

報告編號：(TH25-198 / 第 1 版)

溫室氣體查驗報告意見書
THGHG25198-01

- 查驗範圍： 亞矽科技股份有限公司
114064 臺北市內湖區洲子街 58 號 7 樓~10 樓及 5 樓(部分)
☒涵蓋其他場域範圍如附頁所示。
- 查驗準則： ISO 14064-1：2018
- 查驗目標： 法標根據 ISO 14064-3：2019 標準，確認上述組織之溫室氣體聲明(溫室氣體盤查報告書)依據雙方協議之查驗準則進行盤查並提出報告，法標以客觀公正的立場及原則(相關性、完整性、一致性、準確性、透明度)執行查驗。
- 數據期間： 114 年 01 月 01 日至 114 年 12 月 31 日 (檢視的數據為歷史性質)
- 查驗結果： 直接溫室氣體排放量(類別 1)： 5.4547 公噸 CO₂e
能源間接溫室氣體排放量(類別 2)： 109.4505 公噸 CO₂e
間接溫室氣體排放量(類別 3~6)： 170.8663 公噸 CO₂e
- 全球暖化潛勢值(GWP)：引用 IPCC 第 6 次評估報告，2021 年
- 意見書依據：本意見書必須與下列文件作為一個整體以進行解釋說明。
溫室氣體盤查報告 (版次： 2 ；日期： 115 年 05 月 05 日)
溫室氣體盤查清冊 (版次： 2 ；日期： 115 年 05 月 05 日)
- 實質性： 5% (類別 1 及類別 2)
- 意見類型： ☒不含保留意見 ☐含保留意見(請見附頁) ☐放棄簽發
- 查驗結論： 確認組織依據雙方協議查驗準則之要求提出溫室氣體意見書，並公正地呈現溫室氣體數據及相關資訊，與雙方協議的查驗範圍、目標和準則一致。
意見書盤查數據之合理保證等級為類別 1 及類別 2；有限保證為類別 3 至類別 6。
另外因香港、深圳辦公室為遠距查證亦為有限保證等級
- 本文件核發日期： 115 年 06 月 10 日

APPROVED BY

Dr. August Tsai
Director for Certification
ON BEHALF OF
AFNOR ASIA

113-2024/00

報告編號：(TH25-198 / 第 1 版)

多場址範圍之地理位置：

廠區 / 公司	活動範圍地址
臺北總公司	114064 臺北市內湖區洲子街 58 號 7 樓~10 樓及 5 樓(部分)
台中辦公室	407612 臺中市西屯區市政北七路 186 號 12 樓之 9 (1 室)
台中辦公室(舊址)	407661 臺中市西屯區文心路二段 562 之 1 號 3F 之 1(3F-303 室)
香港辦公室	香港九龍九龍灣啟祥道 26 號同力工業中心 A 座 6 字樓 A13 室
深圳辦公室	中國廣東省深圳市南山區高新區南區高新南一道德賽科技大廈 9 層 0903B 室

各類別排放量數據：

類別	內容說明	溫室氣體排放量 (公噸 CO ₂ e)	備註
(類別 1) 直接溫室氣體排放	固定式燃燒源、移動式燃燒源、 逸散性排放源	5.4547	
(類別 2) 輸入能源之間接溫 室氣體排放	外購電力	109.4505	所在地基準
(類別 3) 運輸之間接溫室氣 體排放	原料上游運輸、產品下游運輸、 員工通勤、商務旅行	52.1809	
(類別 4) 組織使用的產品之 間接溫室氣體排放	產品上游之排放、廢棄物處置	118.6854	
(類別 5) 使用組織的產品之 間接溫室氣體排放	NS	NS	
(類別 6) 其他來源之間接溫 室氣體排放	NA	NA	

生質燃燒排放： 0.0000 公噸 CO₂e

註：本意見書之數據小數點後呈現方式，依照受查驗方之盤查程序等文件之定義呈現；如未定義，則依環境部組織型方案規定呈現-各類別排放量：小數點後 4 位。

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其他查驗相關資訊

組織邊界設定：	營運控制權
溫室氣體類型：	二氧化碳(CO ₂)、甲烷(CH ₄)、氧化亞氮(N ₂ O)、氫氟碳化物(HFCs)、全氟碳化物(PFCs)、六氟化硫(SF ₆)、三氟化氮(NF ₃)
預期使用目的：	自願理解溫室氣體排放狀況做為減量策略依據。 (本聲明責任僅適用於上述預期使用目的，不適用其他任何目的。)
電力係數：	電力係數引用： 台灣地區：2025 年 04 月 14 日能源署公告之 2024 年度電力係數 大陸地區：中國環境生態部公告 2023 年電力二氧化碳排放因子(廣東省)。 香港地區：香港中電集團公告 2024 年度香港中電二氧化碳排放強度。
數據來源：	☒ 初級數據來源於現場營運活動的數據蒐集。 ☒ 類別 3~6 排放量計算為使用估算數據。 次級數據來源為：環境部產品碳足跡資料庫、中國產品全生命週期溫室氣體排放係數庫、中電香港、港鐵有限公司、香港水務署、中華人民共和國生態環境部、深圳市生態環境局 ☐ 其他說明：
查驗方法	☒ 現場查驗 ☒ 其他：香港、深圳辦公室遠距查證
保留意見：	無
其他：	無
查驗作業實施日期：	115 年 04 月 27、28 日 115 年 05 月 05 日
報告日期及版次：	115 年 05 月 13 日，第 01 版。

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查驗團隊與技術審查

主導查驗員： 陳護木

簽名： 陳護木

查驗員： 吳慧宜

簽名： 吳慧宜

查驗員： 吳志賢

簽名： 吳志賢

獨立審查者： 呂木成

簽名： 呂木成

查驗程序

法標以風險評估方法及管制為基礎，證據蒐集程序包括：行前評估、現場訪視、與場址的人員訪談、確認所提供的文件證據、對排放數據進行抽樣、評估數據管理系統、確認排放數據的蒐集與彙總、生產與能源消耗之間的分析，並確認所參考的協議條款是否被適當應用。

角色與職責

受查組織責任方依據查驗準則規定，負責準備並提出溫室氣體聲明。此項責任包括規劃、實施及維護與溫室氣體聲明有關的數據管理系統，溫室氣體盤查清冊和盤查報告確認。

法標對所報告的溫室氣體排放量提供獨立的第三方查驗，出具本次查驗組織型溫室氣體排放量之查驗意見。查驗團隊具獨立及公正性，不存在任何利益衝突。



Certificate

Certificat

Report No. : (TH25-198 / Version 1)

Greenhouse Gas Verification Report Opinion

THGHG25198-01

Verification ASEC International Corporation
Scope: 7F~10F & (part of 5F), No. 58, Zhouzi St., Neihu Dist., Taipei City 114064, Taiwan
☒ The information of other sites are listed on the subsequent page.

Verification ISO 14064-1 : 2018
Criteria:

Verification According to ISO 14064-3:2019, AFNOR Asia Ltd. (AFNOR ASIA) confirms that the GHG
Objectives : statement (GHG inventory report) of the above-mentioned organization(s) is reported in
accordance with the verification criteria agreed by both parties. AFNOR ASIA performs the
verification with an objective and fair position and principle (relevant, complete, consistent,
accurate, and transparent).

Data Period : From 01 01, 2025 to 12 31, 2025 (The data being viewed is historical in nature)

Verification Direct GHG Emissions (Category 1): 5.4547 tCO₂e
Data : Energy Indirect GHG Emissions (Category 2): 109.4505 tCO₂e
Indirect GHG Emissions (Category 3~6): 170.8663 tCO₂e

Global Warming Potential (GWP) : Refer to IPCC The 06-assessment report 2021 Year

Statement Basis : This statement must be interpreted as a whole with the following.

GHG Inventory Report (Version :	2	; Date :	05 05, 2026	)
GHG Inventory (Version :	2	; Date :	05 05, 2026	)

Materiality : 5% (Category 1 and Category 2)

Type of Opinion : ☒ Unqualified ☐ Qualified (see the subsequent page) ☐ Disclaim the issuance

Verification Confirm that the organization has issued a greenhouse gas opinion statement in
Conclusion: accordance with the verification criteria agreed upon by both parties, and that the
greenhouse gas data and related information are fairly presented and consistent with the
agreed verification scope, objectives, and criteria.
The inventory data disclosed in the opinion statement is subject to a reasonable level of
assurance for Category 1 and Category 2 emissions, and a limited level of assurance for
Category 3 to Category 6 emissions. In addition, the Hong Kong and Shenzhen offices are
also subject to a limited level of assurance, as the verification was conducted remotely.

Date of Issuance: 06 10, 2026

APPROVED BY

Dr. August Tsai
Director for Certification
ON BEHALF OF
AFNOR ASIA

Report No. : (TH25-198 / Version 1)

The Geographical Location of Multiple Sites :

Site	Address
ASEC International Corporation	7F~10F & (part of 5F), No. 58, Zhouzi St., Neihsu Dist., Taipei City 114064, Taiwan
ASEC International Corporation (Taichung)	Room 1, 12F-9, No.186, Shizheng N. 7th Rd., Xitun Dist., Taichung City 407612, Taiwan
ASEC International Corporation (Taichung) (Former site)	Rm303,3F-1., No. 562-1, Sec. 2, Wenxin Rd., Xitun Dist., Taichung City 407661, Taiwan
ASEC INTERNATIONAL (H.K.) LIMITED	Unit A13, 6/F, Block A, Tonic Industrial Centre ,26 Kai Cheung Road, Kowloon Bay, KL, Hong Kong
GOLDEN ELECTRONICS (SHENZHEN) CO.,LTD.	Room 0903B, 9/F, Desay Tech Building, Gaoxin South 1st Road, Nanshan District, Shenzhen, Guangdong Province, China

Emissions Data for Each Category :

Category	Description of Content	GHG Emissions (tCO ₂ e)	Note
(Category 1) Direct GHG emissions	Stationary emissions, Mobile emissions, Fugitive emissions	5.4547	
(Category 2) Indirect GHG emissions from imported energy	Purchased Electricity	109.4505	Location-based standard
(Category 3) Indirect GHG emissions from transportation	Upstream transportation of raw materials, Downstream transportation of products, Employee commuting, Business travel	52.1809	
(Category 4) Indirect GHG emissions from products used by the organization	Upstream emissions from purchased goods and services, Waste treatment	118.6854	
(Category 5) Indirect GHG emissions associated with the use of products from the organization	NS	NS	
(Category 6) Indirect GHG emissions from other sources	NA	NA	

Biomass Burning Emission : 0.0000 tCO₂e

Note: The presentation of data after the decimal point in this Verification Report Opinion shall follow the definition of the inventory procedures and other documents of the organization being verified; if not defined, it shall be presented by the provisions of the organizational level of MOENV: 4 decimal places.

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Other Related Verification Information

Organization Boundaries :	Operational control
GHG Type :	Carbon dioxide (CO ₂), Methane (CH ₄), Nitrous oxide (N ₂ O), Hydrofluorocarbon (HFCs), Perfluorocarbon (PFCs), Sulfur hexafluoride (SF ₆), Nitrogen trifluoride (NF ₃)
Purpose of Intended Use:	Voluntarily understanding the status of greenhouse gas emissions as a basis for developing reduction strategies. (This statement of responsibility applies only to the purpose of intended use mentioned above and not to any other purpose.)
Purchased Power Factor:	Electricity Emission Factor References: Taiwan Region: Refer to the 2024 annual power factor announced by the Energy Administration, Ministry of Economic Affairs on 04 14, 2025 Mainland China Region: The 2023 electricity CO ₂ emission factor for Guangdong Province announced by the Ministry of Ecology and Environment of China. Hong Kong Region: The 2024 CO ₂ emission intensity of CLP Power Hong Kong announced by CLP Group.
Data Sources :	☒ The primary data is collected from on-site operation activities. ☒ Category 3~6 emissions are calculated with estimated data. The secondary data sources are: EPA Product Carbon Footprint Information Website 、China Products Carbon Footprint Factors Database 、CLP Power Hong Kong 、MTR Corporation Limited 、Hong Kong Water Supplies Department 、Ministry of Ecology and Environment of the People's Republic of China 、Ecology and Environment Bureau of Shenzhen Municipality ☐ Others :
Verification Method:	☒ On-site ☒ Other : The Hong Kong and Shenzhen offices will be verified remotely.
Qualified Opinion :	NO
Others :	NO
Verification Date :	04 27, 2026 、 04 28, 2026 05 05, 2026
Report Date & Version :	05 13, 2026, Version : 01



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Report No. : (TH25-198 / Version 1)

Verification Team and Technical Review

Lead Verifier : Chen Hu-Mu

Signature : *Chen Hu-Mu*

Verifier : Abby Wu

Signature : *Abby Wu*

Verifier : Wu-chih-hsien

Signature : *Wu-chih-hsien*

Independent Review : Lu, Mu-Cheng

Signature : *Lu, Mu-Cheng*

Verification Processes

AFNOR ASIA is based on risk assessment methods and controls. Evidence collection procedures are including pre-trip assessment, on-site visits, interviews with site personnel, confirmation of documented evidence provided, sampling of emission data, evaluation of data management systems, confirming the collection and compilation of emission data, analysis between production and energy consumption, and confirmation of whether the terms of the agreement referred to are properly applied.

Roles and Responsibilities

The verified organization is responsible for preparing and submitting a GHG statement in accordance with the verification criteria. This responsibility includes the planning, implementation and maintenance of data management systems related to GHG declarations, GHG inventory and GHG inventory reports.

AFNOR ASIA provides independent third-party verification of the reported GHG emissions and issues verification opinions for the organizational GHG emissions. The verification team is independent and impartial, and there is no conflict of interest.