

# Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in year 2022 of

**Lanner Electronics Inc.**

7F., No. 173, Sec. 2, Datong Rd., Xizhi Dist.,  
New Taipei City 221, Taiwan (R.O.C.)



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

**ISO 14064-1:2018**

Direct emissions

**8.1741 tonnes of CO<sub>2</sub>e**

Indirect emissions

**3,396.2332 tonnes of CO<sub>2</sub>e**

Direct emissions and indirect emissions

**3,404.407 tonnes of CO<sub>2</sub>e**

Authorized by



Stephen Pao

Knowledge Deputy General Manager

Date: 12 September 2023

Version 1

TGP56A-15-6 2207

SGS Taiwan Ltd.

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# Statement TW23/00479GG, continued

The emission of each category is described as below:

Unit: tonnes of CO<sub>2</sub>e

Reporting Boundaries		GHG Emissions	
Inventory categories	Description		
Direct emissions	This direct GHG emissions are the sum of owned or controlled by the organization within the organization.	8.1741	
Indirect emissions	Imported energy	Electricity	2,797.8514
	Transportation	<ul style="list-style-type: none"> <li>Upstream transportation and distribution (top 50 suppliers)</li> <li>Business travel</li> <li>Downstream transportation and distribution</li> </ul>	89.4626
	Products used by an organization	<ul style="list-style-type: none"> <li>Fuel- and energy-related activities (not included in category 1 or category 2)</li> <li>Transportation and treatment for waste generated in operations</li> <li>Purchased goods (only paper)</li> </ul>	508.9193
	Associated with the use of products from the organization	(not significant)	--
	Other sources	(not significant)	--
Direct emissions and indirect emissions		3,404.407	



## Statement TW23/00479GG, continued

SGS has been contracted by Lanner Electronics Inc. (hereinafter referred to as "Lanner"), 7F., No. 173, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.) for the verification of direct and indirect Greenhouse Gas emissions in accordance with

### ISO 14064-3:2006

as provided by Lanner Electronics Inc. (hereinafter referred to as "Lanner"), 7F., No. 173, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.), in the GHG Assertion in the form of GHG report covering GHG emissions of the period 01 January 2022 to 31 December 2022.

### Roles and responsibilities

The management of Lanner 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 2022 to 31 December 2022.

SGS conducted a third-party verification of the provided GHG assertion against the principles of ISO 14064-1:2018, ISO 14064-3:2006 in the period 02 August 2023 to 18 August 2023. The verification was based on the verification scope, objectives and criteria as agreed between Lanner and SGS on 07 November 2022.

### Level of Assurance

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.

### Scope

Lanner has commissioned an independent verification by SGS Taiwan of reported GHG emissions of Lanner arising from Design / Development, Manufacturing, Sales and Service of Industrial PC, Network Communication and Telecommunication Hardware Platforms activities, to establish conformance with ISO 14064:2018 principles within the scope of the verification as outlined below.

## Statement TW23/00479GG, 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 Lanner in year 2022
- Location/boundary of the activities:

Site	Location/boundary of the activities
Headquarters	<ul style="list-style-type: none"> <li>• 5F. &amp; 7F., No. 171, 171-1, 171-2, 171-3, 173, 175, 175-1, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)</li> <li>• 6F. &amp; 8F., No. 175, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)</li> </ul>
Datong site	<ul style="list-style-type: none"> <li>• 4F. &amp; 9F., No. 151, 153, 155, 157, 159, 161, 163, 165, 167, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)</li> <li>• 5F., No. 151, 153, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)</li> <li>• 8F., No. 155, 157, 159, 165, 167, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)</li> <li>• 7F., No. 165, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)</li> </ul>
Zhongxing Site	<ul style="list-style-type: none"> <li>• 6F-1~6F-7 &amp; 7F-1~7F-7, No. 22, Zhongxing Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)</li> <li>• 3F. &amp; 4F., No. 34, Zhongxing Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)</li> <li>• 4F., No. 32, Zhongxing Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)</li> </ul>

- Physical infrastructure, activities, technologies and processes of the organization: Design / Development, Manufacturing, Sales and Service of Industrial PC, Network Communication and Telecommunication Hardware Platforms.
- GHG sources, sinks and/or reservoirs included: Sources as presented in the inventory spreadsheet provided by Lanner
- Types of GHGs included: CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub>, NF<sub>3</sub>
- The IPCC 2021 AR6 GWP values are applied in this inventory.
- Emission factor:
  - Direct emissions: Greenhouse Gas Emission Factor Table (6.0.4), EPA.



## Statement TW23/00479GG, continued

- Indirect emissions:
  - Electricity emission factor is 0.495 kgCO<sub>2</sub>e/kwh (Announced by Bureau of Energy, Ministry of Economic Affairs in 2023).
  - The secondary database has Carbon Footprint Information Platform, ClimateCare Calculator, EPA GHG Emission Factors Hub 2022, Carbon Footprint of High Speed Rail Transportation Service.
- Directed actions: NA
- GHG information for the following period was verified: 01 January 2022 to 31 December 2022
- The version of inventory sheet: V2
- The version of GHG assertion: V1(2023/08/24)
- 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 14064-1:2018

### 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

Lanner provided the GHG assertion based on the requirements of ISO14064-1: 2018. The GHG information for the period 01 January 2022 to 31 December 2022 disclosing emissions of 3,404.407 metric tonnes of CO<sub>2</sub> equivalent and 0.0000 metric tonnes of direct CO<sub>2</sub> 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.

# Statement TW23/00479GG, continued

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Inventory categories	Description		
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	Products used by an organization	<ul style="list-style-type: none"> <li>Fuel- and energy-related activities (not included in category 1 or category 2)</li> <li>Transportation and treatment for waste generated in operations</li> <li>Purchased goods (only paper)</li> </ul>	508.9193
	Associated with the use of products from the organization	(not significant)	--
	Other sources	(not significant)	--
Direct emissions and indirect emissions			3,404.407

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 of category 1 and category 2, and limited level of assurance of category 3 till category 6 for the period 01 January 2022 to 31 December 2022 are fairly stated.

We conducted our verification with regard to the GHG assertion of Lanner 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.



## Statement TW23/00479GG, continued

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 ISO14064-1:2018 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 conducted 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 Lanner as a whole.

### Verifier Group

Above statements coincide with auditing process with fairness and impartiality and aim at the emission of year 2022 of clients.

Lead Verifier:

Emma Kao

Verifier:

Brian Lu

Aiden Tsenz

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](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 Lanner Electronics Inc., 7F., No. 173, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.). 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.