

温室气体排放核查声明

证书号: 04125GHGA20077

上海长华新技电材有限公司

2024 年度温室气体盘查报告

(发布日期: 2025年3月10日; 覆盖的时段: 2024年01月01日-2024年12月31日)

已经依据 ISO 14064-3:2019 的要求通过核查

满足核查准则要求、达到合理保证等级且满足实质性要求

核查准则: ISO 14064-1:2018

核查方案: ISO/IEC 17029:2019; ISO 14065:2020; ISO 14064-3:2019;

ISO 14066:2011

组织 GHG 核查范围: 被核查的温室气体宣称:

2024年度上海长华新技电材有限公司温室气体盘查报告

组织边界:

1027号 2101 室地址的上海长华新技电材有限公司地址所有产

生 GHG 排放和清除量的设施。

经营及活动范围:

半导体封装材料及设备、电器、电信器材、电气材料等有

关产品为主的批发和佣金代理(拍卖除外)及售后服务

覆盖的时间段:

自 2024年01月01日至2024年12月31日

温室气体排放类别:

■类别1 ■类别2 ■类别3 ■类别4 □类别5 □类别6

总排放量: 36 tCO₂e 核查机构类型: 第三方

核查声明发布日期: 2025年3月19日

委托方: 上海长华新技电材有限公司

核查目的、保证等级、实质性、GHG 声明的目标用户等详细信息见本核查声明附录,附录为本核查

声明的组成部分



证有图 SAPPERATION CONTRICTION CONTRICTION

总经理

华测认证有限公司



温室气体排放核查声明附录

证书号: 04125GHGA20077

核查过程简述: 华测认证有限公司依据 ISO 14064-3:2019 标准对上海长

华新技电材有限公司在 2024年 01月 01日至 2024年 12

月31日期间的温室气体排放进行核查。

涉及领域及类别: 其他(21)

核查目的: a)评价温室气体盘查报告满足 ISO 14064-1:2018 要求

b) 评价温室气体盘查报告的一致性、完整性

c) 确认温室气体盘查过程和排放量计算的正确合理性

d) 评价组织的温室气体相关控制情况

保证等级: 合理保证等级

实质性限值: 5%

温室气体声明目标用户: 受核查方经营活动涉及的利益相关方

为温室气体声明提供支持 属于历史事实

的数据和信息的性质:

包含的温室气体种类: ■CO₂ ■CH₄ ■N₂O □HFCs □PFCs □SF₆ □NF₃

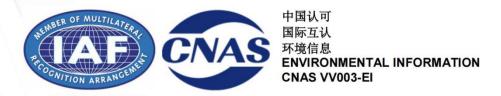
类別 1 排放量:12.30 tCO2e类別 2 排放量:4.32 tCO2e类別 3 排放量:19.24 tCO2e类別 4 排放量:0.42 tCO2e

总排放量: 36 tCO₂e

CTI



总经理



GREENHOUSE GAS VERIFICATION STATEMENT

Certificate No.: 04125GHGA20077

The 2024 Greenhouse Gas Inventory Report of

Shanghai Chang Wah Electromaterials Inc.

(Issue date: March 10, 2025; Time period: January 1, 2024- December 31, 2024) has been verified in accordance with ISO 14064-3:2019 with the materiality and the level of assurance satisfied.

Verification Criteria: ISO 14064-1:2018

Verification ISO/IEC 17029:2019; ISO 14065:2020; ISO 14064-3:2019;

Programmes: ISO 14066:2011

Boundary(ies): Verified greenhouse gas statement:

The 2024 Greenhouse Gas Inventory Report of Shanghai

Chang Wah Electromaterials Inc.

Organizational boundaries:

All facilities under the operational control and related to greenhouse gas emissions and removals of Shanghai Chang Wah Electromaterials Inc. which located at 21F-1,1027 Chang

ning Road, Changning District, Shanghai, China.

Scope of business and activities:

Wholesale and commission agency (excluding auctions) and after-sales service primarily for products related to semiconductor packaging materials and equipment, electrical appliances, telecommunications equipment, electrical materials, and other related products

Time period:

January 01, 2024- December 31, 2024

GHG Category(ies):

■ Category 1 ■ Category 2 ■ Category 3

■ Category 4 □ Category 5 □ Category 6.

Total emissions: 36 tCO₂e **Type of entity:** Third-party Issue date: March 19, 2025

Commissioned by: Shanghai Chang Wah Electromaterials Inc.

Details of the objectives, assurance levels, materiality, intend users of the GHG statement, etc. are given in the appendix to this verification statement of which forms an integral part.



General manager

CTI Certification Co., LTD.



APPENDIX TO THE GREENHOUSE GAS VERIFICATION STATEMENT

Certificate No.: 04125GHGA20077

Description of the CTI verified the inventory of Greenhouse gas emissions

verification: of Shanghai Chang Wah Electromaterials Inc. from

January 1, 2024 to December 31, 2024 according to ISO

14064-3:2019.

Scope: Others (21)

Objectives: a) Evaluate whether the GHG inventory report meets the

requirements of ISO 14064-1:2018

b) Evaluate the consistency and completeness of the

GHG inventory report

c) Verify the correctness and reasonableness of the

GHG accounting and reporting

d) Evaluate the GHG-related management controls at

the organization level

Assurance level: Reasonable

Materiality threshold: 5%

Intended users: Stakeholders involved in the business activities

Nature of data and Historical facts

information supported

the GHG statement:

GHGs included: $\blacksquare CO_2 \blacksquare CH_4 \blacksquare N_2O \square HFC_S \square PFC_S \square SF_6 \square NF_3$

Category 1 Emissions: 12.30 tCO₂e Category 2 Emissions: 4.32 tCO₂e Category 3 Emissions: 19.24 tCO₂e Category 4 Emissions: 0.42 tCO₂e

Total Emissions: 36 tCO₂e



General manager





温室气体排放核查声明

证书号: 04125GHGA20082

长科实业(上海)有限公司

2024 年度温室气体盘查报告

(发布日期: 2025年3月10日; 覆盖的时段: 2024年01月01日-2024年12月31日)

已经依据 ISO 14064-3:2019 的要求通过核查

满足核查准则要求、达到合理保证等级且满足实质性要求

核查准则: ISO 14064-1:2018

核查方案: ISO/IEC 17029:2019; ISO 14065:2020; ISO 14064-3:2019;

ISO 14066:2011

组织 GHG 核查范围: 被核查的温室气体宣称:

2024年度长科实业(上海)有限公司温室气体盘查报告

组织边界:

组织按照运营控制权原则确定的位于上海市长宁区长宁路

1027号 2101 室地址的长科实业(上海)有限公司所有产生 GHG

排放和清除量的设施。

经营及活动范围:

照明材料及设备、通信设备、半导体材料及设备、电子产品、超过2000年,10

品、机械设备、五金交电、计算机软硬件的批发、进出口和佣

金代理(拍卖除外)

覆盖的时间段:

自 2024年01月01日至2024年12月31日

温室气体排放类别:

■类别1 ■类别2 ■类别3 ■类别4 □类别5 □类别6

总排放量: 2 tCO₂e **核查机构类型:** 第三方

核查声明发布日期: 2025年3月19日

委托方: 长科实业(上海)有限公司

核查目的、保证等级、实质性、GHG声明的目标用户等详细信息见本核查声明附录、附录为本核查

声明的组成部分



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总经理

华测认证有限公司



温室气体排放核查声明附录

证书号: 04125GHGA20082

核查过程简述: 华测认证有限公司依据 ISO 14064-3:2019 标准对长科实

业(上海)有限公司在2024年01月01日至2024年12

月31日期间的温室气体排放进行核查。

涉及领域及类别: 其他(21)

核查目的: a)评价温室气体盘查报告满足 ISO 14064-1:2018 要求

b) 评价温室气体盘查报告的一致性、完整性

c) 确认温室气体盘查过程和排放量计算的正确合理性

d) 评价组织的温室气体相关控制情况

保证等级: 合理保证等级

实质性限值: 5%

温室气体声明目标用户: 受核查方经营活动涉及的利益相关方

为温室气体声明提供支持 属于历史事实

的数据和信息的性质:

包含的温室气体种类: ■CO₂ □CH₄ □N₂O □HFCs □PFCs □SF₆ □NF₃

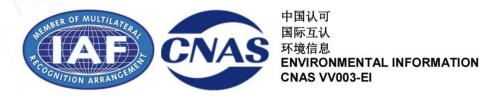
类別 1 排放量:0.00 tCO₂e类別 2 排放量:0.52 tCO₂e类別 3 排放量:0.87 tCO₂e类別 4 排放量:0.27 tCO₂e

总排放量: 2 tCO₂e





总经理



GREENHOUSE GAS VERIFICATION STATEMENT

Certificate No.: 04125GHGA20082

The 2024 Greenhouse Gas Inventory Report of

CWTC (Shanghai) Inc.

(Issue date: March 10, 2025; Time period: January 1, 2024- December 31, 2024) has been verified in accordance with ISO 14064-3:2019 with the materiality and the level of assurance satisfied.

Verification Criteria: ISO 14064-1:2018

Verification ISO/IEC 17029:2019; ISO 14065:2020; ISO 14064-3:2019;

Programmes: ISO 14066:2011

Boundary(ies): Verified greenhouse gas statement:

The 2024 Greenhouse Gas Inventory Report of CWTC

(Shanghai) Inc.

Organizational boundaries:

All facilities under the operational control and related to greenhouse gas emissions and removals of CWTC (Shanghai) Inc. which located at 21F-1,1027 Changning

Road, Changning District, Shanghai, China.

Scope of business and activities:

Wholesale, import-export, and commission agency (excluding auctions) of lighting materials and equipment, communication equipment, semiconductor materials and equipment, electronic products, machinery equipment, electrical hardware, computer software and hardware Time period:

January 01, 2024- December 31, 2024

GHG Category(ies):

■ Category 1 ■ Category 2 ■ Category 3

■ Category 4

Category 5

Category 6.

Total emissions: 2 tCO₂e **Type of entity**: Third-party

Issue date: March 19, 2025

Commissioned by: CWTC (Shanghai) Inc.

Details of the objectives, assurance levels, materiality, intend users of the GHG statement, etc. are given in the appendix to this verification statement of which

forms an integral part.



General manager

CTI Certification Co., LTD.



APPENDIX TO THE GREENHOUSE GAS VERIFICATION STATEMENT

Certificate No.: 04125GHGA20082

Description of the CTI verified the inventory of Greenhouse gas emissions

verification: of CWTC (Shanghai) Inc. from January 1, 2024 to

December 31, 2024 according to ISO 14064-3:2019.

Scope: Others (21)

Objectives: a) Evaluate whether the GHG inventory report meets

the requirements of ISO 14064-1:2018

b) Evaluate the consistency and completeness of the

GHG inventory report

c) Verify the correctness and reasonableness of the

GHG accounting and reporting

d) Evaluate the GHG-related management controls at

the organization level

Assurance level: Reasonable

Materiality threshold: 5%

Intended users: Stakeholders involved in the business activities

Nature of data and Historical facts

information supported

the GHG statement:

GHGs included: $\blacksquare CO_2 \square CH_4 \square N_2O \square HFC_S \square PFC_S \square SF_6 \square NF_3$

Category 1 Emissions: 0.00 tCO₂e Category 2 Emissions: 0.52 tCO₂e Category 3 Emissions: 0.87 tCO₂e Category 4 Emissions: 0.27 tCO₂e

Total Emissions: 2 tCO2e



General manager





GHG VERIFICATION STATEMENT

The Verification Body of TÜV SÜD PSB Pte Ltd declares that the greenhouse gas (GHG) statement reported by

SH Asia Pacific Pte Ltd

for 10 Eunos Road 8, #05-04/05, Singapore Post Centre, Singapore 408600

Direct GHG Emissions: 2.8336 tCO2e
Indirect GHG Emissions: 48.2945 tCO2e
Total GHG Emissions: 51.1281 tCO2e

was verified in accordance with ISO 14064-3:2019 Specification with guidance for the verification and validation of GHG statements as meeting the requirements of

ISO 14064-1:2018

Specification with guidance at the organization level for quantification and reporting of GHG emissions and removals

Organizational Boundaries: \square Financial Control \boxtimes Operational Control \square Equity Share
GHG Inventory Categories: ⊠ 1 ⊠ 2 ⊠ 3 ⊠ 4 □ 5 □ 6
GHG Emissions: \boxtimes CO ₂ \boxtimes CH ₄ \boxtimes N ₂ O \square HFCs \square PFCs \square SF ₆ \square NF ₃
Reporting Period: 2024-01-01 to 2024-12-31
Level of Assurance: ☐ Reasonable ⊠ Limited
Statement No : GHG-2025-0008

Issue Date: 2025-03-19

Manineth Pulido
Head of Certification Body
Management Systems





Schedule Accompanying GHG Verification Statement

Objectives

- a) Determine, with the applicable verification requirements of ISO 14064-3:2019 Specification with guidance for the verification and validation of GHG statements ("ISO 14064-3"), the extent of conformity of the organization's GHG emissions report to the requirements of ISO 14064-1:2018 Specification with guidance at the organization level for quantification and reporting of GHG emissions and removals ("ISO 14064-1");
- b) Assess completeness of the organization's GHG inventory of GHG emissions and removals;
- Evaluate the organization's GHG reporting system and its controls/management in preparing the GHG emissions report; and
- d) Confirm whether the GHG emissions report is without material discrepancy (and in compliance with regulations), and whether the verification activities provide the level of assurance agreed upon at the beginning of the verification process.

Scope of Verification

TÜV SÜD PSB was contracted by SH Asia Pacific Pte Ltd to perform a third-party verification of its GHG statement of GHG emission-generating activities from its operations with respect to the following:

Site	Address
1.	10 Eunos Road 8, #05-04/05, Singapore Post Centre,
	Singapore 408600

Verification Standard and Reporting Criteria

The verification was performed in accordance with the principles of ISO 14064-3 against the reporting criteria of ISO 14064-1 with a base year of 2023-01-01 to 2023-12-31 for Category 1 and 2.

Materiality Threshold

The materiality threshold of the verification was confirmed by TÜV SÜD PSB to be 10% as required by the intended user of the GHG statement.

Roles and Responsibilities

The HR Manager of SH Asia Pacific Pte Ltd is responsible for the organization's GHG reporting 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.

Note: This Statement is issued, on behalf of Client, by TÜV SÜD PSB under its Terms & Conditions. The findings recorded hereon are based upon a verification performed by TÜV SÜD PSB. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted at the organization. To check the validity of this statement please call (+65 6778 7777). This Statement 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 TÜV SÜD PSB and TÜV SÜD PSB shall have no responsibility vis-à-vis parties other than its client.

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TÜV SÜD PSB conducted a third-party verification of the provided GHG statement for the reporting period of 2024-01-01 to 2024-12-31. The verification was based on the verification objectives, scope and criteria as agreed between SH Asia Pacific Pte Ltd and TÜV SÜD PSB.

Verification Process and Method

TÜV SÜD PSB adopted a risk-based approach, drawing on an understanding of the risks associated with reporting GHG emissions information and the controls in place to mitigate them. The examination included a comprehensive assessment of evidence relevant to the quantities and disclosures in relation to GHG emissions reported by the organization.

The review of the GHG statement, supported by the site visit and interviews, have provided TÜV SÜD PSB with sufficient evidence to determine that SH Asia Pacific Pte Ltd has fulfilled the stated criteria at the agreed level of assurance. Verification activities applied in a limited level of assurance verification are less extensive in nature, timing, and extent than in a reasonable level of assurance verification.

Summary of GHG Statement

The following GHG emissions have been verified by TÜV SÜD PSB:

GHG inventory category	Emissions	
Category 1: Direct GHG emissions and removals	2.8336	tCO₂e
Category 2: Indirect GHG emissions from imported energy	4.0269	tCO₂e
Category 3: Indirect GHG emissions from transportation	42.5321	tCO₂e
Category 4: Indirect GHG emissions from products used by organization	1.7354	tCO ₂ e
Category 5: Indirect GHG emissions associated with the use of products from the organization	NA	tCO₂e
Category 6: Indirect GHG emissions from other sources	NA	tCO₂e
Total	51.1281	tCO₂e

Note: This Statement is issued, on behalf of Client, by TÜV SÜD PSB under its Terms & Conditions. The findings recorded hereon are based upon a verification performed by TÜV SÜD PSB. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted at the organization. To check the validity of this statement please call (+65 6778 7777). This Statement 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 TÜV SÜD PSB and TÜV SÜD PSB shall have no responsibility vis-à-vis parties other than its client.

TÜV SÜD PSB Pte Ltd, 15 International Business Park Singapore 609937, Reg. No. 199002667

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Verification Opinion

TÜV SÜD PSB conducted the verification with regards to the GHG statement of SH Asia Pacific Pte Ltd, which included an assessment of the GHG information system, monitoring, and reporting plan. The assessment included the collection of evidence supporting the reported data, and the evaluation of the consistency and appropriateness of that evidence.

Based on the data and information provided by SH Asia Pacific Pte Ltd and the processes and procedures conducted, in TÜV SÜD PSB's opinion, there is no evidence that the GHG statement for the reporting period of 2024-01-01 to 2024-12-31:

- is not materially correct and is not a fair representation of the GHG data and information; and
- has not been prepared in accordance with the related international standard on GHG quantification, monitoring, and reporting.

Note: This Statement is issued, on behalf of Client, by TÜV SÜD PSB under its Terms & Conditions. The findings recorded hereon are based upon a verification performed by TÜV SÜD PSB. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted at the organization. To check the validity of this statement please call (+65 6778 7777). This Statement 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 TÜV SÜD PSB and TÜV SÜD PSB shall have no responsibility vis-à-vis parties other than its client.

TÜV SÜD PSB Pte Ltd, 15 International Business Park Singapore 609937, Reg. No. 199002667

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