

Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in year 2020 of

Advantech Co., Ltd.

No.1, Alley 20, Lane 26, Rueiguang Rd., Neihu District,
Taipei City 114, Taiwan



has been verified in accordance with ISO 14064-3:2006 as
meeting the requirements of

ISO 14064-1:2006

Direct emissions

636.1310 tonnes of CO₂e

Energy indirect emissions

9,819.0357 tonnes of CO₂e

Direct emissions and energy indirect emissions

10,455.167 tonnes of CO₂e

Authorized by



David Huang

Senior Director

Date: 05 February 2021

Version 1

TGP56A-15-1 2101

SGS Taiwan Ltd.

No. 136-1, Wu Kung Road, New Taipei Industrial Park, Wu Ku District,

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SGS has been contracted by Advantech Co., Ltd. (hereinafter referred to as “Advantech”), No.1, Alley 20, Lane 26, Rueiguang Rd., Neihu District, Taipei City 114, Taiwan for the verification of direct and indirect Greenhouse Gas emissions in accordance with

ISO 14064-3:2006

as provided by Advantech (hereinafter referred to as “Advantech”) , No.1, Alley 20, Lane 26, Rueiguang Rd., Neihu District, Taipei City 114, Taiwan, in the GHG Assertion in the form of GHG report covering GHG emissions of the period 01 January 2020 to 31 December 2020.

Roles and responsibilities

The management of Advantech 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 emissions as provided in the GHG Assertion for the period 01 January 2020 to 31 December 2020.

SGS conducted a third party verification of the provided GHG assertion against the principles of ISO 14064-1:2006, ISO 14064-3:2006 in the period 11 January 2021 to 26 January 2021. The verification was based on the verification scope, objectives and criteria as agreed between Advantech and SGS on 03 December 2020.

Level of Assurance

The level of assurance agreed is that of reasonable assurance.

Scope

Advantech has commissioned an independent verification by SGS Taiwan of reported GHG emissions of Advantech arising from Design and manufacture of Industrial Automation Series Product (Signal Process Module, Interface Card), Industrial PC Series Product (Industrial Workstation), Embedded PC Series, Wire/Wireless Communication Product, Industrial Panel PC Series Product, Video & Audio Product, Instrument product and Medical Computing Platform Product activities, to establish conformance with ISO 14064:2006 principles within the scope of the verification as outlined below.

Statement TW21/00005GG, continued

This engagement covers verification of emission from anthropogenic sources of greenhouse gases included within the organization's boundary and is based on ISO 14064-3:2006.

- Title or description activities: GHG verification for Advantech in year 2020
- Location/boundary of the activities:
 - Headquarters: No.1, Alley 20, Lane 26, Rueiguang Rd., Neihu District, Taipei City 114, Taiwan
 - Sunny Building: No.33, Lane 365, Yang Guang Street, Neihu District, Taipei City 114, Taiwan
 - Donghu Manufacture Center: B1, 4~7F, No.1, Lane 169, Kang-Ning St., Xizhi District, New Taipei City 221, Taiwan
 - Linkou Campus: No.27 / No. 27-3, Wende Rd., Kueishan District, Taoyuan City 333, Taiwan
- Physical infrastructure, activities, technologies and processes of the organization: Design and manufacture of Industrial Automation Series Product (Signal Process Module, Interface Card), Industrial PC Series Product (Industrial Workstation), Embedded PC Series, Wire/Wireless Communication Product, Industrial Panel PC Series Product, Video & Audio Product, Instrument product and Medical Computing Platform Product
- GHG sources, sinks and/or reservoirs included: Sources as presented in the inventory spreadsheet provided by Advantech
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- The IPCC 2013 AR5 GWP values are applied in this inventory.
- Electricity emission factor: 0.509 kgCO₂e/kwh (Announced by Bureau of Energy, Ministry of Economic Affairs in 2020)
- Directed actions: NA
- GHG information for the following period was verified: 01 January 2020 to 31 December 2020
- The version of inventory sheet: 20210126, A0
- The version of GHG assertion: 20210202, A1
- Intended user of the verification statement: 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 assertion
- 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 principles of ISO 14064-1:2006.

Materiality

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

Conclusion

Advantech provided the GHG assertion based on the requirements of ISO14064-1: 2006. The GHG information for the period 01 January 2020 to 31 December 2020 disclosing emissions of 10,455.167 metric tonnes of CO₂ equivalent and 0.0000 metric tonnes of direct CO₂ emissions from the combustion of biomass are verified by SGS to a reasonable level of assurance, consistent with the agreed verification scope, objectives and criteria.

The emission of each site is described as below:

Unit: tonnes of CO₂e

Site	Direct emissions	Energy indirect emissions	Direct emissions and energy indirect emissions
Headquarters	113.5997	1,252.4921	1,366.092
Sunny Building	116.6942	1,511.5186	1,628.213
Donghu Manufacture Center	0.1345	846.6502	846.785
Linkou Campus	405.7026	6,208.3748	6,614.077

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 we considered necessary to provide a reasonable level of assurance that the GHG emissions for the period 01 January 2020 to 31 December 2020 are fairly stated.

We conducted our verification with regard to the GHG assertion of Advantech which included assessment of GHG information system, monitoring and reporting plan/protocol. This assessment included the collection of evidence supporting the reported data, and checking whether the provisions of the protocol reference, were consistently and appropriately applied.

In SGS's opinion the presented GHG assertion

- is materially correct and is a fair representation of the GHG data and information, and
- is prepared in accordance with ISO14064-1:2006 on GHG quantification, monitoring and reporting.

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 statement shall be interpreted with the GHG assertion of Advantech as a whole.

Verifier Group

Above statements coincide with auditing process with fairness and impartiality, and aim at the emission of year 2020 of clients.

Lead Verifier:

Alicia Su

Verifier:

Alfie Cheng

Note: This Statement 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 statement, the findings and the supporting GHG Assertion may be consulted at Advantech Co., Ltd. No.1, Alley 20, Lane 26, Rueiguang Rd., Neihs District, Taipei City 114, Taiwan, 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 SGS and SGS shall have no responsibility vis-à-vis parties other than its Client.

温室气体核查陈述

VERIFICATION STATEMENT OF GREENHOUSE GAS EMISSION

No. INV-2021-JSJ-0003

本核查陈述针对:

This is to verify that:

研华科技（中国）有限公司

Advantech Technology (China) Co., Ltd.

地址: 江苏省昆山市玉山镇汉浦路 600 号、887 号

Add: No.600&887, Hanpu Road, Yushan Town, Kunshan City, Jiangsu Province, P.R.China

中国质量认证中心根据相关核查程序发布本核查陈述。

CQC issues a verification statement according to related verification procedures.

中国质量认证中心认为:

CQC here confirms that:

- ◆ **2021 年 1 月 6 日**发布的研华科技（中国）有限公司温室气体排放报告（版本：**A01**）表明研华科技（中国）有限公司在 **2020 年 1 月 1 日**到 **2020 年 12 月 31 日**之间温室气体排放量为 **20114 吨 CO₂ 当量**，温室气体清除量为 **0 吨 CO₂ 当量**。

It's asserted in Advantech Technology (China) Co., Ltd. Greenhouse Gas Emission Report (Version: **A01**) published on **Jan. 6th, 2021** that Advantech Technology (China) Co., Ltd. Greenhouse Gas Emission was **20114 tonnes CO₂ Equivalent** and Greenhouse Gas Removal was **0 tonnes CO₂ Equivalent** from **Jan. 1st, 2020** to **Dec. 31st, 2020**.

- ◆ 研华科技（中国）有限公司温室气体排放和清除的量化、监测和报告遵从 **ISO 14064-1:2006** 的相关要求。
The quantification, monitoring and reporting of Advantech Technology (China) Co., Ltd. Greenhouse Gas emissions and removals comply with the requirement of **ISO 14064-1:2006**.
- ◆ 该声明不存在实质性偏差，达到了预先商定的合理保证等级。
The assertion has no material errors and reaches the reasonable level of assurance which was prior negotiated.



主任
President

陆梅

Lu Mei



中国质量认证中心

CHINA QUALITY CERTIFICATION CENTRE