

Greenhouse Gas Verification Opinion

The inventory of Greenhouse Gas emissions in year 2023 of

San Fu Chemical Co., Ltd.

No. 340, Xiaoxinying, Xiaoxin VII, Shanhua Dist.,
Tainan City, Taiwan



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

ISO 14064-1:2018

Direct emissions

2,638.3415 tonnes of CO₂e

Indirect emissions

21,084.1674 tonnes of CO₂e

Direct emissions and indirect emissions

23,722.508 tonnes of CO₂e

Authorized by

Stephen Pao

Business Assurance Director

Date: 25 April 2024

Version 1

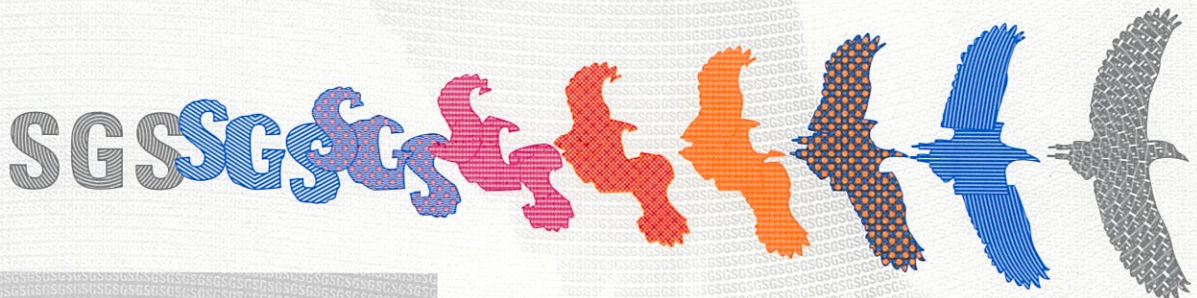
TGP56B-15-1 2401

SGS Taiwan Ltd.

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Opinion TW24/00178GG, continued

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		2,072.1397
	Direct emissions from mobile combustion		258.3626
	Direct process emissions and removals from industrial processes		267.1796
	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems		40.6596
	Direct emissions and removals from land use, land use change and forestry		0.0000
Indirect emissions	Imported energy	Indirect GHG emissions from purchased power and steam	17,085.2004
	Transportation	NA	NA
	Products used by an organization	Indirect GHG emissions from purchased energy, water and waste treatment	3,998.9670
	Associated with the use of products from the organization	NA	NA
	Other sources	NA	NA
Direct emissions and indirect emissions			23,722.508

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	
ShanHua Plant	2,374.4710	14,567.6520	3,512.3922	20,454.515
Liuying Plant	239.2571	1,534.3906	382.0192	2,155.667
Kaohsiung Plant	6.8972	926.0200	92.7282	1,025.645
Taipei Head Office and Zhubei Office	17.7162	57.1378	11.8274	86.681

SGS, No. 136-1, Wu Kung Road, New Taipei Industrial Park, Wu Ku District, New Taipei City 24803, Taiwan, has been contracted by San Fu Chemical Co., Ltd. (hereinafter referred to as “San Fu Chemical”), No. 340, Xiaoxinying, Xiaoxin Vil, Shanhua Dist., Tainan City, Taiwan for the verification of direct and indirect Greenhouse Gas emissions in accordance with

ISO 14064-3:2019

as provided by San Fu Chemical Co., Ltd. (hereinafter referred to as “San Fu Chemical”), No. 340, Xiaoxinying, Xiaoxin Vil, Shanhua Dist., Tainan City, Taiwan, in the GHG Statement in the form of GHG report.

Roles and responsibilities

- The management of San Fu Chemical 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 between San Fu Chemical and SGS on 10 July 2023.
- Verification Criteria: ISO 14064-1:2018, ISO 14064-3:2019
- Verification Period: 29 January 2024 to 27 February 2024.

Scope

- GHG information for the following period was verified: 01 January 2023 to 31 December 2023
- Location/boundary of the activities:
 - No. 340, Xiaoxinying, Xiaoxin Vil, Shanhua Dist., Tainan City, Taiwan
 - No. 1, Sec. 1, Huanyuan E. Rd., Liuying Dist., Tainan City, Taiwan
 - No. 45, Chung-Heng St., Hsiao Kang Dist., Kaohsiung City, Taiwan
 - 6F. & 7F., No. 21, Sec. 2, Zhongshan N. Rd., Zhongshan Dist., Taipei City, Taiwan
 - 6F.-2, No. 251, Fuxing 1st St., Zhubei City, Hsinchu County, Taiwan
- 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 Inventory Operation Guideline (2022.05).
 - Indirect emissions:
 - Electricity emission factor is 0.495 kgCO₂e/kwh (Announced by Energy Administration, Ministry of Economic Affairs in 2023).
 - 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: ShanHua Plant: 2024.2.27 , V3 , Liuying Plant: 2024.2.23 , V4 , Kaohsiung Plant: 2024.2.22 , V3 , Taipei Head Office and Zhubei Office: 2024.2.23 , V2
- The version of GHG statement: ShanHua Plant: 2024.2.27 , V3 , Liuying Plant: 2024.2.26 , V4 , Kaohsiung Plant: 2024.2.22 , V3 , Taipei Head Office and Zhubei Office: 2024.2.23 , V2
- 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 23,722.508 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

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The opinion of SGS is unmodified 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 auditor intends to rely on relevant controls, the effectiveness of those controls has been assessed.
- The verifier applies the ISO 14064-1:2018 standard to fairly present greenhouse gas data and information, and SGS obtains appropriate supporting evidence for material emissions and removals.

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 San Fu Chemical as a whole.

Verifier Group

Above opinions coincide with auditing process with fairness and impartiality and aim at the emission of year 2023 of clients.

Lead Verifier:

John Chiang

Verifier:

Steven Kuo

Tim Chuang

Tender Hung

Opinion TW24/00178GG, continued

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 Assertion may be consulted at San Fu Chemical Co., Ltd., No. 340, Xiaoxinying, Xiaoxin VII, Shanhua Dist., Tainan City, 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.

This Opinion is not valid without the full verification scope, objectives, criteria and findings available on the Opinion.