

Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in year 2024 of
APEX CIRCUIT (THAILAND) CO., LTD.

39/234-236 Moo 2, RAMA 2 Road, Bangkrachao, Amphur Muang, Samutsakhon 74000, Thailand

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

ISO 14064-1:2018

Direct emissions (Category 1)
14,395.79 tonnes of CO₂e
Energy indirect emissions (Category 2)
152,147.81 tonnes of CO₂e
Indirect emissions (Category 3,4,5,6)
20,516.47 tonnes of CO₂e
Total direct emissions and indirect emissions
187,060.07 tonnes of CO₂e

Authorized by



Montree Tangtermsirikul
General Manager
Date: 07 May 2025

SGS 14064-1
SGS (Thailand) Ltd.
238 TRR Tower, 19th-21st Floor, Naradhiwas Rajanagarindra Road,
Chong Nonsi, Yannawa, Bangkok 10120 Thailand
t (02) 6781813 f (02) 6780620 www.sgs.com



The emissions of energy by location-based approach as below :

Operational Boundaries	GHG Emissions
	Location base
Direct emissions (Category 1)	14,395.79
Energy indirect emissions (Category 2)	152,147.81
Indirect emissions (Category 3,4,5,6)	20,516.47
Total Direct emissions and indirect emissions	187,060.07

Unit: tonnes of CO₂e

SGS has been contracted by Apex Circuit Co., Ltd. (hereinafter referred to as "APEX"), 39/234-236 Moo 2, RAMA 2 Road, Bangkrachao, Amphur Muang, Samutsakhon, 74000, Thailand, for the verification of direct and indirect Greenhouse Gas emissions in accordance with

ISO 14064-3:2019

as provided by Apex Circuit Co., Ltd. (hereinafter referred to as "APEX"), 39/234-236 Moo 2, RAMA 2 Road, Bangkrachao, Amphur Muang, Samutsakhon 74000, Thailand in the GHG Assertion in the form of GHG report covering GHG emissions of the period 01 January 2024 to 31 December 2024.

Roles and responsibilities

The management of APEX 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 2024 to 31 December 2024.

SGS conducted a third-party verification of the provided GHG assertion against the principles of ISO 14064-1:2018, ISO 14064-3:2019 in the period 01 January 2024 to 31 December 2024. The verification was based on the verification scope, objectives and criteria as agreed between APEX and SGS on 17 October 2024.

Level of Assurance

The level of assurance agreed is that of limited assurance.

Scope

APEX has commissioned an independent verification by SGS of reported GHG emissions of APEX arising from Manufacture printed circuit board (PCB) activities, to establish conformance with ISO 14064:2018 principles within the scope of the verification as outlined below.

This engagement covers verification of emission from anthropogenic sources of greenhouse gases included within the organization's boundary and is based on ISO 14064-3:2019.

- Title or description activities: GHG verification APEX in year 2024
- Location/boundary of the activities:

No.	Site	Address
1	Apex Circuit (Thailand) Co.,Ltd. (Apex 1)	39/234-236 Moo 2, RAMA 2, Bangkrachao, Amphur Muang, Samutsakhon, 74000, Thailand
2	Apex Circuit (Thailand) Co.,Ltd. (Apex 2)	30/101, 102 Moo 1, Khok Kham, Amphur Muang, Samutsakhon, 74000, Thailand
3	Apex Circuit (Thailand) Co.,Ltd. (Apex 3)	30/101, 102 Moo 1, Khok Kham, Amphur Muang, Samutsakhon, 74000, Thailand
4	Shye Feng Enterprise (Thailand) Co.,Ltd. (Apex S)	88/1 Moo 2, Sethakij Rd., Nadee, Amphur Muang, Samutsakhon, 74000, Thailand
5	Fah Chun Development Co.,Ltd.	28/126 Moo 1, Khok Kham, Amphur Muang, Samutsakhon, 74000, Thailand
6	Singratana Co.,Ltd.	26 Moo 2, Bangkrachao, Amphur Muang, Samutsakhon, 74000, Thailand
7	Apex Circuit (Thailand) Co.,Ltd.	75/55, 16 Fl, Richmond office Bldg, Sukhumvit 26 Road, Khlongton Sub Dist, Khlongtoei Dist., Bangkok, 10110, Thailand
8	Apex International Co.,Ltd.	Rm. 503, 5F., No. 205, Dunhua N. Rd., Songshan Dist., Taipei City 105406, Taiwan (R.O.C.).
9	Apex IPO (Dong Guan) Co.,Ltd.	Room 103, building 6, No. 5, Second Road, Hanxi Shuixinwei Industrial Zone, Chashan, Dongguan City, Guangdong Province, China
10	Approach Excellence Trading Ltd.	1F., No. 21, Ln. 1314, Chunri Rd., Taoyuan Dist., Taoyuan City 330022, Taiwan (R.O.C.)

- Physical infrastructure, activities, technologies and processes of the organization:

No.	Site	Scope
1	Apex Circuit (Thailand) Co.,Ltd. (Apex 1)	Manufacture printed circuit boards (PCB)
2	Apex Circuit (Thailand) Co.,Ltd. (Apex 2)	Manufacture printed circuit boards (PCB)
3	Apex Circuit (Thailand) Co.,Ltd. (Apex 3)	Manufacture printed circuit boards (PCB)
4	Shye Feng Enterprise (Thailand) Co.,Ltd. (Apex S)	Manufacture printed circuit boards (PCB)
5	Fah Chun Development Co.,Ltd.	Warehouse
6	Singratana Co.,Ltd.	Warehouse
7	Apex Circuit (Thailand) Co.,Ltd.	Domestic office
8	Apex International Co.,Ltd.	Oversea office
9	Apex IPO (Dong Guan) Co.,Ltd.	Oversea office
10	Approach Excellence Trading Ltd.	Oversea office

- GHG sources, sinks and/or reservoirs included: Sources as presented in the inventory spreadsheet provided by APEX
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- The IPCC 2024 AR6 GWP values are applied in this inventory.
- Electricity emission factor: 0.4999 kgCO₂e/kwh
(Announced by Thailand Greenhouse Gas Management Organization in 2022)
- Directed actions: NA
- GHG information for the following period was verified: 01 January 2024 to 31 December 2024
- The version of inventory sheet: Calculating greenhouse gas emissions and removals 2024 date 11/04/2025 version 13
- The version of GHG assertion: Apex Group GHG Emission and removal report 2024 date 14/02/2025 version 3
- 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

APEX provided the GHG assertion based on the requirements of ISO14064-1: 2018. The GHG information for the period 01 January 2024 to 31 December 2024 disclosing emissions of 166,543.59 metric tonnes of CO₂ equivalent (Category 1 and 2) and 20,516.47 metric tonnes of other CO₂ emissions (Category 3, 4, 5, 6) are verified by SGS to a limited level of assurance, consistent with the agreed verification scope, objectives and criteria.

The emission of each category is described as below:

Unit: tonnes of CO₂e

Operational Boundaries			GHG Emissions
Category	Description		Location-based
Direct Emissions	This direct GHG emission are the sum of owned or controlled by the organization within the organization		14,395.79
Indirect emissions	Imported energy	Imported Electricity	152,147.81
		3.1 Business travel	241.24
		3.2 Employee commuting	668.43
		3.3 Downstream transportation and distribution	12,909.62
	Products used by an organization	4.1 Purchased goods and services	6,622.22
		4.2 Waste generated in operations	12.82
		5.1 Downstream leased assets	57.32
	Other sources	6.1 Fire drill basic level training	4.82
Total direct emissions and indirect emissions			187,060.07

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 limited level of assurance that the GHG emissions for the period 01 January 2024 to 31 December 2024 are fairly stated.

We conducted our verification with regard to the GHG assertion of APEX provided 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 ISO14064-1:2018 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 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 APEX provided as a whole.

Verifier Group

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

Lead Verifier:  Penjantorn Tuengjai

Verifier:  Tanawan Rattanapotanan

 Popta Deeudomwongsa

Note: This statement is issued, on behalf of Client, by SGS (Thailand) Ltd. ("SGS") under its General Conditions for Greenhouse Gas Verification Services available at <https://www.sgs.com/en/terms-and-conditions>. The findings recorded here on are based upon an verification performed by SGS. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted at Apex Circuit Co., Ltd. 39/234-236 Moo 2, RAMA 2 Road, Bangkrachao, Amphur Muang, Samutsakhon, 74000 Thailand. This statement does not relieve client from compliance with any bylaws, federal, national or regional acts and regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its client.