

# 温室气体排放核查声明

证书号: 04124GHGA20016

# 上海长华新技电材有限公司

2023年度温室气体盘查报告

(发布日期: 2024年01月17日; 覆盖的时段: 2023年01月01日-2023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:

2023年度上海市上海长华新技电材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 室上海长华新技电材有限公司所有产生 GHG 排 放和清除量的设施。

经营及活动范围:

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:

■类别1 ■类别2 ■类别3 ■类别4 □类别5 □类别6

自 2023 年 1 月 1 日 至 2023 年 12 月 31 日 温室气体排放类别:

总排放量: 核查机构类型: 核查声明发布日期: 委托方:

34 tCO<sub>2</sub>e

第三方

2024年2月21日

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



总经理

## 华测认证有限公司

中国广东省深圳市宝安区新安街道留仙三路4号华测检测大楼8楼A区 CNAS认可标识仅表明CNAS对机构能力的承认,不应被理解为CNAS批准了该证书或对其负责。 本证书可在我公司网站(www.cti-cert.com)或国家认证认可监督管理委员会官方网站(www.cnca.gov.cn)上查询。



# 温室气体排放核查声明附录

### 证书号: 04124GHGA20016

华测认证有限公司依据 ISO 14064-3:2019 对上海长华新 核查过程简述: 技电材有限公司在 2023 年 01 月 01 日-2023 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
- 合理保证等级 保证等级:
- 实质性限值: 5%
  - 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

温室气体声明目标用户:

- 的数据和信息的性质: 包含的温室气体种类: 类别1排放量: 类别2排放量: 类别3排放量:

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- $\blacksquare CO_2 \blacksquare CH_4 \blacksquare N_2O \square HFCs \square PFCs \square SF_6 \square NF_3$
- 12.75 tCO<sub>2</sub>e
- 3.24 tCO<sub>2</sub>e
- 17.93 tCO<sub>2</sub>e
- 类别4排放量: 0.00 tCO<sub>2</sub>e
  - 总排放: 34 tCO<sub>2</sub>e



## 华测认证有限公司

中国广东省深圳市宝安区新安街道留仙三路4号华测检测大楼8楼A区 CNAS 认可标识仅表明 CNAS 对机构能力的承认,不应被理解为 CNAS 批准了该证书或对其负责。 本证书可在我公司网站(www.cti-cert.com)或国家认证认可监督管理委员会官方网站(www.cnca.gov.cn)上查询。



# **GREENHOUSE GAS VERIFICATION STATEMENT**

Certificate No: 04124GHGA20016

The inventory of Greenhouse gas emissions in year 2023 of

## Shanghai Chang Wah Electromaterials Inc.

(Issue date: January 17<sup>th</sup>, 2024; Time period: January 1<sup>st</sup>, 2023- December 31<sup>st</sup>, 2023) 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: I**SO 14066:2011 Boundary(ies): Verified greenhouse gas statement:

> The 2023 Greenhouse Gas Inventory Report of Shanghai Chang Wah Electromaterials Inc.

Organizational boundaries:

All facilities under the operational control approach related to greenhouse gas emissions and removals of 21F-1, Zhao Feng Plaza, 1027 Changning Road, Shanghai, 200050, China. Scope of business and activities:

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

January 1<sup>st</sup>, 2023- December 31<sup>st</sup>, 2023 GHG Category(ies):

Category 1 Category 2 Category 3

■ Category 4 □ Category 5 □ Category 6.

Total emissions: 34 tCO<sub>2</sub>e Type of entity: Third-party

**Issue date :** February 21<sup>st</sup>, 2024

**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.

Zone A 8F CTI Building, No.4 Liu Xian San Road, Xin'an Street, Bao'an District, Shenzhen, Guangdong Province, China. The CNAS accreditation mark indicates only that CNAS recognizes the competence of the WB and should not be construed to mean that CNAS approves or is responsible for the certificate. This certificate is available on our website (www.cti-cert.com) or the official website of National Certification and Accreditation Administration (www.cnca.gov.cn).



## APPENDIX TO THE GREENHOUSE GAS VERIFICATION STATEMENT

Certificate No: 04124GHGA20016

| <b>Description of the</b> | CTI verified the inventory of Greenhouse gas emissions  |
|---------------------------|---|
| verification :            | in year 2023 of Shanghai Chang Wah Electromaterials   |
|                           | Inc. 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  |
| nformation supported the  |   |
| GHG statement :           |   |
| GHGs included :           | $\blacksquare CO_2 \blacksquare CH_4 \blacksquare N_2O \Box HFC_S \Box PFC_S \Box SF_6 \Box NF_3$ |
| Category 1 Emissions :    | 12.75 tCO <sub>2</sub> e  |
| Category 2 Emissions :    | 3.24 tCO <sub>2</sub> e   |
| Category 3 Emissions :    | 17.93 tCO <sub>2</sub> e  |
| Category 4 Emissions :    | 0.00 tCO <sub>2</sub> e   |
| Total Emissions :         | <b>34</b> tCO <sub>2</sub> e  |
|                           |   |



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General manager

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# 温室气体排放核查声明

证书号: 04124GHGA20017

# 长科实业(上海)有限公司

2023年度温室气体盘查报告

(发布日期: 2024年01月18日; 覆盖的时段: 2023年01月01日-2023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:

2023年度上海市长科实业(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、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 2023 年 1 月 1 日 至 2023 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 2 tCO<sub>2</sub>e

总排放量: 核查机构类型: 核查声明发布日期: 季托克·

第三方 2024年2月22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



总经理

## 华测认证有限公司

中国广东省深圳市宝安区新安街道留仙三路 4 号华测检测大楼 8 楼 A 区 CNAS 认可标识仅表明 CNAS 对机构能力的承认,不应被理解为 CNAS 批准了该证书或对其负责。 本证书可在我公司网站(www.cti-cert.com)或国家认证认可监督管理委员会官方网站(www.cnca.gov.cn)上查询。



温室气体排放核查声明附录

### 证书号: 04124GHGA20017

核查过程简述: 华测认证有限公司依据 ISO 14064-3:2019 对长科实业(上 海)有限公司在 2023 年 01 月 01 日-2023 年 12 月 31 日期 间的温室气体排放进行核查。

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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%

受核查方经营活动涉及的利益相关方

温室气体声明目标用户: 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:

 $\square CO_2 \square CH_4 \square N_2O \square HFCs \square PFCs \square SF_6 \square NF_3$ 

- 类别1排放量: 0.00 tCO<sub>2</sub>e
- 类别2排放量: 0.40 tCO<sub>2</sub>e
- 类别3排放量: 1.11 tCO<sub>2</sub>e
- 类别4排放量: 0.00 tCO<sub>2</sub>e
  - 总排放:  $2 tCO_2 e$





### 华测认证有限公司

中国广东省深圳市宝安区新安街道留仙三路4号华测检测大楼8楼A区 CNAS 认可标识仅表明 CNAS 对机构能力的承认,不应被理解为 CNAS 批准了该证书或对其负责。 本证书可在我公司网站(www.cti-cert.com)或国家认证认可监督管理委员会官方网站(www.cnca.gov.cn)上查询。



# **GREENHOUSE GAS VERIFICATION STATEMENT**

Certificate No: 04124GHGA20017 

The inventory of Greenhouse gas emissions in year 2023 of

## CWTC (Shanghai) Inc.

(Issue date: January 18<sup>th</sup>, 2024; Time period: January 1<sup>st</sup>, 2023- December 31<sup>st</sup>, 2023) 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 **Programmes: I**SO 14066:2011

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

**Boundary(ies):** Verified greenhouse gas statement:

The 2023 Greenhouse Gas Inventory Report of CWTC (Shanghai) Inc.

Organizational boundaries:

All facilities under the operational control approach related to greenhouse gas emissions and removals of 21F-1, Zhao Feng Plaza, 1027 Changning Road, Shanghai, 200050, 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 1<sup>st</sup>, 2023- December 31<sup>st</sup>, 2023 GHG Category(ies):

Category 1 Category 2 Category 3

■ Category 4 □ Category 5 □ Category 6.

Total emissions: 2 tCO<sub>2</sub>e **Type of entity:** Third-party

**Issue date :** February 22<sup>nd</sup>, 2024

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.





## **CTI** Certification Co., LTD.

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# APPENDIX TO THE GREENHOUSE GAS VERIFICATION STATEMENT

Certificate No: 04124GHGA20017

| Description of the verification : | CTI verified the inventory of Greenhouse gas<br>emissions in year 2023 of CWTC (Shanghai) Inc. |
|-----------------------------------|--|
|                                   | according to ISO 14064-3:2019.   |
| Scope:                            |  |
| 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 :                   | $\blacksquare CO_2 \ \Box CH_4 \ \Box N_2O \ \Box HFC_s \ \Box PFC_s \ \Box SF_6 \ \Box NF_3$  |
| Category 1 Emissions :            | 0.00 tCO <sub>2</sub> e  |
| Category 2 Emissions :            | 0.40 tCO <sub>2</sub> e  |
| Category 3 Emissions :            | 1.11 tCO <sub>2</sub> e  |
| Category 4 Emissions :            | 0.00 tCO <sub>2</sub> e  |
| Total Emissions :                 | <b>2</b> tCO <sub>2</sub> e  |
|                                   |  |



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General manager

## **CTI** Certification Co., LTD.

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# **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:2.6466 tCO2eIndirect GHG Emissions:4.7694 tCO2eTotal GHG Emissions:7.4160 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:** 

Financial Control 
Operational Control 
Equity Share

**GHG Inventory Categories:**  $\square$  1  $\square$  2  $\square$  3  $\square$  4  $\square$  5  $\square$  6

 $\textbf{GHG Emissions:} \boxtimes \textbf{CO}_2 \boxtimes \textbf{CH}_4 \boxtimes \textbf{N}_2\textbf{O} \ \Box \ \textbf{HFCs} \ \Box \ \textbf{PFCs} \ \Box \ \textbf{SF}_6 \ \Box \ \textbf{NF}_3$ 

Reporting Period: 2023-01-01 to 2023-12-31

Level of Assurance:  $\Box$  Reasonable  $\boxtimes$  Limited

Statement No.: GHG-2024-0004

Issue Date: 2024-02-23

FOO Soo Guan SVP/Head of Division Business Assurance (ASEAN)



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### 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;
- c) 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, Singapore Post Centre, #05-04/05 |
|      | 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.

#### Materiality Threshold

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

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

Doc No.: 69843

Note: This Statement is issued, on behalf of Client, by TÜV SÜD PSB under its Terms & Conditions. The findings recorded hereon are based upon an 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 conducted a third-party verification of the provided GHG statement for the reporting period of 2023-01-01 to 2023-12-31. 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**

| GHG inventory category   | Emissions |                    |
|--|-----------|--------------------|
| Category 1: Direct GHG emissions and removals  | 2.6466    | tCO <sub>2</sub> e |
| Category 2: Indirect GHG emissions from imported energy                                      | 4.7694    | tCO <sub>2</sub> e |
| Category 3: Indirect GHG emissions from transportation                                       | NA        | tCO <sub>2</sub> e |
| Category 4: Indirect GHG emissions from products used by organization                        | NA        | tCO <sub>2</sub> e |
| Category 5: Indirect GHG emissions associated with the use of products from the organization | NA        | tCO <sub>2</sub> e |
| Category 6: Indirect GHG emissions from other sources  | NA        | tCO <sub>2</sub> e |
| Total  | 7.4160    | tCO <sub>2</sub> e |

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

Note: This Statement is issued, on behalf of Client, by TÜV SÜD PSB under its Terms & Conditions. The findings recorded hereon are based upon an 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.



### **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 2023-01-01 to 2023-12-31:

- 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.

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

Note: This Statement is issued, on behalf of Client, by TÜV SÜD PSB under its Terms & Conditions. The findings recorded hereon are based upon an 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.