

Greenhouse Gas Verification Opinion

The inventory of Greenhouse Gas emissions in year 2024 of

Coretronic Corporation

No. 11, Lixing Rd., East Dist., Hsinchu Science Park,
Hsinchu City 300, Taiwan (R.O.C.)

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

ISO 14064-1:2018

Opinion Type: Modified

Direct emissions

144.3108 tonnes of CO_{2e}

Indirect emissions

15,198.7754 tonnes of CO_{2e}

Direct emissions and indirect emissions

15,343.086 tonnes of CO_{2e}

Authorized by



Stephen Pao

Business Assurance Director

Date: 01 April 2025

Version 1

TGP56B-15-1 2501

SGS Taiwan Ltd.

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

Wu Ku District, New Taipei City 248016, Taiwan

t (02) 22993279 f (02)22999453 www.sgs.com



Validation and Verification

VB002

The emission of each category is described as below:

Unit: tonnes of CO₂e

Reporting Boundaries			GHG Emissions
Inventory categories		Description	
Direct emissions		Direct emissions from stationary combustion	38.0510
		Direct emissions from mobile combustion	20.8768
		Direct process emissions and removals from industrial processes	0.0000
		Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	85.3830
		Direct emissions and removals from land use, land use change and forestry	0.0000
Indirect emissions	Imported energy	Indirect emissions from purchased power	5,787.3627
	Transportation	Indirect emissions from transportation of raw materials and products, employee commuting and business travel	1,437.1972
	Products used by an organization	Indirect emissions from purchased raw materials, energy and resource, waste clearance and treatment, wastewater treatment and the use of assets	7,974.2155
	Associated with the use of products from the organization	NA	NA
	Other sources	NA	NA
Direct emissions and indirect emissions			15,343.086

The emission of each site is described as below:

Unit: tonnes of CO₂e

Site	Direct emissions	Indirect emissions		Total GHG emissions
	Category 1	Category 2	Category 3~6	
Hsinchu Plant	47.6509	2,231.4968	1,146.1953	3,425.343
Chunan Plant	65.6754	1,251.4992	991.4103	2,308.585
Tainan Branch 1st Plant	22.7963	1,604.9615	3,475.2150	5,102.973
Tainan Branch 2nd Plant	8.1882	699.4052	3,798.5921	4,506.186

SGS has been contracted for the verification of direct and indirect Greenhouse Gas emissions in accordance with

ISO 14064-3:2019

as provided by Coretronic Corporation (hereinafter referred to as “Coretronic”), No. 11, Lixing Rd., East Dist., Hsinchu Science Park, Hsinchu City 300, Taiwan (R.O.C.), in the GHG Statement in the form of GHG report.

Roles and responsibilities

- The management of Coretronic 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.
- The verification was based on the verification scope, objectives and criteria as agreed on 19 May 2023.
- Verification Criteria: ISO 14064-1:2018
- Verification Period: 20 January 2025 to 20 February 2025.

Scope

- GHG information for the following period was verified: 01 January 2024 to 31 December 2024
- Location/boundary of the activities:
 - No. 11, Lixing Rd., East Dist., Hsinchu Science Park, Hsinchu City 300, Taiwan (R.O.C.)
 - No. 2, Kebei 5th Rd., Zhunan Township, Chunan Science Park, Miaoli County, Taiwan (R.O.C.)
 - No. 2-1, Nanke 6th Rd., Xinshi Dist., Southern Taiwan Science Park, Tainan City, Taiwan (R.O.C.)
 - No. 6, Sec. 1, Huanxi Rd., Xinshi Dist., Southern Taiwan Science Park, Tainan City, Taiwan (R.O.C.)
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- The IPCC 2021 AR6 GWP values are applied in this inventory.
- Emission factor:
 - Direct emissions: Greenhouse Gas Emission Factor Table (6.0.4), Greenhouse Gas Emission Factor, MOENV (2024.02.05).

- Indirect emissions:
 - Electricity emission factor is 0.494 kgCO₂e/kwh (Announced by Energy Administration, Ministry of Economic Affairs in 2024).
 - The secondary database has Carbon Footprint Information Platform, Simapro 9.6.0.1, ICAO Carbon Emission Calculator.
- 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.
- Materiality : 5%
- The version of inventory sheet:

Hsinchu Plant	20250310
Chunan Plant	20250310
Tainan Branch 1st Plant	20250221
Tainan Branch 2nd Plant	20250221
- The version of GHG statement:

Hsinchu Plant	20250310
Chunan Plant	20250310
Tainan Branch 1st Plant	20250221
Tainan Branch 2nd Plant	20250221
- Intended user of the verification opinion: 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 statement
- The data reported are accurate, complete, consistent, transparent and free of material error or omission.

Conclusion

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 the GHG emissions are free from material misstatement.

- The greenhouse gas emissions is 15,343.086 metric tonnes of CO₂ equivalent
- The emissions from the combustion of biomass is 0.0000 metric tonnes of CO₂ equivalent

The emission of each category is described as below:

Unit: tonnes of CO₂e

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- The opinion of SGS is modified in accordance with the following described circumstances.
 - The verifier has sufficient and appropriate evidence to support the material emissions, removals, or storage.
 - The verifier applies appropriate criteria for the material emissions, removals, or storage.
 - When the verifier intends to rely on relevant controls, the effectiveness of those controls has been assessed.
 - The verifier, applying the ISO 14064-1:2018 standard, presents the following findings. After adjustments and corrections, no material errors were identified.
 - Activity data errors have been corrected.
 - Emission coefficient reference error has been corrected.
- Retention Limitation: NA

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 opinion shall be interpreted with the GHG statement of Coretronic as a whole.

Verifier Group

Above opinions coincide with auditing process with fairness and impartiality and aim at the emission of year 2024 of clients.

Lead
Verifier
:

Kevin Hsieh

Verifiers:
:

Kyle Lu.

Finn Han

John Chiang

Carol Chen

Note: This opinion 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 opinion, the findings and the supporting GHG Statement may be consulted at Coretronic Corporation, No. 11, Lixing Rd., East Dist., Hsinchu Science Park, Hsinchu City 300, Taiwan (R.O.C.), This opinion 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.