

声明编码 CN25/00001676



温室气体核查声明

以下组织的 2024 年 01 月 01 日至 2024 年 12 月 31 日温室气体盘查清册

上纬国际投资控股股份有限公司

注册地址：南投县南投市东闵路 588 号

组织边界：涉及多地址，具体的组织边界信息在后续页列出

已由 SGS 依据 ISO 14064-3:2019 进行了核查并满足以下要求

ISO 14064-1:2018

直接温室气体排放

1,800.89 吨二氧化碳当量

间接温室气体排放

9,111.53 吨二氧化碳当量

经量化的总排放量

10,912.42 吨二氧化碳当量

间接温室气体排放的具体类别详见本声明书的附件，声明书附件是本声明书的组成部分

签署

David Xin

Sr. Director - Business Assurance

签署日期：2025 年 02 月 28 日

通标标准技术服务有限公司
北京市阜成路 73 号世纪裕惠大厦 16 层 100142
t +86 (0)10 58251188 www.sgsgroup.com.cn



本文件是真实的电子版证书，仅供客户用于其商业用途。客户可自行打印，视同副本。本文件根据 [Terms and Conditions | SGS](#) 中认证服务通用条款的要求颁发。提请注意其中已包含的责任范围、赔偿和司法管辖事项。本文件受 SGS 版权保护，任何未经授权的对此文件的内容或外观的变更、伪造或篡改皆属非法。

在此范围内出具了多张核查声明，本声明为主声明

SGS 与上纬国际投资控股股份有限公司（下文称作“委托方”）签订合同，依据

ISO 14064-3:2019

核查由上纬国际投资控股股份有限公司（下文称作“责任方”）以温室气体报告形式提供的温室气体声明，涵盖从 2024 年 01 月 01 日至 2024 年 12 月 31 日（下文称作“报告期”）的直接和间接温室气体排放。

角色和责任

责任方的管理者负责组织的温室气体信息系统，依据该系统建立和维护记录及报告程序，包括计算和决定温室气体排放信息及报告的排放量。

SGS 有责任对由责任方提供的报告期的温室气体声明作出独立的温室气体核查意见。

SGS 于 2025 年 02 月 17-19 日（上纬新材料科技股份有限公司），2025 年 02 月 18 日（上纬国际投资控股股份有限公司），2025 年 02 月 19-21 日（磁震科技开发股份有限公司），2025 年 02 月 20-22 日（上纬再生利用（江苏）有限公司），2025 年 02 月 24-26 日（上纬（天津）风电材料有限公司），2025 年 02 月 28 日（上纬创新育成股份有限公司）依据 ISO 14064-3:2019 要求对责任方提供的温室气体声明符合

ISO 14064-1:2018 的要求进行了第三方核查。核查是基于委托方与 SGS 于 2025 年 02 月 13 日商定的核查范围、目标和准则。

保证等级

商定的保证等级为合理保证。

适用范围

委托方委托 SGS 基于 ISO 14064-3:2019 进行一次独立核查，以确保责任方所报告的温室气体排放量，在下述的核查范围内符合 ISO 14064-1:2018 的要求。责任方的温室气体声明是以历史数据与信息来编制。

范围覆盖组织边界内人类活动引起的温室气体排放的核查：

- 组织边界的建立是遵循营运控制权。
- 地址/活动边界：附录中列出了边界的详细信息。
- 组织的基础设施、活动、技术和流程：合成树脂、碳纤维增强复合材料及其制品的研发和生产，以及回收废弃纤维复合材料
- 温室气体源、汇和/或库包括：责任方的温室气体清册和温室气体报告中所提出的温室气体源。
- 温室气体种类包括：二氧化碳、甲烷、氧化亚氮、氢氟碳化物、全氟碳化物、六氟化硫、三氟化氮。
- 以下期间的温室气体信息已被核查：2024 年 01 月 01 日至 2024 年 12 月 31 日。
- 采用的全球变暖潜能：IPCC 第 6 次评估报告。
- 核查声明的预期用户：客户、公众、政府等

目标

本次核查之目的是通过客观证据审查：

- 温室气体排放是否如组织的温室气体声明所述
- 所报的数据是准确的、完整的、一致的、透明的和没有实质错误或遗漏。

准则

核查依据的准则是 ISO 14064-3:2019。

重要性

基于温室气体声明的预期用户的需要，本次核查的重要性阈值定为 5%。

核查方法

SGS 的方法是基于风险，理解所报告的温室气体排放信息相关的风险并加以控制，从而减轻风险。我们的检查包括评估与排放量有关的证据和组织温室气体排放量的披露。

SGS 计划并执行工作来获取必要的信息、解释和证据，以提供保证等级，确保能公正地陈述在报告期内的责任方的温室气体排放。

SGS 核查责任方以温室气体报告的方式提供的温室气体声明，包括评估温室气体信息系统和报告计划或协议。这次评估包括收集用以支持所报数据的证据，以及检查所参考的协议的条款是否一致地和适当地应用。

核查意见结论

责任方提供了基于 ISO 14064-1:2018 要求的温室气体声明，声明在组织边界范围和报告期内共排放温室气体 **10,912.42 吨二氧化碳当量**。

SGS 基于商定的合理保证对责任方的温室气体声明独立核查后，出具的核查意见是：

无保留意见

责任方递交的的温室气体声明是依据 ISO 14064-1:2018 对温室气体量化和准备报告，在重要性方面表述公正，声明中的温室气体数据和信息的确实体现且有充分和适宜的证据予以支持。

保留意见

责任方递交的温室气体声明无重大错误，但存在缺陷而影响出具无保留的核查意见。

否定意见

责任方递交的温室气体声明：

- 存在重大错误

- 收集的证据无法支持出具保留意见或无保留意见

无法表示意见

无法获取充分和适宜的证据来对责任方递交的温室气体声明是否依据 ISO 14064-1:2018 要求得到的公正表达形成意见。

本核查声明应与责任方温室气体报告的方式提供的温室气体声明作为一个整体进行解释说明。

注：通标标准技术服务有限公司 ("SGS") 按 SGS 温室气体审定与核查服务通用条款发放此温室气体核查声明。此声明的内容基于核查结果编制。可向责任方查询获取此温室气体核查声明及责任方温室气体声明(温室气体报告的副本)。此核查声明不可解除委托方应遵守国家法律法规的责任。此核查声明不对 SGS 造成约束，SGS 没有责任面对除其委托方以外的任何一方。

本温室气体核查声明是以英语订立。若有任何译文差异，以英文版为准。

附录 A 组织边界清单

组织边界清单

组织名称	组织边界描述
上纬国际投资控股股份有限公司	南投县南投市东闵路 588 号
上纬创新育成股份有限公司	南投县南投市东闵路 588 号
磁震科技开发股份有限公司	台中市梧栖区经一路 21 号
上纬兴业股份有限公司	南投县南投市工业南六路 9 号
旺来企业股份有限公司	南投县南投市工业南六路 11 号
上伟碳纤复合材料股份有限公司	南投县南投市工业南六路 11 号
上纬新材料科技股份有限公司	中国上海市松江区松胜路 618 号
上纬（江苏）新材料有限公司	中国江苏省盐城市阜宁高新技术产业开发区纬二路 27 号
上伟（江苏）碳纤复合材料有限公司	中国江苏省盐城市阜宁经济开发区协鑫大道 26 号
上纬（天津）风电材料有限公司	中国天津经济技术开发区汉沽现代产业区彩云街 6 号
上纬（马）有限公司	PLO 212, Jalan Rumbia 5 Kawasan Perindustrian Tanjung Langsat 81700 Pasir Gudang, Johor Darul Takzim, Malaysia
上纬再生利用（江苏）有限公司	中国江苏省盐城市阜宁经济开发区协鑫大道 26 号

附录 B 温室气体排放清单（按 ISO14064-1:2018）

温室气体排放清册（按 ISO14064-1:2018）

组织名称	上纬国际投资控股股份有限公司	
组织边界	详见附录 A 中组织边界	
报告期	2024 年 01 月 01 日至 2024 年 12 月 31 日	
	报告边界	温室气体排放量 (单位: 吨二氧化碳当量)
	类别	
直接排放	类别 1 直接排放	1,800.89
间接排放	类别 2 输入能源的间接排放	8,948.77
	类别 3 运输产生的间接排放	162.76
	类别 4 组织使用产品的间接排放	属于非重大间接排放, 未量化
	类别 5 与组织的产品使用有关的间接排放	属于非重大间接排放, 未量化
	类别 6 其他间接排放	属于非重大间接排放, 未量化

Statement of Conformity CN25/00001676



Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in
01 Jan. 2024 to 31 Dec. 2024 of

SWANCOR HOLDING CO., LTD.

Business address: No. 588, Dongmin Road, Nantou City 540

Organization boundary: Detail organization boundary information has been listed in Annex,
for multi-site statement

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

ISO 14064-1:2018

Direct Emissions

1,800.89 tonnes of CO₂e

Indirect Emissions

9,111.53 tonnes of CO₂e

Total Emissions Quantified

10,912.42 tonnes of CO₂e

The specific categories of indirect greenhouse gas emissions are detailed in the
appendix of this statement, which is an integral part of this statement

Authorised by

David Xin

Sr. Director - Business Assurance

DATE: 28 Feb. 2025

SGS-CSTC Standards Technical Services Co., Ltd.
16F Century YuHui Mansion, No. 73 Fucheng Road, Beijing, P.R. CHINA 100142
t +86 (0)10 58251188 www.sgsgroup.com.cn



This document is an authentic electronic certificate for Client' business purposes use only. Printed version of the electronic certificate are permitted and will be considered as a copy.
This document is issued by the Company subject to SGS General Conditions of certification services available on [Terms and Conditions | SGS](#). Attention is drawn to the limitation of
liability, indemnification and jurisdictional clauses contained therein. This document is copyright protected and any unauthorized alteration, forgery or falsification of the content or
appearance of this document is unlawful.

Several statements have been issued for this scope, this is main statement

Page 1 of 5



SGS has been contracted by SWANCOR HOLDING CO., LTD. (hereinafter referred to as "CLIENT"), for the verification of direct and indirect Greenhouse Gas emissions in accordance with

ISO 14064-3:2019

as provided by SWANCOR HOLDING CO., LTD. (hereinafter referred to as "RESPONSIBLE PARTY"), in the Greenhouse Gas (GHG) Assertion in the form of GHG Report covering GHG emissions of the period 01 Jan. 2024 to 31 Dec. 2024 (hereinafter referred to as "REPORT PERIOD").

Roles and responsibilities

The management of the RESPONSIBLE PARTY 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.

It is SGS's responsibility to express an independent GHG verification opinion on the GHG statement as provided by the RESPONSIBLE PARTY for the REPORT PERIOD.

According to ISO 14064-3:2019, SGS has conducted a third-party verification of the provided GHG statement by RESPONSIBLE PARTY against the requirements of ISO 14064-1:2018 in the period 17-19 Feb. 2025 (SWANCOR ADVANCED MATERIALS CO., LTD.), 18 Feb. 2025 (SWANCOR HOLDING CO., LTD.), 19-21 Feb. 2025 (COTECH, Inc.), 20-22 Feb. 2025 (SWANCOR RECYCLING TECHNOLOGY (JIANGSU) CO., LTD.), 24-26 Feb. 2025 (SWANCOR (TIANJIN) WIND BLADE MATERIALS CO., LTD.), 28 Feb. 2025 (SWANCOR INNOVATION & INCUBATION CO., LTD.). The verification is based on the verification scope, objectives and criteria as agreed between the CLIENT and SGS on 13 Feb. 2025.

Level of Assurance

The level of assurance agreed is that of Reasonable assurance.

Scope

The CLIENT has commissioned an independent verification by SGS in accordance to ISO 14064-3:2019 to assure the reported GHG emissions of RESPONSIBLE PARTY, in conformance with ISO 14064-1:2018 requirements within the scope of the verification as outlined below. The data and information supporting the GHG statement is historical in nature.

This engagement covers verification of emission from anthropogenic sources of greenhouse gases included within the organization's boundary:

- The organizational boundary is established following Operational control approach
- Location/boundary of the activities: detail boundary information has been listed in Annex
- Physical infrastructure, activities, technologies and processes: Development and manufacture of synthetic resins, carbon fiber reinforced composite materials and products thereof
- GHG sources, sinks and/or reservoirs included: GHG sources as presented in the GHG inventory and report of the RESPONSIBLE PARTY
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- GHG information for the following period was verified: 01 Jan. 2024 to 31 Dec. 2024
- GWP adopted: IPCC 6 Assessment Report.
- Intended user of the verification statement: Clients, the public, and government, etc.

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.

Criteria

Criteria against which the verification assessment is undertaken are the requirements of ISO 14064-3:2019.

Materiality

The materiality required of the verification is considered by SGS to 5%, based on the needs of the intended user of the GHG statement.

Verification approach

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 of evidence relevant to the amounts and disclosures in relation to the organization's reported GHG emissions

We plan and perform our work to obtain the information, explanations and evidence that we considered necessary to provide a reasonable level of assurance that the GHG emissions for the REPORT PERIOD are fairly stated.

We conduct our verification with regard to the GHG statement of GHG Report of the RESPONSIBLE PARTY which includes assessment of GHG information system and reporting plan/protocol. This assessment includes the collection of evidence supporting the reported data, and checking whether the provisions of the protocol reference, are consistently and appropriately applied.

Verification opinion conclusion

The RESPONSIBLE PARTY provided the GHG statement based on the requirements of ISO 14064-1:2018 that total emission 10,912.42 tonnes of CO₂e in the organization boundary for the REPORT PERIOD.

The verification opinion as below is issued by SGS after an independent verification for RESPONSIBLE PARTY's GHG statement base on agreed Reasonable assurance:

Unmodified

The GHG statement submitted by RESPONSIBLE PARTY is prepared in accordance with ISO 14064-1:2018 on GHG quantification and reporting, is a fair representation materially, the GHG data and information in statement are explicit and supported by adequacy and appropriate evidence.

Modified

The GHG statement submitted by RESPONSIBLE PARTY has no material misstatement, however has some deficiencies which will prevent the issuance of unmodified verification opinion.

Adverse opinion

The GHG statement submitted by RESPONSIBLE PARTY:

- has no material misstatement or
- there is insufficient or inappropriate evidence to support an unmodified or modified opinion.

Disclaiming the issuance of an opinion

It is unable to obtain sufficient and appropriate objective evidence to form an opinion as to whether the GHG statement submitted is presented fairly in accordance with ISO 14064-1:2018

This statement shall be interpreted with the GHG statement of GHG Report of the RESPONSIBLE PARTY as a whole.

Note: This Statement is issued by SGS-CSTC Standards Technical Services Co., Ltd. ("SGS") under its General Conditions for Greenhouse Gas Validation & Verification Services. The findings recorded hereon are based upon a verification performed by SGS. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted from RESPONSIBLE PARTY. This Statement does not relieve Client from compliance with any by laws, 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.

The verification statement of greenhouse gases is concluded in English. Any translation differences, the English version shall prevail.

Appendix A: List of Organizational Boundaries

List of Organizational Boundaries

Organization name	Description of organizational boundary
SWANCOR HOLDING CO., LTD. SWANCOR INNOVATION & INCUBATION CO., LTD.	No. 588, Dongmin Road, Nantou City 540 No. 588, Dongmin Road, Nantou City 540
COTECH, Inc.	No. 21, Jing 1st Rd., Wuqi Dist., Taichung City 435059
SWANCOR HIGHPOLYMER CO., LTD.	No. 9, Industry South 6 Road, Nantou City 54066
S-Wanlai Co., LTD.	No. 11 Industry South 6 Road, Nantou City 54066
SUNWELL CARBON FIBER COMPOSITE CORPORATION	No. 11 Industry South 6 Road, Nantou City 54066
SWANCOR ADVANCED MATERIALS CO., LTD.	No. 618 Songsheng Road, Songjiang District, Shanghai, P.R. China
SWANCOR (JIANGSU) NEW MATERIAL CO., LTD.	No. 27, Weier Road, Funing High and New Technology Industrial Park, Yancheng City, Jiangsu Province, P.R. China
SUNWELL (JIANGSU) CARBON FIBER COMPOSITE CO., LTD.	No. 26, Xiexin Road, Funing Economic and Technological Development Zone, Yancheng City, Jiangsu Province, P.R. China
SWANCOR (TIANJIN) WIND BLADE MATERIALS CO., LTD.	No. 6, Caiyun Street, Hangu Modern Industrial Park, Tianjin Economic and Technological Development Area, Tianjin, P.R. China
SWANCOR IND (M) SDN. BHD.	PLO 212, Jalan Rumbia 5 Kawasan Perindustrian Tanjung Langsat 81700 Pasir Gudang, Johor Darul Takzim, Malaysia
SWANCOR RECYCLING TECHNOLOGY (JIANGSU) CO., LTD.	No. 26, Xiexin Road, Funing Economic and Technological Development Zone, Yancheng City, Jiangsu Province, P.R. China

Appendix B Greenhouse Gas Emissions Inventory (ISO14064-1:2018)**Greenhouse Gas Emissions Inventory (ISO14064-1:2018)**

Organization name	SWANCOR HOLDING CO., LTD.	
Organizational boundary	Detail refer to organization boundaries in appendix A	
Reporting period	01 Jan. 2024 to 31 Dec. 2024	
Report boundary	Category	Greenhouse gas emissions (Unit: tonnes of CO ₂ e)
Direct GHG emissions	Category 1 direct GHG emissions	1,800.89
Indirect GHG emissions	Category 2 indirect GHG emissions from imported energy	8,948.77
	Category 3 indirect GHG emissions from transportation	162.76
	Category 4 indirect GHG emissions from products used by organization	be determined as non-significant indirect emissions and be not quantified
	Category 5 indirect GHG emissions associated with the use of products from the organization	be determined as non-significant indirect emissions and be not quantified
	Category 6 indirect GHG emissions from other sources	be determined as non-significant indirect emissions and be not quantified