform, China LCA database (2022) · U.S. LCI Database · Ecoinvent 2.2 · Ecoinvent 3.9.1 · ICAO Carbon Emissions Calculator

- The level of assurance for category 1 and category 2 agreed is that of reasonable assurance. Category 3 till category 6 agreed is that of limited assurance.
- Materiality : 5%
- The version of inventory sheet: 20250324
- The version of GHG statement: 20250324
- Intended user of the verification opinion: Private

Objective

The purposes of this verification exercise are, by review of objective evidence, to independently review:

- Whether the GHG emissions are as declared by the organization's GHG statement
- The data reported are accurate, complete, consistent, transparent and free of material error or omission.

Conclusion

SGS's approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions information and the controls in place to mitigate these. Our examination includes assessment, on a test basis, of evidence relevant to the amounts and disclosures in relation to the organization's reported GHG emissions. We planned and performed our work to obtain the information, explanations and evidence that the GHG emissions are free from material misstatement.

- The greenhouse gas emissions is 138,440.413 metric tonnes of CO₂ equivalent
- The emissions from the combustion of biomass is 0.0000 metric tonnes of CO₂ equivalent

The emission of each category is described as below:

Unit: tonnes of CO₂e

Reporting Boundaries		GHG Emissions	
Inventory categories	Description	Location-based	Market-based
Direct emissions	Direct emissions from stationary combustion	49.8319	
	Direct emissions from mobile combustion	0.0000	
	Direct process emissions and removals from industrial processes	0.0000	
	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	145.6418	
	Direct emissions and removals from land use, land use change and forestry	0.0000	

Indirect emissions	Imported energy	Indirect emissions from imported electricity	4,403.4217	2,096.0417
	Transportation	Indirect emissions from upstream transport and distribution of martial	22.2957	
		Indirect emissions from downstream transport and distribution of goods	29.4445	
		Indirect emissions from employee commuting	35.9383	
		Indirect emissions from Business Travel	79.7314	
	Products used by an organization	Indirect emissions of raw materials and consumables related to production and purchase in the factory	62,674.7962	
		Indirect emissions from waste outsourcing treatment and transportation	163.7536	
		Indirect emissions from the upstream use of electricity and fuel	1,064.9580	
	Associated with the use of products from the organization	Indirect emissions from product use	69,770.5994	
	Other sources	No significant emissions	NA	
Direct emissions and indirect emissions			138,440.413	136,133.033

Tymphany_DG purchased 4,300 Renewable Energy Certificate(s) in 2024. The imported energy emissions by location-based and market-based approach shown as the following table :

Unit: tonnes of CO_{2e}

Purchased Renewable Energy Certificate(s) Information				
Site/Location	Type	Renewable Energy Source/Location	Imported energy emissions	
			Location-based	Market-based
Tymphany_DG	GEC	Solar/China	4,403.4217	2,096.0417

- The opinion of SGS is modified in accordance with the following described circumstances.
 - The verifier has sufficient and appropriate evidence to support the material emissions, removals, or storage.
 - The verifier applies appropriate criteria for the material emissions, removals, or storage.

- When the verifier intends to rely on relevant controls, the effectiveness of those controls has been assessed.
- The verifier, applying the ISO 14064-1:2018 standard, presents the following findings. After adjustments and corrections, no material errors were identified.
 - Correction of certain activity data.
- Retention Limitation: NA

Confidentiality

The reports and attachments may contain relevantly confidential information of the clients. In addition to being submitted as governmental application or certification documents, the reports and attachments are not allowed to be edited, duplicated, or published without the clients' agreement in written form.

Avoidance of Conflict of Interest

The reports and attachments are completely complied with the standards and procedures that related authorities established. The reports and attachments of auditing process are conduct with fairness and honesty. If not, the auditing institution not only has to bear the relevant compensation duties, but also to receive legal charge and punishment.

This opinion shall be interpreted with the GHG statement of Tymphany_DG as a whole.

Verifier Group

Above opinions coincide with auditing process with fairness and impartiality and aim at the emission of year 2024 of clients.

Lead Verifier: *Charming Chen*

Verifier: *Chris Hsia*

Note: This opinion is issued, on behalf of Client, by SGS Taiwan Ltd. ("SGS") under its General Conditions for Greenhouse Gas Verification Services available at http://www.sgs.com/terms_and_conditions.htm. The findings recorded hereon are based upon an audit performed by SGS. A full copy of this opinion, the findings and the supporting GHG Statement may be consulted at Dongguan Tymphany Acoustic Technology Co., Ltd., Unit 9, No.135, Shijie Keji East Road, Shijie Town, Dongguan City, Guangdong Province, China., This opinion does not relieve Client from compliance with any bylaws, federal, national or regional acts and regulations or with any guidelines issued pursuant to such regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its Client.