

溫室氣體排放量 查驗意見書

聲明書編號：
C774854-2024-AP-TWN-DNV

發出地點和日期：
台北，中華民國 114 年 06 月 25 日

頁數：
第 1 頁 / 共 2 頁

茲就下列組織之溫室氣體盤查管理報告書（2024 年）的盤查過程，查驗意見結果如下：

華城重電股份有限公司

查驗範圍

立恩威國際驗證股份有限公司（DNV）承接 華城重電股份有限公司（下稱「該組織」）之委託，對該組織陳述於 2024 年溫室氣體盤查管理報告書（下稱「該報告」）中之溫室氣體聲明進行查驗，查驗範圍設定為該報告所涵蓋之盤查邊界：

場址	地址
華城重電股份有限公司	台中市梧棲區南橫一路 500 號

驗證的報告邊界包括直接溫室氣體排放與移除、來自輸入能源之間接溫室氣體排放、來自運輸之間接溫室氣體排放、來自組織所使用產品之間接溫室氣體排放，以及來自與組織使用產品相關之間接溫室氣體排放或溫室氣體移除。報告邊界的進一步說明詳見附錄 A。

查驗準則與溫室氣體方案

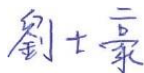
- 金管會上市櫃公司永續發展路徑圖
- ISO 14064-1:2018/CNS14064-1:2021
- 本查驗之執行過程遵循 ISO 14066:2023、ISO 14065:2020 與 ISO 14064-3:2019 等標準要求

查驗意見

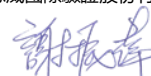
依據前述所鑑別的各项查驗準則進行查驗，DNV 認為，2025 年 5 月（最終版）發布的溫室氣體盤查報告不存在不符合上述查驗標準的重大差異。該意見是基於以下方法決定的：

- 對於直接溫室氣體排放和輸入能源的間接溫室氣體排放，該報告中資訊的可靠性得到了合理保證等級的查驗。
- 對於其他間接溫室氣體排放所涉及的資訊，使用有限保證等級進行查驗。

本案主導查驗員：
劉士豪



查驗機構簽章：
立恩威國際驗證股份有限公司



總經理
謝振璋

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查驗意見書補充內容

過程與方法

DNV 對該報告執行必要之審查程序與各階段訪談，基於所獲得之必要佐證，該報告有足夠的證據來確定符合標準的規定。

溫室氣體排放量的量化過程

本盤查報告涵蓋 2024 年 1 月 1 日至 2024 年 12 月 31 日之期間。DNV 認為，報告邊界內所識別的溫室氣體排放與移除均已納入盤查報告，並符合上述查驗標準的要求。盤查結果確保溫室氣體排放的量化是真實、透明且可測量的。

查驗過程的組織邊界

☐ 財務控制權 ☒ 營運控制權 ☐ 股權持分

查驗溫室氣體類型

☒ CO₂ ☒ CH₄ ☒ N₂O ☒ HFCs ☒ PFCs ☒ SF₆ ☒ NF₃

排放量的量化 (噸 CO₂e)

該組織選用並正確參照 IPCC AR6 WGIII 2022 所定義的全球暖化潛勢 (GWP)。

排放類別	合計
1：直接溫室氣體排放與移除	170.767 «cat1_total»
2：來自輸入能源之間接溫室氣體排放*	3,800.532
3. 來自運輸之間接溫室氣體排放	-
4. 來自組織所使用產品之間接溫室氣體排放	23,654.492
5. 來自與組織使用產品相關之間接溫室氣體排放或溫室氣體移除	-
6. 來自其他來源之間接溫室氣體排放	-

(*輸入能源之間接溫室氣體排放係根據 2024 年電力排放係數 (0.474 公斤 CO₂e/度) 計算，該係數由經濟部能源局公布)

意見之類型

☒ 未經修改的 ☐ 經修改的 ☐ 負面的

附錄 A

華城重電股份有限公司 2024 年溫室氣體盤查管理報告之報告邊界

類別	報告邊界
直接溫室氣體排放與移除	主要來自冷媒消耗，以及組織邊界內由本組織擁有或控制的其他溫室氣體排放源或吸收匯。
由輸入能源產生之間接溫室氣體排放	外購電力所產生的溫室氣體排放量。
由組織使用的產品所產生之間接溫室氣體排放	採購貨物與服務
考慮到溫室氣體報告書的預期用途，間接排放的範圍由該組織預先決定的間接排放重要性準則界定。	

Independent Verification Opinion

Verification Opinion No.:
C774853-2024-AG-TWN-DNV

Issued Place and Date:
Taipei, 25 June, 2025

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This is to verify initiate reporting of Greenhouse Gas Inventory Management Report (2024) of

Fortune Electric Extra High Voltage Co., Ltd.

Scope of Verification

DNV Business Assurance (DNV) has been commissioned by Fortune Electric Extra High Voltage Co., Ltd. (hereafter "the Organization") to perform a verification of the greenhouse gas statements of Greenhouse Gas Inventory Management Report (2024) (hereafter the "Inventory Report") in Taiwan, R.O.C. with respect to the No. 500, Nanheng 1st Rd., Wuqi Dist. Taichung 435059 Taiwan.

The Reporting Boundary for the verification including direct GHG emissions and removals, indirect GHG emissions from imported energy, indirect GHG emissions from transportation, indirect GHG emissions from products used by the Organization and indirect GHG emissions associated with the use of products from the Organization. The further descriptions for the Reporting Boundary listed in Appendix A.

Verification Criteria and GHG Programme

The verification was performed on the basis of Financial Supervisory Commission Sustainable Development Roadmap Scheme and ISO 14064-1:2018, CNS 14064-1:2021 as well as criteria given to provide for consistent GHG emission identification, calculation, monitoring and reporting. The verification was conducted in accordance with ISO 14066:2023, ISO 14065:2020, ISO14064-3:2019.

Verification Opinion

It is DNV's opinion that the Inventory Report (2024), which was published on May 2025, is free from material discrepancies in accordance with the verification criteria identified as stated above. The opinion is decided based on the following approaches,

- For the Direct (Category/Scope 1) GHG emissions and Indirect GHG emissions from imported energy (Category/Scope 2), the reliability of the information within the Inventory Report (2024) was verified with reasonable level of assurance.
- For the other indirect GHG emissions, the involved information was verified with limited level of assurance.

GHG Verifier :
Hank Liu



For the issuing office:
DNV Business Assurance Co., Ltd.



Management Representative

The Appendix forms an integral part of this Certificate, which shall be invalid when used without the Appendix.

Lack of fulfilment of conditions as set out in the Verification Agreement may render this Verification invalid. This Verification Opinion is based on the information made available to us and the engagement conditions detailed above. Hence, DNV cannot guarantee the accuracy or correctness of the information. DNV cannot be held liable by any party relying or acting upon this Verification Opinion.

The issuing office : 29Fl., No. 293, Sec. 2, Wenhua Rd., Banqiao District, New Taipei City 220, Taiwan Tel.: +886-2-82537800. <https://www.dnv.com/tw/>
DNV ZNATW-OP-F50, Rev.14, 2025-03

Supplement to Verification Opinion

Process and Methodology

The reviews of the Inventory Report and relevant documents, and the subsequent follow-up interviews have provided DNV with sufficient evidence to determine the fulfilment of stated criteria.

Quantification of Greenhouse Gas Emission

The Inventory Report covering the period 1st January, 2024 to 31st December, 2024, it is DNV's opinion that GHG emissions and removals identified within the Reporting Boundary has been included in the Inventory Report as claimed in accordance with the verification criteria identified as stated above, and results in quantification of GHG emissions that are real, transparent and measurable.

Organizational Boundary of Verification

☐ Financial Management Control; ☒ Operational Management Control; ☐ Equity Share

GHGs Verified

☒ CO₂ ☒ CH₄ ☒ N₂O ☒ HFCs ☒ PFCs ☒ SF₆ ☒ NF₃

Quantification of Emissions (in tonnes CO₂e)

The Global Warming Potential (GWP) defined in IPCC AR6 WGIII 2022 has been chosen and correctly referred by the Organization.

Category	Emission (kg CO ₂ e)
1: Direct emissions	170.767
	«cat1_total»
2: Imported energy indirect emissions*	3,800.532
3: Indirect GHG emissions from transportation	-
4: Indirect GHG emissions from products used by organization	23,654.492
5: Indirect GHG emissions associated with the use of products from the organization	-
6: Other Emission Sources	-

(*The Imported Energy Indirect Emissions was calculated based on 2024 electricity emission factor of 0.474 kg CO₂e/kwh, which was announced by Energy Administration, Ministry of Economic Affairs.)

Type of Opinion

☒ unmodified ☐ modified ☐ adverse

APENDIX A

The Reporting Boundary of Fortune Electric Extra High Voltage Co., Ltd. Greenhouse Gas Inventory Management Report (2024)

Category	Reporting Boundary
Direct GHG emissions and removals	Mainly from refrigerant emissions HFCs, other GHG sources or sinks inside organizational boundaries and that are owned or controlled by the organization.
Indirect GHG emissions from imported energy	The amount of greenhouse gas emissions produced by the input of electricity and energy.
Products used by organization	purchased goods and service emission.
The scope of other indirect emissions (other than Imported Energy with specified/limited list of sources) was defined by the Fortune Electric Extra High Voltage Co., Ltd's own pre-determined criteria for significance of indirect emissions, considering the intended use of the GHG inventory.	