

證書

盤查標準

ISO 14064-1:2018

證書登記號碼

CF 50591054 0001

報告號碼

48219145 001

證書持有者:

大銀微系統股份有限公司

40852 台中市精密機械園區精科中路 6 號

確證與查證場址:

所包括場址已列於證書附件上

確證與查證機構:

台灣德國萊因技術監護顧問股份有限公司

確證與查證標準:

ISO 14064-3:2019

基準年:

- 2022 (2022.01.01~2022.12.31)

確證與查證年度:

- 2022 (2022.01.01~2022.12.31)

方案:

- 自願性溫室氣體方案

查證保證等級:

- 合理保證

彙總方法:

- 營運控制權法

實質性:

- 5%

溫室氣體種類:

- CO₂、CH₄、N₂O、HFCs、PFCs、SF₆、NF₃

確證與查證範圍:

基於取得的資訊進行評估之結論:

- 全球暖化潛勢(GWP): IPCC 2021, AR6

- 碳排放總量為 6,829.3722 噸二氧化碳當量(tCO₂e)

- 類別一 直接排放為 487.6161 噸/二氧化碳當量(tCO₂e)

- 類別二 間接 輸入能源排放為 4,862.9923 噸/二氧化碳當量(tCO₂e)

- 類別三 間接 運輸排放為 532.1260 噸/二氧化碳當量(tCO₂e)

- 類別四 間接 組織使用產品排放為 881.6993 噸/二氧化碳當量(tCO₂e)

- 類別五 間接 與使用組織產品有關排放為 64.9384 噸/二氧化碳當量(tCO₂e)

- 類別六 間接 其他排放為 未量化

- 數據與資訊:

- 歷史性資料: 類別一 / 類別二

- 歷史性資料及情境模型: 類別三 / 類別四 / 類別五

有效性:

本證書僅對年度盤查的排放數據進行審查, 非對管理系統進行驗證

2023-06-27

台灣德國萊因技術監護顧問股份有限公司
台灣 105 台北市八德路四段 758 號 11 樓

This verification and validation is based on the information made available to TÜV Rheinland and the engagement conditions detailed above. Therefore, TÜV Rheinland cannot guarantee the accuracy or correctness of this information. TÜV Rheinland cannot be held liable by any party relying or acting upon this verification and validation

證書附件

盤查標準

ISO 14064-1:2018

證書登記號碼

CF 50591054 0001

報告號碼

48219145 001

確證與查證場址：

- **大銀微系統股份有限公司營運總部**
40852 台中市精密機械園區精科中路 6 號
- **大銀微系統股份有限公司二廠**
408018 台中市精密機械園區精科八路 7 號

查證方法：

- 場址訪視、遠端稽核、人員訪談、確認操作行為與程序、所有權評估、資料與資訊積累過程、追蹤與取樣、管制與估計測試、生產與排放間的分析程序、數據驗算與文件審查

查證意見：

合理保證

- 經修改的意見
 - 具充分且適當的證據支持實質性的排放量、移除量或儲存
 - 對實質的排放量或儲存採取適當的準則
 - 查證者欲依靠管制時，其管制有效性已被評估
 - 經修改的程序，計算方法，數據，係數或文件，對實質性，預期使用者對溫室氣體宣告的理解影響不重要 (修改的詳細項目請見查驗發現報告) 修改了：
 - 數據、係數、文件

Certificate

Inventory Standard **ISO 14064-1:2018**

Certificate Registr. No. **CF 50591054 0001**

Report No. **48219145 001**

Certificate Holder: **HIWIN MIKROSYSTEM CORP.**
No.6, Jingke Central Rd., Taichung Precision Machinery Park,
Taichung 40852, Taiwan
including the sites according to annex

Validation & Verification Site:

Validation & Verification Body: **TÜV Rheinland Taiwan Ltd.**

Validation & Verification Standard: **ISO 14064-3:2019**

Base year: - 2022 (2022.01.01~2022.12.31)

Validation & Verification year: - 2022 (2022.01.01~2022.12.31)

Programme: - Voluntary GHG scheme

Level of Assurance: - Reasonable

Consolidation methodology: - Operational Control

Materiality: - 5%

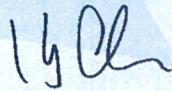
Type of Greenhouse Gases: - CO₂、CH₄、N₂O、HFCs、PFCs、SF₆、NF₃

Validation & Verification Scope: Based on the information we have received and evaluated that:

- Global warming potential (GWP): IPCC 2021, AR6
- The total carbon emission is 6,829.3722 tonnes CO₂ equivalent (tCO₂e)
- Category 1 Direct emission is 487.6161 tCO₂e
- Category 2 Indirect Imported energy emission is 4,862.9923 tCO₂e
- Category 3 Indirect Transportation emission is 532.1260 tCO₂e
- Category 4 Indirect Products used by organization emission is 881.6993 tCO₂e
- Category 5 Indirect Associated with the use of products from the organization emission is 64.9384 tCO₂e
- Category 6 Indirect Other sources emission is not quantified
- Data and information
 - Historical in nature: Category 1 / 2
 - Historical in nature with scenario models: Category 3 / 4 / 5

Validity: This certificate only reviewed the emissions data of inventory year, this certificate is not for the management systems certification.

2023-06-27


TÜV Rheinland Taiwan Ltd.
11F., No. 758, Sec. 4, Bade Rd., Taipei
105, Taiwan

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Annex to certificate

Inventory Standard **ISO 14064-1:2018**

Certificate Registr. No. **CF 50591054 0001**

Report No. **48219145 001**

Validation & Verification Site: **Hiwin Mikrosystem Corp. Headquarters**
No.6, Jingke Central Rd., Taichung Precision Machinery Park, Taichung 40852, Taiwan
Hiwin Mikrosystem Corp. Second factory area
No.7, Jingke 8th Rd., Taichung Precision Machinery Park, Taichung 408018, Taiwan

Verification Method: — Site visit, Remote audit, Interview, confirm operational behavior and procedures, Evaluation of ownership, Data and information aggregation process, trail, sampling, Control and estimate testing, Analytical procedures between production and emissions, Re-calculation and document review

Verification opinions: Reasonable Assurance

— Modified opinion

- there is sufficient and appropriate evidence to support material emissions, removals or storage;
- the criteria are applied appropriately for material emissions, removals or storage;
- the effectiveness of controls has been evaluated when the verifier intends to rely on those controls.
- Modified procedures, calculation methods, data, factors or documents, there are have insignificant impact on materiality, intended users' understanding of GHG claims, modified (Please refer to the finding report for the detail revised items):
 - Data, factors, documents