

Greenhouse Gas Verification Opinion

The inventory of Greenhouse Gas emissions in year 2024 of

Greenvines Biotech Co., Ltd.

10F, 1A, No.77, Sec.2, Dunhua S. Rd. Da'an Dist.,
Taipei City 106, Taiwan

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

ISO 14064-1:2018

Opinion Type: Modified

Direct emissions

17.3104 tonnes of CO₂e

Indirect emissions

1,475.2484 tonnes of CO₂e

Direct emissions and indirect emissions

1,492.559 tonnes of CO₂e

Authorized by



Stephen Pao

Business Assurance Director

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Version 1

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SGS Taiwan Ltd.
No. 136-1, Wu Kung Road, New Taipei Industrial Park,
Wu Ku District, New Taipei City 248016, Taiwan
t (02) 22993279 f (02)22999453 www.sgs.com



The emission of each category is described as below:

Unit: tonnes of CO₂e

Reporting Boundaries		GHG Emissions	
Inventory categories	Description		
Direct emissions	Direct emissions from stationary combustion	—	
	Direct emissions from mobile combustion	14.7276	
	Direct process emissions and removals from industrial processes	—	
	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	2.5828	
	Direct emissions and removals from land use, land use change and forestry	—	
Indirect emissions	Imported energy	Indirect emissions from purchased power	105.6467
	Transportation	Emissions from upstream raw material transportation.	12.6768
		Emissions from downstream product transportation.	13.0222
		Emissions from employee commuting. (including emissions related to transportation from employees' homes to their workplaces)	19.6386
	Products used by an organization	Greenhouse gas emissions from the mining, manufacturing and processing of raw materials purchased by the organization.	303.5147
		Greenhouse Emissions from the disposal of solid and liquid wastes depend on the characteristics of the waste and its treatment. (Typical treatment types are landfill, incineration, biological treatment or recycling processes)	1.9775
		Greenhouse gas emissions from the use of capital assets for leasing.	16.2755
	Associated with the use of products from the organization	Emissions or removals generated during the product use phase, including the total emissions from all relevant products sold during their expected life cycle.	994.4145
		Greenhouse gas emissions generated by product disposal.	8.0819
	Other sources	Unquantified	—
Direct emissions and indirect emissions		1,492.559	

The emission of each site is described as below:

Unit: tonnes of CO₂e

Site	Direct emissions	Indirect emissions		Total GHG emissions
	Category 1	Category 2	Category 3~6	
Greenvines Head Quarter	0.0000	19.5845	1,266.1329	1,285.717
Greenvines Farm	17.3104	86.0622	103.4688	206.841

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

ISO 14064-3:2019

as provided by Greenvines Biotech Co., Ltd. (hereinafter referred to as “Greenvines”), 10F, 1A, No.77, Sec.2, Dunhua S. Rd. Da’ an Dist., Taipei City 106, Taiwan, in the GHG Statement in the form of GHG report.

Roles and responsibilities

- The management of Greenvines 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 26 November 2024.
- Verification Criteria: ISO 14064-1:2018
- Verification Period: 17 April 2025 to 02 May 2025.

Scope

- GHG information for the following period was verified: 01 January 2024 to 31 December 2024.
- Location/boundary of the activities:
 - Office, 10F, 1A, No.77, Sec.2, Dunhua S. Rd. Da’an Dist., Taipei City 106, Taiwan
 - Office, 17F, 1C, No.77, Sec.2, Dunhua S. Rd. Da’an Dist., Taipei City 106, Taiwan
 - Farm, No. 562-1, Dongtai St., Bade Dist., Taoyuan City 334, Taiwan
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃, HCFCs, CFCs
- The IPCC 2021 AR6 GWP values are applied in this inventory.
- Emission factor:
 - Direct emissions: Greenhouse Gas Emission Factor, MOENV (2024.02.05).
 - Indirect emissions:
 - Electricity emission factor is 0.474 kgCO₂e/kwh (Announced by Energy Administration, Ministry of Economic Affairs in 2025).
 - The secondary database has Carbon Footprint Information Platform.
- 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: 20250722
- The version of GHG statement: 20250529
- 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 1,492.559 metric tonnes of CO₂ equivalent
- The emissions from the combustion of biomass is 0.0000 metric tonnes of CO₂ equivalent

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- 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.
 - Activity data errors have been corrected.
 - Emission coefficient reference error has been corrected.
 - The emission correction results did not produce any substantial errors.
- 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 conducted 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 Greenvines 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: *Kevin Hsieh*

Verifier: *William Li* *Carol Chen*

Eva Lo

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 Greenvines Biotech Co., Ltd., 10F, 1A, No.77, Sec.2, Dunhua S. Rd. Da'an Dist., Taipei City 106, Taiwan, 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.