

Greenhouse Gas Verification Opinion

The inventory of Greenhouse Gas emissions in year 2023 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

Direct emissions

238.2927 tonnes of CO₂e

Indirect emissions

19,832.2906 tonnes of CO₂e

Direct emissions and indirect emissions

20,070.583 tonnes of CO₂e

Authorized by

Stephen Pao

Business Assurance Director

Date: 30 April 2024

Version 1

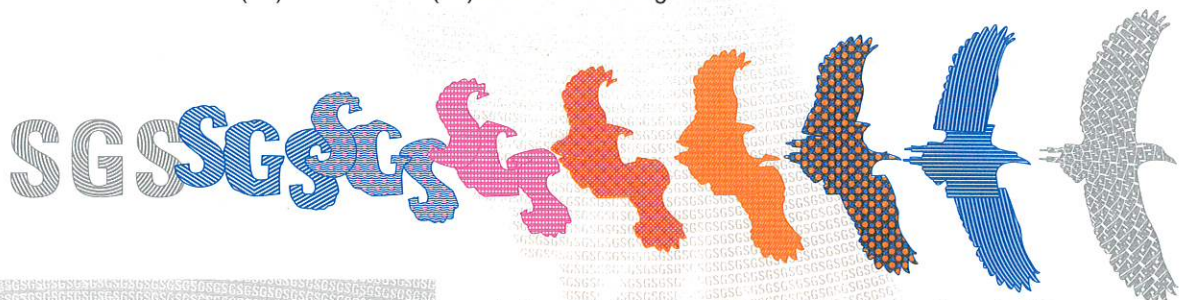
TGP56B-15-1 2401

SGS Taiwan Ltd.

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

New Taipei City 24803, Taiwan

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



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	56.2807
	Direct emissions from mobile combustion	25.6059
	Direct process emissions and removals from industrial processes	NA
	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	156.4061
	Direct emissions and removals from land use, land use change and forestry	NA
Indirect emissions	Imported energy	6,324.3181
	Transportation	1,422.2963
	Products used by an organization	12,085.6762
	Associated with the use of products from the organization	NA
	Other sources	NA
Direct emissions and indirect emissions		20,070.583

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	94.5972	2,090.2860	1,211.7159	3,396.599
Chunan Plant	87.3292	1392.5786	797.1988	2,277.107
Tainan Branch 1st Plant	33.9849	1961.6405	3,165.6348	5,161.260
Tainan Branch 2nd Plant	22.3814	879.8130	8,333.4230	9,235.617

SGS, No. 136-1, Wu Kung Road, New Taipei Industrial Park, Wu Ku District, New Taipei City 24803, Taiwan, has been contracted by Coretronic Corporation (hereinafter referred to as “Coretronic”), No. 11, Lixing Rd., East Dist., Hsinchu Science Park, Hsinchu City 300, Taiwan (R.O.C.) 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 between Coretronic and SGS on 19 May 2023.
- Verification Criteria: ISO 14064-1:2018, ISO 14064-3:2019
- Verification Period: 22 January 2024 to 26 February 2024.

Scope

- GHG information for the following period was verified: 01 January 2023 to 31 December 2023
- 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 Inventory Operation Guideline (2024.03).
 - Indirect emissions:
 - Electricity emission factor is 0.495 kgCO₂e/kwh (Announced by Energy Administration, Ministry of Economic Affairs in 2023).
 - The secondary database has Carbon Footprint Information Platform, Simapro 9.5.0.0. 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, Chunan Plant, Tainan Branch 1st Plant, Tainan Branch 2nd Plant: 2024.4.29 · V3
- The version of GHG statement: Hsinchu Plant, Chunan Plant, Tainan Branch 1st Plant, Tainan Branch 2nd Plant: 2024.2 · V3
- 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 20,070.583 metric tonnes of CO₂ equivalent
- The emissions from the combustion of biomass is 0.0000 metric tonnes of CO₂ equivalent

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	94.5972	2,090.2860	1,211.7159	3,396.599
Chunan Plant	87.3292	1392.5786	797.1988	2,277.107
Tainan Branch 1st Plant	33.9849	1961.6405	3,165.6348	5,161.260
Tainan Branch 2nd Plant	22.3814	879.8130	8,333.4230	9,235.617

- 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.
 - The distance of the employees commuting of Tainan Branch 1st Plant and Hsinchu Plant is wrong.
 - The weight of some raw materials in Tainan Branch 1st Plant is wrong.
 - Hsinchu Plant's business travel data collection was corrected.
 - The calculation period of the water, electricity and natural gas activity data of the dormitory of Hsinchu Plant is adjusted.
- Retention Limitation: NIL

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 2023 of clients.

Lead Verifier: *John Chiang*

Verifier: *kyle Lu.* *Sophia Chui*

Ocean Wu

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 Assertion 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.